



The bidi Package

Source documentation for [version 41.1](#)

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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The *bidi* Package

Bidirectional typesetting in plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$, using Xe $\text{T}_{\text{E}}\text{X}$ engine

Source documentation for [version 41.1](#)

Vafa Khalighi*

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*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3 \ifnum #1>\c@tocdepth % then omit
4 \else
5 \par \addpenalty\@secpenalty\addvspace{#2}%
6 \begingroup \hyphenpenalty\@M
7 \ifempty{#4}{%
8 \@tempdima\csname r@tocindent\number#1\endcsname\relax
9 }{%
10 \@tempdima#4\relax
11 }%
12 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\
13 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16 \nobreak
17 \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24 \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27 \kern-.4\p@
28 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29 \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35 \insert\footins{%
36 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37 \reset@font%
38 \bidi@@footnotetext@font% \normalfont\footnotesize
39 \interlinepenalty\interfootnotelinepenalty
40 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41 \floatingpenalty\@MM \hsize\columnwidth
42 \@parboxrestore \parindent\normalparindent \sloppy
43 \protected@edef\@currentlabel{%
44 \csname p@footnote\endcsname\@thefnmark}%
45 \@makefnmark%
46 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
47
48 \long\def\@RTLfootnotetext#1{%
49 \insert\footins{%
50 \@RTLtrue%
51 \reset@font%
52 \bidi@@RTLfootnotetext@font% \normalfont\footnotesize
```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefntext{%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefntext{%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111 \@topnum\z@ % this prevents figures from falling at the top of page 1
112 \setcopyright
113 \thispagestyle{firstpage}% this sets first page specifications
114 \uppercase\shorttitle
115 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116 \else \andify\shortauthors
117 \fi
118 \@maketitle@hook
119 \begingroup
120 \@maketitle
121 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
122 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123 \edef\@tempa{%
124 \@nx\markboth{\the\toks4
125 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126 \@tempa
127 \endgroup
128 \c@footnote\z@
129 \cleartopmattertags
130 }

```

2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133 \def\@tempa{#2}%
134 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135 \def\@tempa{#3}%
136 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137 \ifnum\col@number<\@ne
138 \PackageWarning{adjmulticol}%
139 {Using '\number\col@number'
140 columns doesn't seem a good idea.^^J
141 I therefore use one columns instead}%
142 \col@number\@ne\fi
143 \ifnum\col@number>10
144 \PackageError{adjmulticol}%
145 {Too many columns}%
146 {Current implementation doesn't
147 support more than 10 columns.%
148 \MessageBreak
149 I therefore use 10 columns instead}%
150 \col@number10 \fi
151 \ifx\@footnotetext\mult@footnotetext\else
152 \let\orig@footnotetext\@footnotetext
153 \let\@footnotetext\mult@footnotetext
154 \fi
155 \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156 \let\orig@LTRfootnotetext\@LTRfootnotetext
157 \let\@LTRfootnotetext\mult@LTRfootnotetext

```




```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic@c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
199 }}{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208 \ifnum #1>\c@tocdepth % then omit
209 \else
210 \par \addpenalty\@secpenalty\addvspace{#2}%
211 \begingroup \hyphenpenalty\@M
212 \@ifempty{#4}{%
213 \@tempdima\csname r@tocindent\number#1\endcsname\relax
214 }{%
215 \@tempdima#4\relax
216 }%
217 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip
218 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221 \nobreak
222 \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229 \columnseprule\z@ \columnsep 35\p@
230 \@indextitlestyle
231 \thispagestyle{plain}%
232 \let\item\@idxitem
233 \parindent\z@ \parskip\z@\@plus.3\p@\relax
234 \if@RTL\raggedleft\else\raggedright\fi
235 \hyphenpenalty\@M
236 \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241 \kern-.4\p@
242 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243 \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248 \insert\footins{%
249 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
250 \reset@font%
251 \bidi@footnotetext@font% \normalfont\footnotesize
252 \interlinepenalty\interfootnotelinepenalty
253 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254 \floatingpenalty\@MM \hsize\columnwidth
255 \@parboxrestore \parindent\normalparindent \sloppy
256 \protected@edef\@currentlabel{%
257 \csname p@footnote\endcsname\@thefnmark}%
258 \@makefnmark%
259 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesepp \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnstext{%
273       \rule\z@\footnotesepp\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesepp \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnstext{%
288       \rule\z@\footnotesepp\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@LTRbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
309 \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312 \begingroup
313 \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

5 File `amsmath-xetex-bidi.def`

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\@nocounterr{#2}}{%
341 \ifundefined{c@#3}{\@nocnterr{#3}}{%
342 \addtoreset{#2}{#3}%
343 \xp\xdef\csname the#2\endcsname{%
344 \xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

6 File `amstext-xetex-bidi.def`

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```

7 File `amsthm-xetex-bidi.def`



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2024/12/10 v0.5 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
387 \def\@tabular{%
388 \leavevmode
389 \hbox \bgroup\if@RTLtab\beginR \fi
390 \UseTaggingSocket{tbl/hmode/begin}%
391 $\col@sep\tabc@sep \let\d@llarbegin\beginR \let\d@llarend\endR
392 \let\d@llarend\endgroup
393 \@tabarray}
394 \def\endtabular{\endarray\m@th $
395 \UseTaggingSocket{tbl/hmode/end}%
396 \if@RTLtab\endR\fi\egroup
397 }
398 \expandafter\let\csname endtabular*\endcsname=\endtabular
399 \ExplSyntaxOn
400 \def\@array[#1]#2{
401 \@tempdima \ht \strutbox
402 \advance \@tempdima by\extrarowheight
403 \setbox \@arstrutbox \hbox{\vrule
404 \@height \arraystretch \@tempdima
405 \@depth \arraystretch \dp \strutbox
406 \@width \z@}%
407 \tbl_save_outer_table_cols:
408 \beginR
409 \mkpream{#2}%

```



```

410 \tbl_count_table_cols:
411 \xdef\@preamble{
412   \noexpand \ar@ialign
413   \@halignto
414   \bgroup \@arstrut
415   \UseTaggingSocket{tbl/row/begin}
416   \tbl_init_cell_data_for_row:
417   \@preamble
418   \tabskip \z@ \cr}
419 \endgroup
420 \@arrayleft
421 \if #1\vtop \else \if#1b\vbox \else \vcenter \fi \fi
422 \bgroup
423 \let \@sharp ##\let \protect \relax
424 \lineskip \z@
425 \baselineskip \z@
426 \mathsurround \z@
427 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
428 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
429 \UseTaggingSocket{tbl/init}
430 \@preamble
431 }
432 \ExplSyntaxOff
433 \let\@array\@array
434 \ExplSyntaxOn
435 \def\endarray {
436   \tbl_crr:n{endarray} \egroup
437   \UseTaggingSocket{tbl/finalize}
438   \tbl_restore_outer_cell_data:
439   \if@RTLtab\egroup\endR\egroup\fi
440   \egroup
441   \@arrayright \gdef\@preamble{}%
442 }
443 \ExplSyntaxOff
444 \def\array{\col@sep\arraycolsep
445   \def\d@llarbegin{${}\let\d@llarend\d@llarbegin\def\@halignto{}}%
446   \@RTLtabfalse\@tabarray}

```

9 File article-xetex-bidi.def

```

447 \ProvidesFile{article-xetex-bidi.def}[2025/01/03 v0.8 bidi adaptations for standard article]
448 \IfClassLoadedT{svmult}{\endinput}
449 \if@titlepage
450   \renewcommand\maketitle{\begin{titlepage}%
451     \let\footnotesize\small
452     \let\right@footnoterule\relax
453     \let\left@footnoterule\relax
454     \let\textwidth@footnoterule\relax
455     \let \footnote \thanks
456     \let \LTRfootnote \LTRthanks
457     \let \RTLfootnote \RTLthanks
458     \null\vfil
459     \vskip 60\p@
460     \begin{center}%

```



```

461   {\LARGE \@title \par}%
462   \vskip 3em%
463   {\large
464     \lineskip .75em%
465     \begin{tabular}[t]{c}%
466       \@author
467     \end{tabular}\par}%
468   \vskip 1.5em%
469   {\large \@date \par}%           % Set date in \large size.
470 \end{center}\par
471 \@thanks
472 \vfil\null
473 \end{titlepage}%
474 \setcounter{footnote}{0}%
475 \global\let\thanks\relax
476 \global\let\LTRthanks\relax
477 \global\let\RTLthanks\relax
478 \global\let\maketitle\relax
479 \global\let\@thanks\@empty
480 \global\let\@author\@empty
481 \global\let\@date\@empty
482 \global\let\@title\@empty
483 \global\let\title\relax
484 \global\let\author\relax
485 \global\let\date\relax
486 \global\let\and\relax
487 }
488 \else
489 \renewcommand\maketitle{\par
490   \begingroup
491     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
492     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
493     \long\def\@makefntext##1{\parindent 1em\noindent
494       \hb@xt@1.8em{%
495         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
496     \if@twocolumn
497       \ifnum \col@number=\@one
498         \@maketitle
499       \else
500         \twocolumn[\@maketitle]%
501       \fi
502     \else
503       \newpage
504       \global\@topnum\z@   % Prevents figures from going at top of page.
505       \@maketitle
506     \fi
507     \thispagestyle{plain}\@thanks
508   \endgroup
509   \setcounter{footnote}{0}%
510   \global\let\thanks\relax
511   \global\let\LTRthanks\relax
512   \global\let\RTLthanks\relax
513   \global\let\maketitle\relax
514   \global\let\@maketitle\relax

```



```

515 \global\let\thanks\@empty
516 \global\let\author\@empty
517 \global\let\@date\@empty
518 \global\let\@title\@empty
519 \global\let\title\relax
520 \global\let\author\relax
521 \global\let\date\relax
522 \global\let\and\relax
523 }
524 \def\@maketitle{%
525 \newpage
526 \null
527 \vskip 2em%
528 \begin{center}%
529 \let \footnote \thanks
530 \let \LTRfootnote \LTRthanks
531 \let \RTLfootnote \RTLthanks
532 {\LARGE \@title \par}%
533 \vskip 1.5em%
534 {\large
535 \lineskip .5em%
536 \begin{tabular}[t]{c}%
537 \@author
538 \end{tabular}\par}%
539 \vskip 1em%
540 {\large \@date}%
541 \end{center}%
542 \par
543 \vskip 1.5em}
544 \fi
545 \renewcommand*\l@part[2]{%
546 \ifnum \c@tocdepth >-2\relax
547 \addpenalty\@secpenalty
548 \addvspace{2.25em \@plus\p@}%
549 \setlength\@tempdima{3em}%
550 \begingroup
551 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
552 \parfillskip -\@pnumwidth
553 {\leavevmode
554 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
555 \nobreak
556 \if@compatibility
557 \global\@nobreaktrue
558 \everypar{\global\@nobreakfalse\everypar{}}%
559 \fi
560 \endgroup
561 \fi}
562 \renewcommand*\l@section[2]{%
563 \ifnum \c@tocdepth >\z@
564 \addpenalty\@secpenalty
565 \addvspace{1.0em \@plus\p@}%
566 \setlength\@tempdima{1.5em}%
567 \begingroup
568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```




```

569     \parfillskip -\@pnumwidth
570     \leavevmode \bfseries
571     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
572     \hskip -\if@RTL\righskip\else\leftskip\fi
573     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
574   \endgroup
575 \fi}
576 \renewcommand\left@footnoterule{%
577   \kern-3\p@
578   \hrule\@width.4\columnwidth
579   \kern2.6\p@}
580 \renewcommand\right@footnoterule{%
581   \kern-3\p@
582   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
583   \kern2.6\p@}
584 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
585 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
586 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
587 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
588 \def\@part[#1]#2{%
589   \ifnum \c@secnumdepth >\m@ne
590     \refstepcounter{part}%
591     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
592   \else
593     \addcontentsline{toc}{part}{#1}%
594   \fi
595   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
596     \interlinepenalty \@M
597     \normalfont
598     \ifnum \c@secnumdepth >\m@ne
599       \Large\bfseries \partname\nobreakspace\thepart
600     \par\nobreak
601     \fi
602     \huge \bfseries #2%
603     \markboth{}{\par}%
604     \nobreak
605     \vskip 3ex
606     \@afterheading}
607 \bidi@patchcmd\@spart\raggedright{%
608   \if@RTL\raggedleft\else\raggedright\fi
609 }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}
610 \renewenvironment{thebibliography}[1]
611   {\section*\refname}%
612   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
613   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
614   \bidi@thebibliography@font@hook%
615   \list{\@biblabel{\@arabic\c@enumiv}}%
616     {\settowidth\labelwidth{\@biblabel{#1}}%
617     \leftmargin\labelwidth
618     \advance\leftmargin\labelsep
619     \@openbib@code
620     \usecounter{enumiv}%
621     \let\p@enumiv\@empty
622     \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

623     \sloppy
624     \clubpenalty4000
625     \@clubpenalty \clubpenalty
626     \widowpenalty4000%
627     \sfcode`.\@m}
628     {\def\@noitemerr
629       {\@latex@warning{Empty `thebibliography' environment}}}%
630     \endlist}
631 \renewenvironment{theindex}
632     {\if@twocolumn
633       \@restonecolfalse
634     \else
635       \@restonecoltrue
636     \fi
637     \columnseprule \z@
638     \columnsep 35\p@
639     \twocolumn[\section*{\indexname}]%
640     \@mkboth{\MakeUppercase\indexname}%
641             {\MakeUppercase\indexname}%
642     \thispagestyle{plain}\parindent\z@
643     \parskip\z@ \@plus .3\p@\relax
644     \let\item\@idxitem}
645     {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File `artikel1-xetex-bidi.def`

```

646 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
647 \renewenvironment{theindex}{%
648   \if@twocolumn
649     \@restonecolfalse
650   \else
651     \@restonecoltrue
652   \fi
653   \columnseprule \z@
654   \columnsep 35\p@
655   \twocolumn[\section*{\indexname}]%
656   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
657   \thispagestyle{plain}\parindent\z@
658   \parskip\z@ \@plus .3\p@\relax
659   \let\item\@idxitem
660 }{%
661   \if@restonecol\onecolumn\else\clearpage\fi}
662 \renewcommand*\head@style{%
663   \interlinepenalty \@M
664   \hyphenpenalty=\@M \exhyphenpenalty=\@M
665   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
666 \if@titlepage
667   \renewenvironment{abstract}{%
668     \titlepage
669     \null\vfil
670     \section*{\SectFont\abstractname}
671     \noindent\ignorespaces}
672   {\par\vfil\null\endtitlepage}
673 \else

```



```

674 \renewenvironment{abstract}{%
675     \if@twocolumn
676         \section*{\abstractname}%
677     \else
678         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
679         \section*{\small\SectFont\abstractname}%
680         \noindent\ignorespaces
681     \fi}
682     {\if@twocolumn\else\par\egroup\fi}
683 \fi
684 \renewcommand*\@regtocline[3]{%
685     \ifnum #1>\c@tocdepth
686     \else
687         \vskip\z@\@plus.2\p@
688         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
689         \if@RTL\rightskip\else\leftskip\fi\unitindent
690         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
691         \parfillskip\z@
692         \@tempdima\unitindent
693         \parindent\z@
694         \leavevmode
695         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
696         \hskip 1em \nobreak{\slshape #3}\par
697     }%
698     \fi}
699 \if@oldtoc
700 \renewcommand*\l@part[2]{%
701     \ifnum \c@tocdepth >-2\relax
702         \addpenalty\@secpenalty
703         \addvspace{2.25em \@plus\p@}%
704         \begingroup
705             \setlength\@tempdima{3em}%
706             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
707             \parfillskip -\@pnumwidth
708             {\leavevmode
709             \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
710             \nobreak
711             \if@compatibility
712             \global\@nobreaktrue
713             \everypar{\global\@nobreakfalse\everypar{}}%
714         \fi
715     \endgroup
716     \fi}
717 \else
718     \renewcommand*\l@part{%
719         \ifnum \c@tocdepth >-2\relax
720             \addpenalty\@secpenalty
721             \addvspace{2.25em \@plus \p@}%
722             \@regtocline{0}%
723         \fi}
724 \fi
725 \if@oldtoc
726 \renewcommand*\l@section[2]{%
727     \addpenalty\@secpenalty

```



```

728 \addvspace{1.0em \@plus\p@}%
729 \setlength\@tempdima{1.5em}%
730 \begingroup
731 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
732 \parfillskip -\@pnumwidth
733 \leavevmode \bfseries
734 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
735 \hskip -\if@RTL\rightskip\else\leftskip\fi
736 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
737 \endgroup}
738 \else
739 \renewcommand*\l@section{\@regtocline{1}}
740 \fi
741 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
742 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
743 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
744 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
745 \renewenvironment{thebibliography}[1]
746 {\section*\refname}%
747 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
748 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
749 \bidi\@thebibliography@font@hook%
750 \list{\@biblabel{\@arabic\c@enumiv}}%
751 {\settowidth\labelwidth{\@biblabel{#1}}%
752 \leftmargin\labelwidth
753 \advance\leftmargin\labelsep
754 \@openbib@code
755 \usecounter{enumiv}%
756 \let\p@enumiv\@empty
757 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
758 \sloppy\clubpenalty4000\widowpenalty4000%
759 \sfcode\.\@m}
760 {\def\@noitemerr
761 {\@latex@warning{Empty `thebibliography' environment}}}%
762 \endlist}
763 \renewcommand*\left@footnoterule{%
764 \kern-3\p@
765 \kern.5\baselineskip
766 \hrule\@width\unitindent
767 \kern.4\baselineskip
768 }
769 \renewcommand*\right@footnoterule{%
770 \kern-3\p@
771 \kern.5\baselineskip
772 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
773 \kern.4\baselineskip}
774 \if@titlepage
775 \renewcommand*\TitleFont{\rmfamily}
776 \renewcommand*\maketitle{%
777 \begin{titlepage}%
778 \let\footnotesize\small
779 \let\right@footnoterule\relax
780 \let\left@footnoterule\relax
781 \let\textwidth\footnoterule\relax

```



```

782 \let \footnote \thanks
783 \long\def\@makefntext##1{\parindent\z@
784 \def\labelitemi{\textendash}\@revlabeltrue
785 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
786 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
787 \if@compatibility\setcounter{page}{0}\fi
788 \null\vfil
789 \vskip 60\p@
790 \begin{center}%
791 \TitleFont
792 {\LARGE \def\{\penalty -\@M}
793 \if@allcaps
794 \expandafter\uc@nothanks\@title\thanks\relax
795 \else
796 \@title
797 \fi\par}%
798 \vskip 3em%
799 {\large
800 \lineskip .75em \parindent\z@
801 \begin{tabular}[t]{c}%
802 \if@allcaps
803 \expandafter\uc@authornothanks\@author\and\relax
804 \else
805 \@author
806 \fi
807 \end{tabular}\par}%
808 \vskip 1.5em%
809 {\large
810 \if@allcaps
811 \uppercase\expandafter{\@date}%
812 \else
813 \@date
814 \fi\par}%
815 \end{center}\par
816 \@thanks
817 \vfil\null
818 \end{titlepage}%
819 \setcounter{footnote}{0}%
820 \global\let\thanks\relax
821 \global\let\maketitle\relax
822 \global\let\@thanks\@empty
823 \global\let\@author\@empty
824 \global\let\@title\@empty
825 \global\let\@date\@empty
826 \global\let\title\relax
827 \global\let\author\relax
828 \global\let\date\relax
829 \global\let\and\relax
830 }
831 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
832 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
833 \futurelet\@tempa\uc@ax}
834 \def\uc@ax{%
835 \ifx\@tempa\relax

```



```

836 \else
837   \ \ \andname \ \ \expandafter\uc@authornothanks
838 \fi}
839 \def\uc@tx{\ifx\@tempa\relax
840   \else \expandafter\uc@ty \fi}
841 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
842 \else
843 \renewcommand*\maketitle{\par
844 \begin{group}
845   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
846   \def\@makefnmark{\rlap{%
847     \@textsuperscript{\normalfont\@thefnmark}}}%
848   \long\def\@makefntext{\@xmakefntext{%
849     \@textsuperscript{\normalfont\@thefnmark}}}%
850   \if@twocolumn
851     \ifnum \col@number=\@ne
852       \@maketitle
853     \else
854       \twocolumn[\@maketitle]%
855     \fi
856   \else
857     \newpage
858     \global\@topnum\z@
859     \@maketitle
860   \fi
861   \thispagestyle{plain}\@thanks
862 \end{group}
863 \setcounter{footnote}{0}%
864 \global\let\thanks\relax
865 \global\let\maketitle\relax
866 \global\let\@maketitle\relax
867 \global\let\@thanks\@empty
868 \global\let\@author\@empty
869 \global\let\@title\@empty
870 \global\let\@date\@empty
871 \global\let\title\relax
872 \global\let\author\relax
873 \global\let\date\relax
874 \global\let\and\relax
875 }
876 \def\@maketitle{%
877 \newpage
878 \null
879 \vskip 2em%
880 \begin{center}%
881   \let \footnote \thanks
882   {\LARGE \TitleFont \@title \par}%
883   \vskip 1.5em%
884   {\large \TitleFont
885     \lineskip .5em%
886     \begin{tabular}[t]{c}%
887       \@author
888     \end{tabular}\par}%
889   \vskip 1em%

```



```

890   {\large \TitleFont \@date}%
891 \end{center}%
892 \par
893 \vskip 1.5em}
894 \fi

```

11 File artikel2-xetex-bidi.def

```

895 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
896 \renewenvironment{theindex}{%
897   \if@twocolumn
898     \@restonecolfalse
899   \else
900     \@restonecoltrue
901   \fi
902   \columnseprule \z@
903   \columnsep 35\p@
904   \twocolumn[\section*{\indexname}]%
905   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
906   \thispagestyle{plain}\parindent\z@
907   \parskip\z@ \@plus .3\p@\relax
908   \let\item\@idxitem
909   }{%
910   \if@restonecol\onecolumn\else\clearpage\fi}
911 \renewcommand*{\@regtocline}[3]{%
912   \ifnum #1>\c@tocdepth
913   \else
914     \vskip\z@\@plus.2\p@
915     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
916     \if@RTL\righskip\else\leftskip\fi\unitindent
917     \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
918     \parfillskip\z@
919     \@tempdima\unitindent
920     \advance\@tempdima by \othermargin
921     \parindent\z@
922     \leavevmode
923     \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
924     \hskip 1em \nobreak{\slshape #3}\par
925     }%
926   \fi}
927 \if@oldtoc
928 \renewcommand*\l@section[2]{%
929   \addpenalty\@secpenalty
930   \addvspace{1.0em \@plus\p@}%
931   \setlength\@tempdima{1.5em}%
932   \begingroup
933   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
934   \parfillskip -\@pnumwidth
935   \leavevmode \bfseries
936   \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
937   \hskip -\if@RTL\righskip\else\leftskip\fi
938   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
939   \endgroup}
940 \else

```



```

941 \renewcommand*\l@section{\@regtocline{1}}
942 \fi
943 \if@oldtoc
944 \renewcommand*\l@part[2]{%
945 \ifnum \c@tocdepth >-2\relax
946 \addpenalty\@secpenalty
947 \addvspace{2.25em \@plus\p@}%
948 \begingroup
949 \setlength\@tempdima{3em}%
950 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
951 \parfillskip -\@pnumwidth
952 {\leavevmode
953 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
954 \nobreak
955 \if@compatibility
956 \global\@nobreaktrue
957 \everypar{\global\@nobreakfalse\everypar{}}%
958 \fi
959 \endgroup
960 \fi}
961 \else
962 \renewcommand*\l@part{%
963 \ifnum \c@tocdepth >-2\relax
964 \addpenalty\@secpenalty
965 \addvspace{2.25em \@plus\p@}%
966 \@regtocline{0}%
967 \fi}
968 \fi
969 \renewcommand*\head@style{%
970 \interlinepenalty \@M
971 \hyphenpenalty=\@M \exhyphenpenalty=\@M
972 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel relax}
973 \if@titlepage
974 \renewenvironment{abstract}{%
975 \titlepage
976 \null\vfil
977 \section*{\SectFont\abstractname}%
978 \noindent\ignorespaces}
979 {\par\vfil\null\endtitlepage}
980 \else
981 \renewenvironment{abstract}{%
982 \if@twocolumn
983 \section*{\abstractname}%
984 \else
985 \section*{\hskip\unitindent\small\SectFont\abstractname}%
986 \list*{\setlength\listparindent{\unitindent}%
987 \setlength\parindent {\z@}%
988 \setlength\leftmargin {\unitindent}%
989 \setlength\rightmargin {\unitindent}%
990 \setlength\parsep {\z@}}%
991 \item[]%
992 \fi}
993 {\if@twocolumn\else\par\endlist\fi}
994 \fi

```




```

995 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
996 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
997 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
998 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
999 \renewcommand*\left@footnoterule{%
1000 \kern-3\p@
1001 \hrule\@width 3\unitindent
1002 \kern 2.6\p@
1003 }
1004 \renewcommand*\right@footnoterule{%
1005 \kern-3\p@
1006 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1007 \kern 2.6\p@}
1008 \renewenvironment{thebibliography}[1]
1009   {\section*\refname}%
1010   \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1011   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLBibitems\@RTLtrue\else\fi\fi
1012   \bidi@thebibliography@font@hook%
1013   \list{\@biblabel{\@arabic\c@enumiv}}%
1014     {\settowidth\labelwidth{\@biblabel{#1}}%
1015     \leftmargin\labelwidth
1016     \advance\leftmargin\labelsep
1017     \@openbib@code
1018     \usecounter{enumiv}%
1019     \let\p@enumiv\@empty
1020     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1021   \sloppy\clubpenalty4000\widowpenalty4000%
1022   \sfcode\.\@m}
1023   {\def\@noitemerr
1024     {\@latex@warning{Empty `thebibliography' environment}}%
1025     \endlist}
1026 \if@titlepage
1027 \renewcommand*\TitleFont{\rmfamily}
1028 \renewcommand*\maketitle{%
1029 \begin{titlepage}%
1030 \let\footnotesize\small
1031 \let\right@footnoterule\relax
1032 \let\left@footnoterule\relax
1033 \let\textwidth@footnoterule\relax
1034 \let \footnote \thanks
1035 \long\def\@makefntext##1{\parindent\z@
1036 \def\labelitemi{\textendash}\@revlabeltrue
1037 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1038 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1039 \if@compatibility\setcounter{page}{0}\fi
1040 \null\vfil
1041 \vskip 60\p@
1042 \begin{center}%
1043 \TitleFont
1044 {\LARGE \def\{\{\penalty -\@M}
1045 \if@allcaps
1046 \expandafter\uc@nothanks\@title\thanks\relax
1047 \else
1048 \@title

```



```

1049     \fi\par}%
1050     \vskip 3em%
1051     {\large
1052     \lineskip .75em \parindent\z@
1053     \begin{tabular}[t]{c}%
1054     \if@allcaps
1055     \expandafter\uc@authornothanks\@author\and\relax
1056     \else
1057     \@author
1058     \fi
1059     \end{tabular}\par}%
1060     \vskip 1.5em%
1061     {\large
1062     \if@allcaps
1063     \uppercase\expandafter{\@date}%
1064     \else
1065     \@date
1066     \fi\par}%
1067     \end{center}\par
1068     \@thanks
1069     \vfil\null
1070 \end{titlepage}%
1071 \setcounter{footnote}{0}%
1072 \global\let\thanks\relax
1073 \global\let\maketitle\relax
1074 \global\let\@thanks\@empty
1075 \global\let\@author\@empty
1076 \global\let\@title\@empty
1077 \global\let\@date\@empty
1078 \global\let\title\relax
1079 \global\let\author\relax
1080 \global\let\date\relax
1081 \global\let\and\relax
1082 }
1083 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1084 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1085     \futurelet\@tempa\uc@ax}
1086 \def\uc@ax{%
1087     \ifx\@tempa\relax
1088     \else
1089     \ \andname \ \ \expandafter\uc@authornothanks
1090     \fi}
1091 \def\uc@tx{\ifx\@tempa\relax
1092     \else \expandafter\uc@ty \fi}
1093 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1094 \else
1095 \renewcommand*\maketitle{\par
1096     \begingroup
1097     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1098     \long\def\@makefntext##1{\parindent\z@
1099     \def\labelitemi{\textendash}%
1100     \leavevmode\hb@xt@.5\unitindent{%
1101     \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1102     \iftwocolumn

```



```

1103     \ifnum \col@number=\@ne
1104         \@maketitle
1105     \else
1106         \twocolumn[\@maketitle]%
1107     \fi
1108 \else
1109     \newpage
1110     \global\@topnum\z@
1111     \@maketitle
1112 \fi
1113 \thispagestyle{plain}\@thanks
1114 \endgroup
1115 \setcounter{footnote}{0}%
1116 \global\let\thanks\relax
1117 \global\let\maketitle\relax
1118 \global\let\@maketitle\relax
1119 \global\let\@thanks\@empty
1120 \global\let\@author\@empty
1121 \global\let\@title\@empty
1122 \global\let\@date\@empty
1123 \global\let\title\relax
1124 \global\let\author\relax
1125 \global\let\date\relax
1126 \global\let\and\relax
1127 }
1128 \def\@maketitle{%
1129     \newpage
1130     \null
1131     \vskip 2em%
1132     \begin{center}%
1133         \let \footnote \thanks
1134         {\LARGE \TitleFont \@title \par}%
1135         \vskip 1.5em%
1136         {\large \TitleFont
1137             \lineskip .5em%
1138             \begin{tabular}[t]{c}%
1139                 \@author
1140             \end{tabular}\par}%
1141         \vskip 1em%
1142         {\large \TitleFont \@date}%
1143     \end{center}%
1144     \par
1145     \vskip 1.5em}
1146 \fi

```

12 File artikel3-xetex-bidi.def

```

1147 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1148 \renewenvironment{theindex}{%
1149     \if@twocolumn
1150         \@restonecolfalse
1151     \else
1152         \@restonecoltrue
1153     \fi

```



```

1154 \columnseprule \z@
1155 \columnsep 35\p@
1156 \twocolumn[\section*{\indexname}]%
1157 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1158 \thispagestyle{plain}\parindent\z@
1159 \parskip\z@ \@plus .3\p@\relax
1160 \let\item\@idxitem
1161 }{%
1162 \if@restonecol\onecolumn\else\clearpage\fi}
1163 \renewcommand*\head@style{%
1164   \interlinepenalty \@M
1165   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1166   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1167 \renewcommand*\@regtocline[3]{%
1168   \ifnum #1>\c@tocdepth
1169   \else
1170     \vskip\z@\@plus.2\p@
1171     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1172     \if@RTL\rightskip\else\leftskip\fi\unitindent
1173     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1174     \parfillskip\z@
1175     \@tempdima\unitindent
1176     \parindent\z@
1177     \leavevmode
1178     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1179     \hskip 1em \nobreak{\slshape #3}\par
1180     }%
1181   \fi}
1182 \if@oldtoc
1183 \renewcommand*\l@part[2]{%
1184   \ifnum \c@tocdepth >-2\relax
1185     \addpenalty\@secpenalty
1186     \addvspace{2.25em \@plus\p@}%
1187     \begingroup
1188       \setlength\@tempdima{3em}%
1189       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1190       \parfillskip -\@pnumwidth
1191       {\leavevmode
1192         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1193         \nobreak
1194         \if@compatibility
1195           \global\@nobreaktrue
1196           \everypar{\global\@nobreakfalse\everypar{}}%
1197         \fi
1198       \endgroup
1199   \fi}
1200 \else
1201 \renewcommand*\l@part{%
1202   \ifnum \c@tocdepth >-2\relax
1203     \addpenalty\@secpenalty
1204     \addvspace{2.25em \@plus \p@}%
1205     \@regtocline{0}%
1206   \fi}
1207 \fi

```



```

1208
1209 \if@oldtoc
1210 \renewcommand*\l@section[2]{%
1211     \addpenalty\@secpenalty
1212     \addvspace{1.0em \@plus\p@}%
1213     \setlength\@tempdima{1.5em}%
1214     \begingroup
1215     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1216     \parfillskip -\@pnumwidth
1217     \leavevmode \bfseries
1218     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1219     \hskip -\if@RTL\rightskip\else\leftskip\fi
1220     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1221     \endgroup}
1222 \else
1223     \renewcommand*\l@section{\@regtocline{1}}
1224 \fi
1225 \if@titlepage
1226 \renewenvironment{abstract}{%
1227     \titlepage
1228     \null\vfil
1229     \section*\SectFont\abstractname}%
1230 \noindent\ignorespaces}
1231 {\par\vfil\null\endtitlepage}
1232 \else
1233 \renewenvironment{abstract}{%
1234     \if@twocolumn
1235         \section*\abstractname}%
1236 \else
1237     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1238     \section*\small\SectFont\abstractname}%
1239 \noindent\ignorespaces
1240 \fi}
1241 {\if@twocolumn\else\par\egroup\fi}
1242 \fi
1243 \renewcommand*\left@footnoterule{%
1244     \kern-3\p@
1245     \kern.5\baselineskip
1246     \hrule\@width\unitindent
1247     \kern.4\baselineskip
1248 }
1249 \renewcommand*\right@footnoterule{%
1250     \kern-3\p@
1251     \kern.5\baselineskip
1252     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1253     \kern.4\baselineskip}
1254 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1255 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1256 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1257 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1258 \renewenvironment{thebibliography}[1]
1259     {\section*\refname}%
1260     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1261     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

1262 \bidi@thebibliography@font@hook%
1263 \list{\@biblabel{\@arabic\c@enumiv}}%
1264   {\settoheight\labelwidth{\@biblabel{#1}}%
1265   \leftmargin\labelwidth
1266   \advance\leftmargin\labelsep
1267   \@openbib@code
1268   \usecounter{enumiv}}%
1269   \let\p@enumiv\@empty
1270   \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1271 \sloppy\clubpenalty4000\widowpenalty4000%
1272 \sfcode`. \@m}
1273 {\def\@noitemerr
1274  {\@latex@warning{Empty `thebibliography' environment}}}%
1275 \endlist}
1276 \if@titlepage
1277 \renewcommand*\TitleFont{\rmfamily}
1278 \renewcommand*\maketitle{%
1279 \begin{titlepage}%
1280 \let\footnotesize\small
1281 \let\right@footnoterule\relax
1282 \let\left@footnoterule\relax
1283 \let\textwidth@footnoterule\relax
1284 \let \footnote \thanks
1285 \long\def\@makefnmark##1{\parindent\z@
1286   \def\labelitemi{\textendash}\@revlabeltrue
1287   \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1288 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1289 \if@compatibility\setcounter{page}{0}\fi
1290 \null\vfil
1291 \vskip 60\p@
1292 \begin{center}%
1293 \TitleFont
1294 {\LARGE \def\{\{\penalty -\@M}
1295 \if@allcaps
1296 \expandafter\uc@nothanks\@title\thanks\relax
1297 \else
1298 \@title
1299 \fi\par}%
1300 \vskip 3em%
1301 {\large
1302 \lineskip .75em \parindent\z@
1303 \begin{tabular}[t]{c}%
1304 \if@allcaps
1305 \expandafter\uc@authornothanks\@author\and\relax
1306 \else
1307 \@author
1308 \fi
1309 \end{tabular}\par}%
1310 \vskip 1.5em%
1311 {\large
1312 \if@allcaps
1313 \uppercase\expandafter{\@date}%
1314 \else
1315 \@date

```



```

1316     \fi\par}%
1317     \end{center}\par
1318     \@thanks
1319     \vfil\null
1320 \end{titlepage}%
1321 \setcounter{footnote}{0}%
1322 \global\let\thanks\relax
1323 \global\let\maketitle\relax
1324 \global\let\@thanks\@empty
1325 \global\let\@author\@empty
1326 \global\let\@title\@empty
1327 \global\let\@date\@empty
1328 \global\let\title\relax
1329 \global\let\author\relax
1330 \global\let\date\relax
1331 \global\let\and\relax
1332 }
1333 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1334 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1335     \futurelet\@tempa\uc@ax}
1336 \def\uc@ax{%
1337     \ifx\@tempa\relax
1338     \else
1339         \ \andname \ \expandafter\uc@authornothanks
1340     \fi}
1341 \def\uc@tx{\ifx\@tempa\relax
1342     \else \expandafter\uc@ty \fi}
1343 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1344 \else
1345 \renewcommand*\maketitle{\par
1346     \begingroup
1347     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1348     \def\@makefnmark{\rlap{%
1349         \@textsuperscript{\normalfont\@thefnmark}}}%
1350     \long\def\@makefntext{\@xmakefntext{%
1351         \@textsuperscript{\normalfont\@thefnmark}}}%
1352     \if@twocolumn
1353         \ifnum \col@number=\@one
1354             \@maketitle
1355         \else
1356             \twocolumn[\@maketitle]%
1357         \fi
1358     \else
1359         \newpage
1360         \global\@topnum\z@
1361         \@maketitle
1362     \fi
1363     \thispagestyle{plain}\@thanks
1364 \endgroup
1365 \setcounter{footnote}{0}%
1366 \global\let\thanks\relax
1367 \global\let\maketitle\relax
1368 \global\let\@maketitle\relax
1369 \global\let\@thanks\@empty

```



```

1370 \global\let\@author\@empty
1371 \global\let\@title\@empty
1372 \global\let\@date\@empty
1373 \global\let\title\relax
1374 \global\let\author\relax
1375 \global\let\date\relax
1376 \global\let\and\relax
1377 }
1378 \def\@maketitle{%
1379 \newpage
1380 \null
1381 \vskip 2em%
1382 \if@titlecentered
1383 \begin{center}%
1384 \let \footnote \thanks
1385 {\LARGE \TitleFont \@title \par}%
1386 \vskip 1.5em%
1387 {\large \TitleFont
1388 \lineskip .5em%
1389 \begin{tabular}[t]{c}%
1390 \@author
1391 \end{tabular}\par}%
1392 \vskip 1em%
1393 {\large \TitleFont \@date}%
1394 \end{center}%
1395 \else
1396 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1397 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1398 \def\and{%% \begin{tabular} has already started
1399 \end{tabular}\hskip 1em plus .17fil
1400 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1401 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\vskip 1em {\large \TitleFont \@date}
1402 \vskip 1em {\large \TitleFont \@date}
1403 \fi
1404 \par
1405 \vskip 1.5em}
1406 \fi

```

13 File arydshln-xetex-bidi.def

```

1407 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1408 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1409 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1410 \expandafter\let\csname endtabular*\endcsname\endtabular
1411 \let\adl@array\@array
1412 \def\@array{\adl@everyvbox\everyvbox
1413 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1414 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1415 \let\adl@noalign\noalign
1416 \adl@array}
1417 \ifadl@usingarypkg
1418 \def\@testpach{\@chclass
1419 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1420 \ifnum \@lastchclass=7 5 \else

```




```

1421 \ifnum \@lastchclass=8 \tw@ \else
1422 \ifnum \@lastchclass=9 \thr@@
1423 \else \z@
1424 \ifnum \@lastchclass = 10 \else
1425 \edef\@nextchar{\expandafter\string\@nextchar}%
1426 \@chnum
1427 \if \@nextchar c\z@ \else
1428 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1429 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1430 \z@ \@chclass
1431 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1432 \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1433 \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1434 \if \@nextchar !6 \else
1435 \if \@nextchar @7 \else
1436 \if \@nextchar <8 \else
1437 \if \@nextchar >9 \else
1438 10
1439 \@chnum
1440 \if \@nextchar m\thr@@\else
1441 \if \@nextchar p4 \else
1442 \if \@nextchar b5 \else
1443 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1444 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1445
1446 \def\@classz{\@classx
1447 \tempcnta \count@
1448 \prepnext@tok
1449 \@addtopreamble{\ifcase \@chnum
1450 \hfil
1451 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1452 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1453 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1454 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1455 \adl@endmbox\or
1456 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1457 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1458 \fi}\prepnext@tok}
1459 \def\adl@class@start{4}
1460 \def\adl@class@iiiorvii{7}
1461
1462 \else
1463 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1464 \ifnum \@lastchclass=\thr@@ 5\relax \else
1465 \z@ \if #1c\@chnum \z@ \else
1466 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1467 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1468 \@chclass
1469 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1470 \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1471 \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1472 \if #1@\tw@ \else
1473 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1474 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```



```

1475
1476 \def \@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1477     \or \or \@addamp \or
1478     \@acolampacol \or \@firstampfalse \@acol \fi
1479 \edef \@preamble{\@preamble
1480     \ifcase \@chnum
1481     \hfil\adl@putlrc{\$ \relax \@sharp$}\hfil
1482     \or \adl@putlrc{\$ \relax \@sharp$}\hfil
1483     \or \hfil\adl@putlrc{\$ \relax \@sharp$}\fi}}
1484 \def \@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1485     \or \or \@addamp \or
1486     \@acolampacol \or \@firstampfalse \@acol \fi
1487 \edef \@preamble{\@preamble
1488     \ifcase \@chnum
1489     \hfil\adl@putlrc{\@sharp\unskip}\hfil
1490     \or \adl@putlrc{\@sharp\unskip}\hfil
1491     \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1492 \def \adl@class@start{6}
1493 \def \adl@class@iiiorvii{3}
1494 \fi
1495 \ApplyPatchCodeToPackage{colortbl}{%
1496 \def \adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1497 \def \adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1498     \let\@endpbox\adl@org@endpbox}
1499 \let \adl@CT@setup\CT@setup
1500 \def \CT@setup{\adl@CT@setup
1501     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1502     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1503     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1504 \let \adl@act@CT@setup\CT@setup
1505 \def \@classz{\@classx
1506     \@tempcnta\count@ \prepnext@tok
1507     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1508     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1509     \expandafter\adl@extract@drsc
1510     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1511     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1512     \@addtopreamble{\if@RTL\beginL\fi%
1513     \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1514     \ifcase \@chnum
1515     \hskip\stretch{.5}\kern\z@
1516     \d@llarbegin
1517     \insert@column
1518     \d@llarend\hskip\stretch{.5}%
1519     \or \d@llarbegin \insert@column \d@llarend \hfill
1520     \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1521     \or $\vcenter
1522     \@startpbox{\@nextchar}\insert@column \@endpbox $%
1523     \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1524     \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1525     \fi
1526     \if@RTL\endR\fi\egroup\egroup
1527     \begingroup
1528     \CT@setup

```



```

1529             \CT@column@color
1530             \CT@row@color
1531             \CT@cell@color
1532             \CT@do@color
1533         \endgroup
1534         \@tempdima\ht\z@
1535         \advance\@tempdima\minrowclearance
1536         \vrule\@height\@tempdima\@width\z@
1537         \unhbox\z@\if@RTL\endL\fi}%
1538     \prepnext@tok}
1539 \let\adl@act@classz\@classz
1540 \let\adl@org@classz\@classz
1541 }

```

14 File beamer-xetex-bidi.def

```

1542 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for X
1543 \AtBeginDocument{%
1544   \if@RTLmain
1545     \raggedleft
1546   \else
1547     \raggedright
1548   \fi
1549 }
1550
1551 \renewcommand*{\bidi@beamer@ragged}{%
1552   \if@RTL
1553     \raggedleft
1554   \else
1555     \raggedright
1556   \fi
1557 }
1558
1559

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1560 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1561 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1562
1563 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1564
1565 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1566
1567 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1568
1569 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1570
1571 \defbeamertemplate{subsection in toc}{sections numbered}
1572 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1573
1574 \defbeamertemplate{subsubsection in toc}{sections numbered}
1575 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeame
1576 \inserttocsubsubsection\par}

```



```

1577
1578 \defbeamertemplate{section in toc}{subsections numbered}
1579 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsection\par}
1580
1581 \defbeamertemplate{subsection in toc}{subsections numbered}
1582 {\leavevmode\ bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubse
1583
1584 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1585 {\leavevmode\normalsize\usebeamerfont{subsection in
1586   toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1587   \inserttocsubsubsection\par}
1588
1589 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1590
1591 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1592
1593 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1594
1595 \defbeamertemplate{section in toc}{circle}
1596 {\leavevmode\ bidi@beamer@leftskip=2ex%
1597   \llap{%
1598     \usebeamerfont*{section number projected}%
1599     \usebeamerfont*{section number projected}%
1600     \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1601       \color{bg}
1602       \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1603       \pgfusepath{fill}
1604       \pgftext[base]{\color{fg}\inserttocsectionnumber}
1605     \end{pgfpicture}\kern1.25ex%
1606   }%
1607   \inserttocsection\par}
1608
1609 \defbeamertemplate{subsection in toc}{circle}
1610 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsubsection\par}
1611
1612 \defbeamertemplate{subsubsection in toc}{circle}
1613 {\leavevmode\normalsize\usebeamerfont{subsection in
1614   toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1615   \inserttocsubsubsection\par}
1616
1617 \bidi@csundef{beamer@@tmpop@section in toc@square}
1618
1619 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1620
1621 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1622
1623 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1624
1625 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1626
1627 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1628
1629 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1630

```



```

1631 \defbeamertemplate{section in toc}{square}
1632 {\leavevmode\ bidi@beamer@leftskip=3ex%
1633   \llap{%
1634     \usebeamerfont*{section number projected}%
1635     \usebeamercolor[bg]{section number projected}%
1636     \if@RTL
1637     \else
1638       \vrule width2.25ex height1.85ex depth.4ex%
1639       \hskip-2.25ex%
1640     \fi
1641     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1642     \if@RTL
1643       \hskip-2.25ex%
1644       \vrule width2.25ex height1.85ex depth.4ex%
1645     \fi
1646   }\kern1.25ex}%
1647 \inserttocsection\par}
1648
1649 \defbeamertemplate{subsection in toc}{square}
1650 {\leavevmode\ bidi@beamer@leftskip=5ex\llap{%
1651   \usebeamercolor[bg]{subsection number projected}%
1652   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1653
1654 \defbeamertemplate{subsubsection in toc}{square}
1655 {\leavevmode\normalsize\usebeamerfont{subsection in
1656   toc}\ bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1657   \llap{%
1658     \usebeamercolor[bg]{subsubsection number projected}%
1659     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1660
1661 \defbeamertemplate{enumerate item}{square}
1662 {
1663   \hbox{%
1664     \usebeamerfont*{item projected}%
1665     \usebeamercolor[bg]{item projected}%
1666     \if@RTL
1667     \else
1668       \vrule width2.25ex height1.85ex depth.4ex%
1669       \hskip-2.25ex%
1670     \fi
1671     \hbox to2.25ex{%
1672       \hfil%
1673       \color{fg}\insertenumlabel%
1674       \hfil}}%
1675     \if@RTL
1676       \hskip-2.25ex%
1677       \vrule width2.25ex height1.85ex depth.4ex%
1678     \fi
1679   }}%
1680 }
1681 [action]
1682 {\setbeamerfont{item projected}{size=\scriptsize}}
1683
1684 \defbeamertemplate{enumerate subitem}{square}

```



```

1685 {
1686   \hbox{%
1687     \usebeamerfont*{subitem projected}%
1688     \usebeamercolor[bg]{subitem projected}%
1689     \if@RTL
1690     \else
1691       \vrule width2.25ex height1.85ex depth.4ex%
1692       \hskip-2.25ex%
1693     \fi
1694     \hbox to2.25ex{%
1695       \hfil%
1696       \color{fg}\insertsubenumlabel%
1697       \hfil}}%
1698     \if@RTL
1699       \hskip-2.25ex%
1700       \vrule width2.25ex height1.85ex depth.4ex%
1701     \fi
1702   }}%
1703 }
1704
1705 \defbeamertemplate{enumerate subsubitem}{square}
1706 {
1707   \hbox{%
1708     \usebeamerfont*{subitem projected}%
1709     \usebeamercolor[bg]{subsubitem projected}%
1710     \if@RTL
1711     \else
1712       \vrule width2.25ex height1.85ex depth.4ex%
1713       \hskip-2.25ex%
1714     \fi
1715     \hbox to2.25ex{%
1716       \hfil%
1717       \color{fg}\insertsubsubenumlabel%
1718       \hfil}}%
1719     \if@RTL
1720       \hskip-2.25ex%
1721       \vrule width2.25ex height1.85ex depth.4ex%
1722     \fi
1723   }}%
1724 }
1725
1726 \defbeamertemplate{enumerate mini template}{square}
1727 {
1728   \hbox{%
1729     \usebeamerfont*{\beameritemnestingprefix item projected}%
1730     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1731     \if@RTL
1732     \else
1733       \vrule width2.25ex height1.85ex depth.4ex%
1734       \hskip-2.25ex%
1735     \fi
1736     \hbox to2.25ex{%
1737       \hfil%
1738       \color{fg}\insertenumlabel%

```



```

1739     \hfil}}%
1740     \if@RTL
1741         \hskip-2.25ex%
1742         \vrule width2.25ex height1.85ex depth.4ex%
1743     \fi
1744 }}%
1745 }
1746
1747 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1748
1749 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1750
1751 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1752
1753 \defbeamertemplate{section in toc}{ball unnumbered}
1754 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1755  \llap{%
1756   \raise0.1ex\beamer@usesphere{section number projected}{bigosphere}\kern1.25ex}%
1757  \inserttocsection\par}
1758
1759 \defbeamertemplate{subsection in toc}{ball unnumbered}
1760 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1761   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1762
1763 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1764 {\leavevmode\normalsize\usebeamerfont{subsection in
1765  toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1766  \llap{%
1767   \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1768
1769 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1770
1771 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1772
1773 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1774
1775 \defbeamertemplate{section in toc}{ball}
1776 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1777  \llap{%
1778   \normalsize%
1779   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1780     \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1781     \pgftext{%
1782       \usebeamerfont*{section number projected}%
1783       \usebeamerfont{section number projected}%
1784       \color{fg!90!bg}%
1785       \inserttocsectionnumber}
1786     \end{pgfpicture}%
1787   \kern1.25ex}%
1788  \inserttocsection\par}
1789 }
1790 [action]
1791 {\setbeamerfont{section number projected}{size=\scriptsize}}
1792

```



```

1793 \defbeamertemplate{subsection in toc}{ball}
1794 {\leavevmode\bidibeamer@leftskip=5ex%
1795 \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1796 \inserttocsubsection\par%
1797 }
1798
1799 \defbeamertemplate{subsubsection in toc}{ball}
1800 {\leavevmode\normalsize\usebeamerfont{subsection in
1801 toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1802 \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1803 \inserttocsubsubsection\par%
1804 }
1805
1806 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1807
1808 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1809
1810 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1811
1812 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1813 {%
1814 \par\vskip\medskipamount%
1815 \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1816 {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1817 \bidi@beamer@ragged%
1818 \usebeamerfont{block body}%
1819 }
1820
1821 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1822 {%
1823 \par\vskip\medskipamount%
1824 \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1825 {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1826 \bidi@beamer@ragged%
1827 \usebeamerfont{block body alerted}%
1828 }%
1829
1830 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1831 {%
1832 \par\vskip\medskipamount%
1833 \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1834 {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1835 \bidi@beamer@ragged%
1836 \usebeamerfont{block body example}%
1837 }%
1838
1839 \bidi@csundef{beamer@@tmpop@caption@numbered}
1840
1841 \defbeamertemplate{caption}{numbered}
1842 {%
1843 \leavevmode
1844 \bidi@beamer@ragged
1845 {%
1846 \usebeamercolor[fg]{caption name}%

```




```

1847 \usebeamerfont*{caption name}%
1848 \insertcaptionname~\insertcaptionnumber
1849 \usebeamerfont{caption label separator}%
1850 }%
1851 \insertcaption\par
1852 }
1853
1854 \bidi@csundef{beamer@tmpop@caption@caption name own line}
1855
1856 \defbeamerfont{caption}{caption name own line}
1857 {%
1858 \begin{minipage}{\textwidth}
1859 \leavevmode
1860 \bidi@beamer@ragged
1861 {%
1862 \usebeamerfont[fg]{caption name}%
1863 \usebeamerfont*{caption name}%
1864 \insertcaptionname%
1865 }\\
1866 \insertcaption
1867 \end{minipage}
1868 }
1869
1870 \ApplyPatchCodeToPackage{caption}{%
1871 \DeclareCaptionFont{beamer@font}{%
1872 \usebeamerfont*{caption}%
1873 % \usebeamerfont[fg]{caption}%
1874 }
1875 \SetCaptionDefault{font}{beamer@font}
1876 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1877 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1878 }
1879

```

16 File beamerbaseboxes-xetex-bidi.def

```

1880 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1881 \renewcommand\beamerboxesrounded[2] [] {%
1882 \global\let\beamer@firstlineitemizeunskip=\relax%
1883 \vbox\bgroup%
1884 \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1885 \setkeys{beamerboxes}{#1}%
1886 {%
1887 \usebeamerfont{\bmb@lower}%
1888 \globalcolorstrue%
1889 \colorlet{lower.bg}{bg}%
1890 }%
1891 {%
1892 \usebeamerfont{\bmb@upper}%
1893 \globalcolorstrue%
1894 \colorlet{upper.bg}{bg}%
1895 }%
1896 %
1897 % Typeset head

```



```

1898 %
1899 \vskip4bp
1900 \setbox\bmb@box=\hbox{%
1901   \begin{minipage}[b]{\bmb@width}%
1902     \usebeamercolor[fg]{\bmb@upper}%
1903     #2%
1904   \end{minipage}}%
1905 \ifdim\wd\bmb@box=0pt%
1906   \setbox\bmb@box=\hbox{}%
1907   \ht\bmb@box=1.5pt%
1908   \bmb@prevheight=-4.5pt%
1909 \else%
1910   \wd\bmb@box=\bmb@width%
1911   \bmb@temp=\dp\bmb@box%
1912   \ifdim\bmb@temp<1.5pt%
1913     \bmb@temp=1.5pt%
1914   \fi%
1915   \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1916   \dp\bmb@box=0pt%
1917   \bmb@prevheight=\ht\bmb@box%
1918 \fi%
1919 \bmb@temp=\bmb@width%
1920 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1921 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1922 \hbox{%
1923   \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1924     \ifdim\wd\bmb@box=0pt%
1925       \color{lower.bg}%
1926     \else%
1927       \color{upper.bg}%
1928     \fi%
1929     \pgfpathmoveto{-4bp}{-1bp}
1930     \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1931     \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1932     \pgfpathcurveto%
1933       {\pgfpoint{\bmb@dima}{3bp}}%
1934       {\pgfpoint{\bmb@dimb}{1.2bp}}%
1935       {\pgfpoint{\bmb@dimb}{-1bp}}%
1936     \bmb@dima=-\ht\bmb@box%
1937     \advance\bmb@dima by-2pt%
1938     \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1939     \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1940     \pgfusepath{fill}
1941   \end{pgfpicture}%
1942   \copy\bmb@box%
1943 }%
1944 \nointerlineskip%
1945 \vskip-1pt%
1946 \ifdim\wd\bmb@box=0pt%
1947 \else%
1948 \hbox{%
1949   \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1950     \bmb@dima=\bmb@width%
1951     \advance\bmb@dima by8bp%

```



```

1952     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dimas}{8bp}}
1953     \pgfusepath{clip}
1954     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuseshading{\bmb@transi
1955     \end{pgfpicture}%
1956   }%
1957   \nointerlineskip%
1958   \vskip-0.5pt%
1959   \fi%
1960   \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1961   \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1962     \vskip2pt%
1963     \usebeamercolor[fg]{\bmb@lower}%
1964     \colorlet{beamerstructure}{upper.bg}%
1965     \colorlet{structure}{upper.bg}%
1966     %\color{.}%
1967     \@bidi@list@minipage@parboxfalse
1968   }
1969
1970 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1971   \begingroup
1972   \@RTLfalse
1973 }{}{}
1974
1975

```

17 File beamerbasecolor-xetex-bidi.def

```

1976 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1977 \renewenvironment{beamercolorbox}[2][]{%
1978   \def\beamer@vmode{\leavevmode}%
1979   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1980     leftskip=0pt,rightskip=0pt plus1fil,%
1981     sep=0pt,colsep=0pt,colsep*=0pt,%
1982     shadow=false,rounded=false,ignorebg=false}%
1983   \ifRTL
1984     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1985   \else
1986     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1987   \fi
1988   \setkeys{beamercolbox}{#1}%
1989   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1990   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1991   \def\beamer@colbox@color{#2}%
1992   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1993     \ifbeamer@colbox@ignorebg%
1994       \colorlet{beamer@temp@color}{bg}%
1995       \usebeamercolor[fg]{#2}%
1996       \colorlet{bg}{beamer@temp@color}%
1997     \else%
1998       \usebeamercolor[fg]{#2}%
1999     \fi%
2000   \beginL
2001   \vbox\bgroup%
2002   \hsize=\beamer@colbox@wd%

```



```

2003 \arrayparboxrestore%
2004 \leftskip=\beamer@colbox@ls%
2005 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2006 \rightskip=\beamer@colbox@rs%
2007 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2008 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2009 \advance\leftskip by\beamer@colbox@colsep%
2010 \advance\rightskip by\beamer@colbox@colsep%
2011 \vskip\beamer@colbox@colsep%
2012 \fi%
2013 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2014 \fi%
2015 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2016 \beamer@vmode\ignorespaces}{%
2017 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2018 \if@tempswa
2019 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2020 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2021 \fi%
2022 \egroup\endL\color@endgroup\egroup%
2023 \wd\beamer@tempbox=\beamer@colbox@wd%
2024 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2025 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2026 \ifbeamer@colbox@rounded%
2027 \if@tempswa%
2028 \begin{beamerboxesrounded}[%
2029 shadow=\beamer@colbox@shadow,%
2030 lower=\beamer@colbox@color,%
2031 upper=normal text,%
2032 width=\beamer@colbox@wd]{}%
2033 \box\beamer@tempbox%
2034 \end{beamerboxesrounded}%
2035 \else%
2036 \ifdim\wd\beamer@tempbox>\textwidth%
2037 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2038 \fi%
2039 \box\beamer@tempbox%
2040 \fi%
2041 \else%
2042 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2043 \usebeamercolor{\beamer@colbox@color}%
2044 \hskip-\beamer@colbox@colseps%
2045 \fboxsep=\z@\colorbox{bg}{%
2046 \hskip\beamer@colbox@colseps%
2047 \box\beamer@tempbox%
2048 \hskip\beamer@colbox@colseps%
2049 }%
2050 \hskip-\beamer@colbox@colseps%
2051 }\fi%
2052 \ifdim\wd\beamer@tempbox>\textwidth%
2053 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\
2054 \fi%
2055 \box\beamer@tempbox%
2056 \fi%

```



```
2057 }
2058
2059
```

18 File beamerbasecompatibility-xetex-bidi.def

```
2060 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2061 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2062
2063
```

19 File beamerbaseframecomponents-xetex-bidi.def

```
2064 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2065 \renewcommand{\setbeamerfont}[1]{%
2066   \beamer@dogeometryfalse%
2067   \setkeys{beamer@margin}{#1}%
2068   \ifbeamer@dogeometry%
2069     % Reset left margin now
2070     \beamer@tempdim=\beamer@leftmargin%
2071     \advance\beamer@tempdim by\beamer@leftsidebar%
2072     \if@RTLmain
2073       \geometry{right=\the\beamer@tempdim}%
2074     \else
2075       \geometry{left=\the\beamer@tempdim}%
2076     \fi
2077     % Reset right margin now
2078     \beamer@tempdim=\beamer@rightmargin%
2079     \advance\beamer@tempdim by\beamer@rightsidebar%
2080     \if@RTLmain
2081       \geometry{left=\the\beamer@tempdim}%
2082     \else
2083       \geometry{right=\the\beamer@tempdim}%
2084     \fi
2085   \fi%
2086 }
2087
2088 \newcommand*\bidi@beamer@Gm@lmargin}{%
2089   \if@RTLmain
2090     \Gm@rmargin
2091   \else
2092     \Gm@lmargin
2093   \fi
2094 }
2095
2096 \newcommand*\bidi@beamer@Gm@rmargin}{%
2097   \if@RTLmain
2098     \Gm@lmargin
2099   \else
2100     \Gm@rmargin
2101   \fi
2102 }
2103
2104 \def\ps@navigation{
```



```

2105 \def\@oddhead{%
2106   \begingroup%
2107   \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2108   \beamer@tempdim=\ht\beamer@tempbox%
2109   \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2110   \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2111   \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2112   \beamer@tempdim=\ht\@tempboxa%
2113   \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2114   \wd\@tempboxa=Opt\ht\@tempboxa=Opt\dp\@tempboxa=Opt%
2115   \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}}%
2116   \hbox{%
2117     {%
2118       \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2119       \ifRTLmain
2120         {%
2121           \vbox to \sidebarheight{%
2122             \usebeamertemplate***{sidebar left}}%
2123             \vfil%
2124           }}%
2125           \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2126             \hskip-\textwidth
2127           }%
2128           \fi
2129           {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2130             \usebeamercolor*{sidebar left}}%
2131             \usebeamertemplate{sidebar canvas left}}%
2132             \vss%
2133           }}%
2134           \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2135           \box\beamer@tempbox}}%
2136           \ifRTLmain
2137           \else
2138           {%
2139             \vbox to \sidebarheight{%
2140               \usebeamertemplate***{sidebar left}}%
2141               \vfil%
2142             }}\fi}%
2143           \beamer@tempdim=\ht\beamer@tempbox%
2144           \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2145           \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2146           \box\beamer@tempbox%
2147         }%
2148         {% print right sidebar first, since it should be overwritten by headline
2149         \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2150         \ifRTLmain
2151           {%
2152             \vbox to \sidebarheight{%
2153               \usebeamertemplate***{sidebar right}}%
2154               \vfil%
2155             }}%
2156             \hskip-\textwidth
2157           \fi
2158           {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%

```



```

2159         \usebeamercolor*{sidebar right}%
2160         \usebeamertemplate{sidebar canvas right}%
2161         \vss%
2162     }}%
2163     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2164     \box\beamer@tempbox}%
2165     \if@RTLmain
2166     \else
2167     {%
2168         \vbox to \sidebarheight{%
2169             \usebeamertemplate***{sidebar right}%
2170             \vfil%
2171         }}\fi}%
2172     \beamer@tempdim=\ht\beamer@tempbox%
2173     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2174     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2175     \box\beamer@tempbox%
2176     }%
2177     \beamer@typesetheadorfoot{headline}%
2178     }%
2179     \hfil}%
2180 \endgroup}
2181 \def\@oddfoot{%
2182     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2183         \hfil}\hbox{}}\hfil
2184     }%
2185 \let\@evenhead\@oddhead
2186 \let\@evenfoot\@oddfoot}
2187
2188 \AtBeginDocument{%
2189     \pagestyle{navigation}%
2190 }
2191
2192 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2193     {\parskip0pt\offinterlineskip%
2194         \hbox{%
2195             \hskip-\bidi@beamer@Gm@lmargin%
2196             \hbox{%
2197                 \vbox{%
2198                     \@tempdima=\textwidth%
2199                     \textwidth=\paperwidth%
2200                     \hsize=\textwidth%
2201                     \def\{\,%
2202                         \usebeamertemplate***{#1}%
2203                     }}%
2204                 \hskip-\bidi@beamer@Gm@rmargin%
2205                 }}\hfil%
2206     }
2207
2208 \def\ps@empty{%
2209     \let\@mkboth\@gobbletwo%
2210     \def\@oddhead{\beginingroup%
2211         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2212         \beamer@tempdim=\ht\beamer@tempbox%

```



```

2213 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2214 \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2215 \setbox\@tempboxa=\hbox{\usebeamer-template***{background}}%
2216 \beamer@tempdim=\ht\@tempboxa%
2217 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2218 \wd\@tempboxa=Opt\ht\@tempboxa=Opt\dp\@tempboxa=Opt%
2219 \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\
2220 \endgroup%
2221 }
2222 \def\@oddfont{\normalcolor\hfil%
2223 \setbox\beamer@tempbox=\hbox{\usebeamer-template***{navigation symbols}\hskip-\bidi@beame
2224 \ht\beamer@tempbox=Opt%
2225 \dp\beamer@tempbox=Opt%
2226 \box\beamer@tempbox}}
2227 \let\@evenhead\@oddhead\let\@evenfoot\@oddfont}
2228
2229 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2230 \beamer@colclose\def\beamer@colclose{%
2231 \begin{actionenv}#3%
2232 \setkeys{beamer@col}{#1}%
2233 \begin{minipage}[\beamer@colalign]{#2}%
2234 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2235 {end{minipage}\hfill\end{actionenv}}\@ignoretrue}
2236 \let\endcolumn\endbeamer@columnenv
2237
2238 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2239 \beamer@colclose%
2240 \def\beamer@colclose{end{minipage}\hfill\end{actionenv}\ignorespaces}%
2241 \begin{actionenv}#3%
2242 \setkeys{beamer@col}{#1}%
2243 \begin{minipage}[\beamer@colalign]{#2}%
2244 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2245
2246 \renewenvironment<>{columns}[1][]{%
2247 \begin{actionenv}#2%
2248 \ifbeamer@onlytextwidth
2249 \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2250 \def\beamer@colexitcode{\unskip\egroup}
2251 \else%
2252 \def\beamer@colentrycode{%
2253 \hbox to\textwidth\bgroup%
2254 \leavevmode%
2255 \hskip-\beamer@leftmargin%
2256 \nobreak%
2257 \beamer@tempdim=\textwidth%
2258 \advance\beamer@tempdim by\beamer@leftmargin%
2259 \advance\beamer@tempdim by\beamer@rightmargin%
2260 \hbox to\beamer@tempdim\bgroup%
2261 \hbox}\hfill\ignorespaces}%
2262 \def\beamer@colexitcode{\egroup%
2263 \nobreak%
2264 \hskip-\beamer@rightmargin\egroup}%
2265 \fi%
2266 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%

```




```

2267 \setkeys{beamer@col}{#1}%
2268 \par%
2269 \leavevmode
2270 \beamer@colentrycode%
2271 \def\beamer@colclose{\ignorespaces}%
2272 {\beamer@colclose\def\beamer@colclose{\beamer@colclose}\end{actionenv}}%
2273
2274
2275 \def\@makeRTLfnntext#1{%
2276 \def\insertfootnotetext{#1}%
2277 \def\insertfootnotemark{\@makefnmark}%
2278 \usebeamertemplate***{RTLfootnote}}
2279
2280 \def\@makeLTRfnntext#1{%
2281 \def\insertfootnotetext{#1}%
2282 \def\insertfootnotemark{\@makefnmark}%
2283 \usebeamertemplate***{LTRfootnote}}
2284
2285 \renewcommand<>\beamer@framefootnotetext[1]{%
2286 \global\setbox\beamer@footins\vbox{%
2287 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2288 \hsize\framewidth
2289 \textwidth\hsize
2290 \columnwidth\hsize
2291 \unvbox\beamer@footins
2292 \reset@font
2293 \bidi@@footnotetext@font
2294 \@parboxrestore
2295 \protected@edef\@currentlabel
2296 {\csname p@footnote\endcsname\@thefnmark}%
2297 \color@begingroup
2298 \uncover#2{\@makefnntext{%
2299 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2300 \color@endgroup}}
2301
2302 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2303 \global\setbox\beamer@footins\vbox{%
2304 \@RTLtrue
2305 \hsize\framewidth
2306 \textwidth\hsize
2307 \columnwidth\hsize
2308 \unvbox\beamer@footins
2309 \reset@font
2310 \bidi@@RTLfootnotetext@font
2311 \@parboxrestore
2312 \protected@edef\@currentlabel
2313 {\csname p@footnote\endcsname\@thefnmark}%
2314 \color@begingroup
2315 \uncover#2{\@makeRTLfnntext{%
2316 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2317 \color@endgroup}}
2318
2319 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2320 \global\setbox\beamer@footins\vbox{%

```



```

2321 \@RTLfalse
2322 \hsize\framewidth
2323 \textwidth\hsize
2324 \columnwidth\hsize
2325 \unvbox\beamer@footins
2326 \reset@font
2327 \bidi@@LTRfootnotetext@font
2328 \@parboxrestore
2329 \protected@edef\@currentlabel
2330     {\csname p@footnote\endcsname\@thefnmark}%
2331 \color@begingroup
2332     \uncover#2{\@makeLTRfntext{%
2333         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2334 \color@endgroup}}
2335
2336 \renewcommand<>\@mpfootnotetext[1]{%
2337 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
2338 \global\setbox\@mpfootins\vbox{%
2339     \unvbox\@mpfootins
2340     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2341     \reset@font
2342     \bidi@@footnotetext@font
2343     \hsize\columnwidth
2344     \@parboxrestore
2345     \protected@edef\@currentlabel
2346         {\csname p@mpfootnote\endcsname\@thefnmark}%
2347     \color@begingroup
2348         \uncover#2{\@makefntext{%
2349             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2350     \color@endgroup}}
2351
2352 \renewcommand<>\@mpRTLfootnotetext[1]{%
2353 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
2354 \global\setbox\@mpfootins\vbox{%
2355     \unvbox\@mpfootins
2356     \@RTLtrue
2357     \reset@font
2358     \bidi@@RTLfootnotetext@font
2359     \hsize\columnwidth
2360     \@parboxrestore
2361     \protected@edef\@currentlabel
2362         {\csname p@mpfootnote\endcsname\@thefnmark}%
2363     \color@begingroup
2364         \uncover#2{\@makeRTLfntext{%
2365             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2366     \color@endgroup}}
2367
2368 \renewcommand<>\@mpLTRfootnotetext[1]{%
2369 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2370 \global\setbox\@mpfootins\vbox{%
2371     \unvbox\@mpfootins
2372     \@RTLfalse
2373     \reset@font
2374     \bidi@@LTRfootnotetext@font

```



```

2375 \hsize\columnwidth
2376 \@parboxrestore
2377 \protected@edef\@currentlabel
2378   {\csname p@mpfootnote\endcsname\@thefnmark}%
2379 \color@begingroup
2380   \uncover#2{\@makeLTRfntext{%
2381     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2382   \color@endgroup}}
2383
2384 \let\@footnotetext=\beamer@framefootnotetext
2385 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2386 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2387
2388 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2389 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2390 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2391
2392 \renewcommand<>{\footnote}[1][ ]{%
2393   \let\beamer@footnotetext=\@footnotetext%
2394   \let\beamer@mpfn=\@mpfn%
2395   \let\beamer@thempfn=\@thempfn%
2396   \let\beamer@kvorig=\KV@errx%
2397   \let\beamer@xkvorig=\XKV@err
2398   \def\beamer@footarg{}%
2399   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2400   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2401   \setkeys{beamerfootnote}{#1}%
2402   \let\KV@errx=\beamer@kvorig%
2403   \let\XKV@errx=\beamer@xkvorig
2404   \ifx\beamer@footarg\@empty%
2405     \def\beamer@next{\stepcounter\beamer@mpfn
2406       \protected@xdef\@thefnmark{\beamer@thempfn}%
2407       \@footnotemark\beamer@footnotetext#2}%
2408   \else%
2409     \def\beamer@next{%
2410       \begingroup
2411         \csname c@beamer@mpfn\endcsname\beamer@footarg\relax
2412         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2413       \endgroup
2414       \@footnotemark\beamer@footnotetext#2}%
2415   \fi%
2416   \beamer@next}
2417
2418 \renewcommand<>{\RTLfootnote}[1][ ]{%
2419   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2420   \let\beamer@mpfn=\@mpfn%
2421   \let\beamer@thempfn=\@thempfn%
2422   \let\beamer@kvorig=\KV@errx%
2423   \let\beamer@xkvorig=\XKV@err
2424   \def\beamer@footarg{}%
2425   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2426   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2427   \setkeys{beamerfootnote}{#1}%
2428   \let\KV@errx=\beamer@kvorig%

```



```

2429 \let\XKV@errx=\beamer@xkvorig
2430 \ifx\beamer@footarg\@empty%
2431   \def\beamer@next{\stepcounter\beamer@mpfn
2432     \protected@xdef\@thefnmark{\beamer@thempfn}%
2433     \@footnotemark\beamer@RTLfootnotetext#2}%
2434 \else%
2435   \def\beamer@next{%
2436     \begingroup
2437       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2438       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2439     \endgroup
2440     \@footnotemark\beamer@RTLfootnotetext#2}%
2441 \fi%
2442 \beamer@next}
2443
2444 \renewcommand<>{\LTRfootnote}[1][ ]{%
2445   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2446   \let\beamer@mpfn=\@mpfn%
2447   \let\beamer@thempfn=\@thempfn%
2448   \let\beamer@kvorig=\KV@errx%
2449   \let\beamer@xkvorig=\XKV@err
2450   \def\beamer@footarg{}%
2451   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2452   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2453   \setkeys{beamerfootnote}{#1}%
2454   \let\KV@errx=\beamer@kvorig%
2455   \let\XKV@errx=\beamer@xkvorig
2456   \ifx\beamer@footarg\@empty%
2457     \def\beamer@next{\stepcounter\beamer@mpfn
2458       \protected@xdef\@thefnmark{\beamer@thempfn}%
2459       \@footnotemark\beamer@LTRfootnotetext#2}%
2460   \else%
2461     \def\beamer@next{%
2462       \begingroup
2463         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2464         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2465       \endgroup
2466       \@footnotemark\beamer@LTRfootnotetext#2}%
2467   \fi%
2468   \beamer@next}
2469
2470

```

20 File beamerbaseframesize-xetex-bidi.def

```

2471 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2472 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2473   \par\nointerlineskip%
2474   \global\beamer@slidehaszoomtrue%
2475   \advance\beamer@zoomcount by1\relax%
2476   \def\beamer@zoomborderwidth{0}%
2477   \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}
2478   \setkeys{beamerzoom}{#3}%
2479   \only<#1>{%

```



```

2480 {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2481 \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2482   \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2483     \vbox to #7{%
2484       \hbox to#6{\hfil}%
2485       \vfil%
2486     }%
2487   \else%
2488     \begin{group}%
2489     \normalsize%
2490     \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2491       \pgfsetfillopacity{0}
2492       \pgftext[x=0cm,y=3pt]{.}
2493       \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2494     \end{pgfpicture}%
2495     \endgroup%
2496   \fi%
2497 }}}%
2498 \ht\@tempboxa=0pt%
2499 \wd\@tempboxa=0pt%
2500 \dp\@tempboxa=0pt%
2501 \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@temp
2502 \ht\@tempboxa=0pt%
2503 \wd\@tempboxa=0pt%
2504 \dp\@tempboxa=0pt%
2505 \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2506 }%
2507 \only<#2>{%
2508   \ifundefined{\beamer@labelzoomed}%
2509   {%
2510     \hypertarget{\beamer@labelzoomed}{%
2511       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{%
2512         }%
2513       \gdef\beamer@zoomer{%
2514         % compute zoom factor
2515         \@tempdima=\beamer@frametextheight%
2516         \@tempdimb=#7\relax%
2517         \@tempcnta=\@tempdimb%
2518         \divide\@tempcnta by4096\relax%
2519         \multiply\@tempdima by16\relax%
2520         \divide\@tempdima by\@tempcnta%
2521         \@tempdimb=\paperwidth%
2522         \ifbeamer@plainframe%
2523         \else%
2524           \advance\@tempdimb by-\beamer@leftsidebar%
2525           \advance\@tempdimb by-\beamer@rightsidebar\relax%
2526         \fi%
2527         \@tempdimc=#6\relax%
2528         \@tempcntb=\@tempdimc%
2529         \divide\@tempcntb by4096\relax%
2530         \multiply\@tempdimb by16\relax%
2531         \divide\@tempdimb by\@tempcntb%
2532         \ifdim\@tempdimb<\@tempdima%
2533           \@tempdima=\@tempdimb%

```



```

2534 \fi%
2535 \edef\beamer@temp{\strip@pt\@tempdima}%
2536 \@tempdimc=\beamer@frametextheight%
2537 \advance\@tempdimc by4pt%
2538 \@tempdimb=\paperwidth%
2539 \ifbeamer@plainframe%
2540 \else%
2541 \advance\@tempdimb by-\beamer@leftsidebar%
2542 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2543 \fi%
2544 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2545 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2546 \ht\@tempboxa=0pt%
2547 \wd\@tempboxa=0pt%
2548 \dp\@tempboxa=0pt%
2549 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2550 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2551 \if@RTL
2552 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{\beamer@frametextheight}{\pgftext [right, top]{\box\@tempboxa}
2553 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2554 \pgfusepath{clip}
2555 \begingroup
2556 \pgftransformscale{\beamer@temp}
2557 \@tempdima=#4\relax%
2558 \@tempdimb=#5\relax%
2559 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2560 \pgftext [right, top]{\vbox{\vbox{} \nointerlineskip \unvbox\beamer@framebox}}
2561 \endgroup
2562 \end{pgfpicture}}%
2563 \else
2564 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin}{\beamer@frametextheight}{\pgftext [left, top]{\box\@tempboxa}
2565 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2566 \pgfusepath{clip}
2567 \begingroup
2568 \pgftransformscale{\beamer@temp}
2569 \@tempdima=#4\relax%
2570 \@tempdimb=#5\relax%
2571 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2572 \pgftext [left, top]{\vbox{\vbox{} \nointerlineskip \unvbox\beamer@framebox}}
2573 \endgroup
2574 \end{pgfpicture}}%
2575 \fi
2576 \}}%
2577 \setbox\beamer@framebox=\vbox{%
2578 \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2579 \nointerlineskip \unvbox\beamer@frametitlebox%
2580 \nobreak%
2581 \box\beamer@framebox%
2582 \nobreak%
2583 \vss%
2584 \beamer@exitcode%
2585 }%

```



```

2588     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2589     }%
2590 }%
2591 }
2592
2593

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2594 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2595 \def\beamer@enum@{%
2596   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2597   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2598   \bgroup
2599   \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2600   \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2601   \egroup
2602   \expandafter
2603   \list
2604     {\usebeamertemplate{\beamer@enumtempl}}
2605     {\usecounter\@enumctr%
2606       \def\makelabel##1{\hss\llap{%
2607         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2608         \usebeamerfont[fg]{enumerate \beameritemnestingprefix item}##1}}}}%
2609   \beamer@cramped%
2610   \bidi@beamer@ragged%
2611   \beamer@firstlineitemizeunskip%
2612 }
2613
2614 \renewcommand{\itemize}[1][\@itemdepth]{%
2615   \ifblank{##1}{\def\beamer@defaulttospec{##1}}%
2616   \ifnum \@itemdepth >2\relax\@toodeep\else
2617     \advance\@itemdepth\@ne
2618     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2619     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2620     \bgroup
2621     \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2622     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2623     \egroup
2624     \list
2625       {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2626       {\def\makelabel##1{%
2627         {%
2628           \hss\llap{%
2629             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2630             \usebeamerfont[fg]{itemize \beameritemnestingprefix item}##1}}}}%
2631         }%
2632       }%
2633   }
2634   \fi%
2635   \beamer@cramped%
2636   \bidi@beamer@ragged%
2637   \beamer@firstlineitemizeunskip%
2638 }

```



```

2639
2640 \def\@@description{%
2641   \advance\beamer@descdefault by \labelsep%
2642   \usebeamerfont{description body}%
2643   \bgroup
2644   \usebeamerfont{description body}%
2645   \usebeamerfont{description body begin}%
2646   \egroup
2647   \list
2648   {}
2649   {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2650   \beamer@cramped%
2651   \bidi@beamer@ragged
2652   \beamer@firstlineitemizeunskip%
2653 }
2654
2655 \renewenvironment{thebibliography}[1]
2656 {%\leavevmode\unskip%
2657 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
2658 \bidi@thebibliography@font@hook%
2659 \list{\@biblabel{\@arabic\c@enumiv}}%
2660   {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2661   \leftmargin\labelwidth
2662   \advance\leftmargin\labelsep
2663   \itemsep=0pt%
2664   \partopsep=0pt%
2665   \topsep=0pt%
2666   \usecounter{enumiv}%
2667   \let\p@enumiv\@empty
2668   \renewcommand\theenumiv{\@arabic\c@enumiv}
2669   \let\makelabel\beamer@biblabeltemplate}%
2670   \sloppy\bidi@beamer@ragged
2671   \clubpenalty10000
2672   \@clubpenalty \clubpenalty
2673   \widowpenalty10000%
2674   \sfcode`..\@m}
2675 {\def\@noitemerr
2676   {\@latex@warning{Empty `thebibliography' environment}}%
2677   \ifhmode\unskip\fi\endlist}
2678
2679

```

22 File beamerbasemisc-xetex-bidi.def

```

2680 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2681 \define@key{beamerst}{width}{%
2682   \def\beamer@ststart{%
2683     \begin{minipage}[t]{#1}%
2684       \bidi@beamer@ragged
2685       \beamer@stalign
2686       \beamer@stlinebreakrule
2687     }%
2688   \def\beamer@stend{\end{minipage}}
2689

```



23 File beamerbasenavigation-xetex-bidi.def

```

2691 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beamer]
2692 \def\slideentry#1#2#3#4#5#6{%
2693   %section number, subsection number, slide number, first/last frame, page number, part number
2694   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2695     \ifbeamer@compress%
2696       \advance\beamer@xpos by1\relax%
2697     \else%
2698       \ifnum#2=0%
2699         \beamer@ypos@offset=1\relax%
2700       \fi
2701       \beamer@xpos=#3\relax%
2702       \beamer@ypos=#2\relax%
2703       \advance\beamer@ypos by \beamer@ypos@offset\relax
2704     \fi%
2705   \hbox to 0pt{%
2706     \beamer@tempdim=-\beamer@vboxoffset%
2707     \advance\beamer@tempdim by-\beamer@boxsize%
2708     \multiply\beamer@tempdim by\beamer@ypos%
2709     \advance\beamer@tempdim by -.05cm%
2710     \raise\beamer@tempdim\hbox{%
2711       \beamer@tempdim=\beamer@boxsize%
2712       \multiply\beamer@tempdim by\beamer@xpos%
2713       \advance\beamer@tempdim by -\beamer@boxsize%
2714       \advance\beamer@tempdim by 1pt%
2715       \kern\beamer@tempdim
2716       \global\beamer@section@min@dim\beamer@tempdim
2717       \hbox{\beamer@link(#4){%
2718         \usebeamerfont{mini frame}%
2719         \ifnum\c@section=#1%
2720           \ifnum\c@subsection=#2%
2721             \usebeamercolor[fg]{mini frame}%
2722             \ifnum\c@subsectionslide=#3%
2723               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2724             \else%
2725               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhighlight%
2726             \fi%
2727           \else%
2728             \usebeamercolor{mini frame}%
2729             %\color{fg!50!bg}%
2730             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2731           \fi%
2732         \else%
2733           \usebeamercolor{mini frame}%
2734           %\color{fg!50!bg}%
2735           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2736         \fi%
2737       }}}\hskip-10cm plus 1fil%
2738   }\fi\fi%
2739 \else%
2740 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%

```



```

2741 \fi\ignorespaces
2742 }
2743
2744 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2745 {
2746 \pgfpathmoveto{3.5bp}{0.5bp}
2747 \pgfpathqlineto{1.5bp}{2bp}
2748 \pgfpathqlineto{3.5bp}{3.5bp}
2749 \pgfusepathqfill
2750 }
2751
2752 \def\insertgotosymbol{%
2753 \if@RTL
2754 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2755 \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2756 \end{pgfpicture}%
2757 \else
2758 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2759 \pgfuseobject{beamer@gotosymbol}%
2760 \end{pgfpicture}%
2761 \fi
2762 }
2763
2764 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2765 {
2766 \pgfpathmoveto{5.5bp}{0.5bp}
2767 \pgfpathqlineto{3.5bp}{2bp}
2768 \pgfpathqlineto{5.5bp}{3.5bp}
2769 \pgfpathmoveto{3.5bp}{0.5bp}
2770 \pgfpathqlineto{1.5bp}{2bp}
2771 \pgfpathqlineto{3.5bp}{3.5bp}
2772 \pgfusepathqfill
2773 }
2774
2775 \def\insertskipsymbol{%
2776 \if@RTL
2777 \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2778 \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2779 \end{pgfpicture}%
2780 \else
2781 \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2782 \pgfuseobject{beamer@skipsymbol}%
2783 \end{pgfpicture}%
2784 \fi
2785 }
2786
2787 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2788 {
2789 \pgfpathmoveto{1.5bp}{0.5bp}
2790 \pgfpathqlineto{3.5bp}{2bp}
2791 \pgfpathqlineto{1.5bp}{3.5bp}
2792 \pgfusepathqfill
2793 }
2794

```



```

2795 \def\insertreturnsymbol{%
2796 \if@RTL
2797   \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2798     \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2799   \end{pgfpicture}%
2800 \else
2801   \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2802     \pgfuseobject{beamerreturnsymbol}%
2803   \end{pgfpicture}%
2804 \fi
2805 }
2806
2807

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2808 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2809 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2810
2811

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2812 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2813 \newcommand*{\bidi@beamer@leftskip}{%
2814   \if@RTL
2815     \rightskip
2816   \else
2817     \leftskip
2818   \fi
2819 }
2820
2821 \newcommand*{\bidi@beamer@rightskip}{%
2822   \if@RTL
2823     \leftskip
2824   \else
2825     \rightskip
2826   \fi
2827 }
2828
2829 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2830
2831 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2832
2833 \defbeamertemplate*{subsection in toc}{default}
2834 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2835
2836 \defbeamertemplate*{subsubsection in toc}{default}
2837 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2838   \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2839
2840 \newcommand*{\bidi@beamer@blacktriangle}{%
2841   \if@RTL
2842     $\blacktriangleleft$%

```



```

2843 \else
2844   $\blacktriangleright$%
2845 \fi
2846 }
2847
2848 \bidi@csundef{beamer@@tmpop@itemize item@default}
2849
2850 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2851
2852 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2853
2854 \defbeamer*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2855 \defbeamer*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2856 \defbeamer*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2857
2858 \bidi@undef\beamer@@tmpop@footnote@default
2859
2860 \defbeamer*{footnote}{default}
2861 {
2862   \parindent 1em\noindent%
2863   \bidi@beamer@ragged
2864   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2865 }
2866
2867 \defbeamer*{RTLfootnote}{default}
2868 {
2869   \parindent 1em\noindent%
2870   \raggedleft
2871   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2872 }
2873
2874 \defbeamer*{LTRfootnote}{default}
2875 {
2876   \parindent 1em\noindent%
2877   \raggedright
2878   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2879 }
2880
2881 \bidi@undef\beamer@@tmpop@caption@default
2882
2883 \defbeamer*{caption}{default}
2884 {%
2885   \bidi@beamer@ragged
2886   {%
2887     \leavevmode
2888     \usebeamerfont[fg]{caption name}%
2889     \usebeamerfont*{caption name}%
2890     \insertcaptionname
2891     \usebeamerfont{caption label separator}%
2892   }%
2893   \insertcaption\par
2894 }
2895
2896 \bidi@csundef{beamer@@tmpop@block begin@default}

```



```

2897
2898 \bidi@csundef{beamer@tmpop@block alerted begin@default}
2899
2900 \bidi@csundef{beamer@tmpop@block example begin@default}
2901
2902 \defbeamer*template*{block begin}{default}
2903 {
2904   \par\vskip\medskipamount%
2905   \begin{beamer*colorbox}[colsep*=.75ex]{block title}
2906     \usebeamerfont*{block title}\insertblocktitle%
2907   \end{beamer*colorbox}%
2908   {\parskip0pt\par}%
2909   \ifbeamer*colorempy[bg]{block title}
2910   {}
2911   {\ifbeamer*colorempy[bg]{block body}{}\{\nointerlineskip\vskip-0.5pt}\}%
2912   \usebeamerfont{block body}%
2913   \begin{beamer*colorbox}[colsep*=.75ex,vmode]{block body}%
2914     \ifbeamer*colorempy[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel
2915   }
2916
2917 \defbeamer*template*{block alerted begin}{default}
2918 {
2919   \par\vskip\medskipamount%
2920   \begin{beamer*colorbox}[colsep*=.75ex]{block title alerted}
2921     \usebeamerfont*{block title alerted}\insertblocktitle%
2922   \end{beamer*colorbox}%
2923   {\parskip0pt\par}%
2924   \ifbeamer*colorempy[bg]{block title alerted}
2925   {}
2926   {\ifbeamer*colorempy[bg]{block body alerted}{}\{\nointerlineskip\vskip-0.5pt}\}%
2927   \usebeamerfont{block body alerted}%
2928   \begin{beamer*colorbox}[colsep*=.75ex,vmode]{block body alerted}%
2929     \ifbeamer*colorempy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2930   }
2931
2932 \defbeamer*template*{block example begin}{default}
2933 {
2934   \par\vskip\medskipamount%
2935   \begin{beamer*colorbox}[colsep*=.75ex]{block title example}
2936     \usebeamerfont*{block title example}\insertblocktitle%
2937   \end{beamer*colorbox}%
2938   {\parskip0pt\par}%
2939   \ifbeamer*colorempy[bg]{block title example}
2940   {}
2941   {\ifbeamer*colorempy[bg]{block body example}{}\{\nointerlineskip\vskip-0.5pt}\}%
2942   \usebeamerfont{block body example}%
2943   \begin{beamer*colorbox}[colsep*=.75ex,vmode]{block body example}%
2944     \ifbeamer*colorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2945   }
2946
2947 \bidi@csundef{beamer@tmpop@abstract begin@default}
2948
2949 \defbeamer*template*{abstract begin}{default}
2950 {\beamer*colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil

```



```

2951
2952 \bidi@undef\beamer@tmpop@button@default
2953
2954 \defbeamertemplate*{button}{default}
2955 {%
2956 \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2957 \ht\beamer@tempbox=6pt%
2958 \dp\beamer@tempbox=0pt%
2959 \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2960 \beamer@tempdim=\wd\beamer@tempbox%
2961 \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2962 \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2963 \if@RTL
2964 \kern4pt%
2965 \box\beamer@tempbox%
2966 \hskip-\beamer@tempdim%
2967 \fi
2968 \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2969 \color{bg}
2970 \pgfsetlinewidth{0.8pt}
2971 \pgfpathqmoveto{0pt}{0pt}
2972 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2973 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2974 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2975 \pgfpathcurveto%
2976 {\pgfpoint{\the\beamer@dima}{8pt}}%
2977 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2978 {\pgfpoint{\the\beamer@dimb}{4pt}}
2979 \pgfpathcurveto%
2980 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2981 {\pgfpoint{\the\beamer@dima}{0pt}}%
2982 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2983 \pgfpathclose
2984 \pgfusepathqfill
2985 \colorlet{bg}{parent.bg}
2986 \usebeamercolor[fg]{button border}
2987 \pgfpathqmoveto{0pt}{0pt}
2988 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2989 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2990 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2991 \pgfpathcurveto%
2992 {\pgfpoint{\the\beamer@dima}{8pt}}%
2993 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2994 {\pgfpoint{\the\beamer@dimb}{4pt}}
2995 \pgfpathcurveto%
2996 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2997 {\pgfpoint{\the\beamer@dima}{0pt}}%
2998 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2999 \pgfpathclose
3000 \pgfusepathqstroke
3001 \end{pgfpicture}%
3002 \if@RTL
3003 \else
3004 \hskip-\beamer@tempdim%

```



```

3005   \box\beamer@tempbox%
3006   \kern4pt%
3007 \fi
3008 }
3009
3010

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3011 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for bea
3012 \setbeamertemplate{sections/subsections in toc}[circle]
3013

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3014 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3015 \setbeamertemplate{section in toc}[square]
3016 \setbeamertemplate{subsection in toc}[square]
3017
3018 \setbeamertemplate{itemize items}[square]
3019 \setbeamertemplate{itemize subitem}[triangle]
3020
3021 \bidi@csundef{beamer@@tmpop@title page@focus}
3022
3023 \defbeamertemplate*{title page}{focus}{%
3024   {%
3025     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3026     \begin{tikzpicture}[overlay, remember picture]
3027       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3028     \end{tikzpicture}
3029   }
3030
3031   \vspace{-1.65\baselineskip}
3032   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3033     \vspace{\baselineskip}
3034     \usebeamerfont{title}
3035     \usebeamercolor[fg]{frametitle}
3036     \inserttitle
3037   \end{minipage}
3038
3039   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3040     \usebeamerfont{subtitle}
3041     \usebeamercolor[fg]{frametitle}
3042     \insertsubtitle
3043   \end{minipage}
3044
3045   % Set the title graphic in a zero-height box, so that
3046   % the position of other elements is not affected.
3047   {\vfuzz=9999pt\vbox to 0pt {
3048     \if@RTL
3049       \raggedright
3050     \else
3051       \raggedleft
3052     \fi

```



```

3053     \inserttitlegraphic
3054   }}
3055
3056   \begin{minipage}[t]{\textwidth}
3057     \usebeamerfont{author}
3058     \insertauthor
3059   \end{minipage}
3060
3061   \vspace*{\baselineskip}
3062   \begin{minipage}[t]{\textwidth}
3063     \usebeamerfont{institute}
3064     \insertinstitute
3065   \end{minipage}
3066
3067   \vspace*{\baselineskip}
3068   \begin{minipage}[t]{\textwidth}
3069     \usebeamerfont{date}
3070     \insertdate
3071   \end{minipage}
3072
3073   \vspace*{0pt plus 100fill}
3074
3075   \addtocounter{framenummer}{-1}
3076   \addtocounter{realframenummer}{-1}
3077 }
3078
3079
3080

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3081 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3082 \AtBeginDocument{%
3083   \setbeamerfont{sidebar width left=.25\paperwidth}%
3084 }
3085
3086 \bidi@csundef{beamer@tmpop@section in toc@inmargin}
3087
3088 \bidi@csundef{beamer@tmpop@title page@inmargin}
3089
3090 \bidi@csundef{beamer@tmpop@block begin@inmargin}
3091
3092 \bidi@csundef{beamer@tmpop@block end@inmargin}
3093
3094 \bidi@csundef{beamer@tmpop@block alerted begin@inmargin}
3095
3096 \bidi@csundef{beamer@tmpop@block alerted end@inmargin}
3097
3098 \bidi@csundef{beamer@tmpop@block example begin@inmargin}
3099
3100 \bidi@csundef{beamer@tmpop@block example end@inmargin}
3101
3102 \defbeamerfont{section in toc}{inmargin}
3103 {\leavevmode

```




```

3104 \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3105
3106 \defbeamerteremplate*{title page}{inmargin}
3107 {
3108   \begin{block}{\inserttitleindicator}
3109     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3110     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3111   \end{block}
3112   \vfill
3113   \ifx\insertauthor\@empty
3114   \else
3115     \begin{block}{\insertauthorindicator}
3116       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3117     \end{block}
3118     \fi
3119     \ifx\insertinstitute\@empty
3120     \else
3121       \begin{block}{\insertinstituteindicator}
3122         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3123       \end{block}
3124       \fi
3125       \ifx\insertdate\@empty
3126       \else
3127         \begin{block}{\insertdateindicator}
3128           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3129         \end{block}
3130         \fi
3131     }
3132
3133 \defbeamerteremplate*{block begin}{inmargin}
3134 {
3135   \par\vskip\medskipamount%
3136   \leavevmode%
3137   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\vfill}
3138   \beginL\beamer@putright
3139   %\usebeamercolor[fg]{block body}% to be done!
3140 }
3141
3142 \defbeamerteremplate*{block end}{inmargin}
3143 {\endbeamer@putright\endL\vskip\smallskipamount}
3144
3145 \defbeamerteremplate*{block alerted begin}{inmargin}
3146 {
3147   \par\vskip\medskipamount%
3148   \leavevmode%
3149   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block title alerted}}\vfill}
3150   \beginL\beamer@putright
3151   %\usebeamercolor[fg]{block body alerted}% to be done!
3152 }
3153
3154 \defbeamerteremplate*{block alerted end}{inmargin}
3155 {\endbeamer@putright\endL\vskip\smallskipamount}
3156
3157 \defbeamerteremplate*{block example begin}{inmargin}

```



```

3158 {
3159   \par\vskip\medskipamount%
3160   \leavevmode%
3161   \beamer@putleft{\normalfont{\usebeamerfont{fg}{block title example}}\usebeamerfont*{block
3162   \beginL\beamer@putright
3163   %\usebeamerfont{fg}{block body example}% to be done
3164 }
3165
3166 \defbeamertemplate*{block example end}{inmargin}
3167 {\endbeamer@putright\endL\vskip\smallskipamount}
3168
3169 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3170   \setbeamertemplate{section in toc}[inmargin]%
3171   \setbeamertemplate{subsection in toc}[inmargin]%
3172   \setbeamertemplate{subsubsection in toc}[inmargin]%
3173 }
3174
3175

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3176 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3177 \setbeamertemplate{title}{
3178   \bidi@beamer@ragged%
3179   \linespread{1.0}%
3180   \inserttitle%
3181   \par%
3182   \vspace*{0.5em}
3183 }
3184
3185 \setbeamertemplate{subtitle}{
3186   \bidi@beamer@ragged%
3187   \insertsubtitle%
3188   \par%
3189   \vspace*{0.5em}
3190 }
3191
3192 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3193
3194 \defbeamertemplate{section page}{progressbar}{
3195   \centering
3196   \begin{minipage}{22em}
3197     \bidi@beamer@ragged
3198     \usebeamerfont{fg}{section title}
3199     \usebeamerfont{section title}
3200     \insertsectionhead\[-1ex]
3201     \usebeamertemplate*{progress bar in section page}
3202     \par
3203     \ifx\insertsubsectionhead\@empty\else%
3204       \usebeamerfont{fg}{subsection title}%
3205       \usebeamerfont{subsection title}%
3206       \insertsubsectionhead
3207     \fi
3208   \end{minipage}

```



```

3209 \par
3210 \vspace{\baselineskip}
3211 }
3212
3213 \setbeamertemplate{progress bar in section page}{
3214 \setlength{\metropolis@progressonsectionpage}{%
3215 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3216 }%
3217 \begin{tikzpicture}
3218 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3219 \if@RTLmain
3220 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage);
3221 \else
3222 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage);
3223 \fi
3224 \end{tikzpicture}%
3225 }
3226
3227 \renewcommand{\metropolis@block}[1]{
3228 \par\vskip\medskipamount%
3229 \setlength{\parskip}{Opt}
3230 \ifbeamercolorempy[bg]{block title#1}{%
3231 \if@RTL
3232 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3233 \else
3234 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3235 \fi
3236 }{%
3237 \ifbeamercolorempy[bg]{block title}{%
3238 \if@RTL
3239 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3240 \else
3241 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3242 \fi
3243 }%
3244 }%
3245 \if@RTL
3246 \begin{beamercolorbox}[
3247 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3248 rightskip=\metropolis@blockadjust,
3249 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3250 ]{block title#1}%
3251 \else
3252 \begin{beamercolorbox}[
3253 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3254 leftskip=\metropolis@blockadjust,
3255 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3256 ]{block title#1}%
3257 \fi
3258 }}%
3259 \usebeamerfont*{block title#1}%
3260 \metropolis@strut%
3261 \insertblocktitle%
3262 \metropolis@strut%

```



```

3263 \end{beamercolorbox}%
3264 \nointerlineskip%
3265 \ifbeamercoloreempty[bg]{block body#1}{%
3266   \begin{beamercolorbox}[vmode]{block body#1}}{
3267   \ifbeamercoloreempty[bg]{block body}{%
3268     \begin{beamercolorbox}[vmode]{block body#1}%
3269   }{%
3270     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3271     \vspace{-\metropolis@parskip}
3272   }}%
3273     \usebeamerfont{block body#1}%
3274     \setlength{\parskip}{\metropolis@parskip}%
3275 }
3276
3277
3278 \setbeamertemplate{footnote}{%
3279   \parindent 0em\noindent%
3280   \bidi@beamer@ragged
3281   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3282 }
3283
3284 \setbeamertemplate{RTLfootnote}{%
3285   \parindent 0em\noindent%
3286   \raggedleft
3287   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3288 }
3289
3290 \setbeamertemplate{LTRfootnote}{%
3291   \parindent 0em\noindent%
3292   \raggedright
3293   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{itemize items}{\textbullet}
3297
3298 \setbeamertemplate{section page}[progressbar]
3299
3300

```

30 [File beamerinnerthemerectangles-xetex-bidi.def](#)

```

3301 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3302 \setbeamertemplate{sections/subsections in toc}[square]
3303 \setbeamertemplate{items}[square]
3304

```

31 [File beamerinnerthemrounded-xetex-bidi.def](#)

```

3305 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3306 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3307 \setbeamertemplate{items}[ball]
3308 \setbeamertemplate{sections/subsections in toc}[ball]
3309

```



32 File beamerouterthemedefault-xetex-bidi.def

```
3310 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3311 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3312
3313 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3314
3315 \AtBeginDocument{%
3316   \if@RTLmain
3317     \setbeamertemplate{frametitle}[default][right]
3318   \fi
3319 }
3320
3321 \bidi@csundef{beamer@tmpop@note page@default}
3322
3323 \newcommand*{\bidi@beamer@today}{%
3324 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3325
3326 \defbeamer*{note page}{default}
3327 {%
3328   {%
3329     \scriptsize
3330     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3331     \ifbeamercolorempy[bg]{note title}{-}{%
3332       \insertvrule{.25\paperheight}{note title.bg}%
3333       \vskip-.25\paperheight%
3334       \nointerlineskip%
3335     }%
3336     \vbox{
3337       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3338       \vskip-0.25\paperheight%
3339       \nointerlineskip
3340       \if@RTL
3341         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3342           \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3343             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3344             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3345           \end{pgflowlevelslope}
3346         \end{pgfpicture}%
3347       \else
3348         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3349           \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3350             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3351             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3352           \end{pgflowlevelslope}
3353         \end{pgfpicture}%
3354       \fi
3355       \nointerlineskip
3356       \vbox to .25\paperheight{\vskip0.5em
3357       \if@RTL
3358         \moveright0.25\textwidth
3359       \fi
3360       \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3361       \setbox\beamer@tempbox=\hbox{\insertsection}%
```



```

3362
3363 \if@RTL
3364 \moveright\dimexpr0.29\textwidth-14pt\relax
3365 \fi
3366 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3367     width0.4pt height7pt\vrule width 9pt
3368     height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi%
3369     \if@RTL\endR\fi}%
3370     \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3371
3372 \if@RTL
3373 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3374 \fi     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3375     width0.4pt height7pt\vrule width 9pt
3376     height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi%
3377     \if@RTL\endR\fi}%
3378     \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3379
3380 \if@RTL
3381 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3382 \fi     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3383     width0.4pt height7pt\vrule width 9pt
3384     height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3385     \if@RTL\endR\fi}%
3386     \vfil}%
3387 }%
3388 \ifbeamercoloreempty[bg]{note page}{-}{-}%
3389 \nointerlineskip%
3390 \insertvrule{.75\paperheight}{note page.bg}%
3391 \vskip-.75\paperheight%
3392 }%
3393 \vskip.25em
3394 \nointerlineskip
3395 \insertnote
3396 }
3397
3398
3399

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3400 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3401 \bidi\undef\beamer@tmpop@footline@progressbar
3402
3403 \defbeamer*template*{footline}{progressbar}{%
3404     % If not appendix.
3405     \ifnum\mainend<0% From package appendixnumberbeamer.
3406     %
3407     \settowidth{\focus@pbar@leftoffset}{1}%
3408     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3409     %
3410     \ifx\beamer@focus@totalframenum\no%
3411     \settowidth{\focus@pbar@rightoffset}{-}%
3412     \addtolength{\focus@pbar@rightoffset}{0.5em}%

```



```

3413     \else%
3414         \settoheight{\focus@pbar@rightoffset}{\inserttotalframenumbers}%
3415         \addtolength{\focus@pbar@rightoffset}{1.5em}%
3416     \fi%
3417     %
3418     % If not title page.
3419     \ifnum\value{realframenumbers}>0%
3420         \ifnum\value{framenumbers}<\inserttotalframenumbers%
3421             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3422                 \pgfmathsetmacro{\focus@pbar@progress}%
3423                     {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumbers-\value{framenumbers})/\inserttotalframenumbers}
3424
3425                 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3426 \if@RTLmain
3427                 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3428                 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3429                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3430 \else
3431                 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3432                 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset,
3433                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3434 \fi
3435                 \ifx\beamer@focus@totalframenumbersing\no%
3436                 \else%
3437 \if@RTLmain
3438                 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height);
3439                 \fill[footline.bg] (\paperwidth-\the\focus@pbar@rightoffset,0) rectangle
3440                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3441 \else
3442                 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height);
3443                 \fill[footline.bg] (\paperwidth-\the\focus@pbar@rightoffset,0) rectangle
3444                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3445 \fi
3446                 \end{tikzpicture}%
3447     \else%
3448         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3449             \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3450 \if@RTLmain
3451             \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3452 \else
3453             \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3454 \fi
3455             \ifx\beamer@focus@totalframenumbersing\no%
3456             \else%
3457 \if@RTLmain
3458                 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3459                 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3460 \else
3461                 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3462                 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3463 \fi
3464             \fi%
3465             \end{tikzpicture}%
3466     \fi%

```



```

3467         \fi%
3468     \fi%
3469 }
3470
3471

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3472 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3473 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3474
3475 \defbeamertemplate*{footline}{infolines theme}
3476 {%
3477     \leavevmode%
3478     \hbox{%
3479         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3480             \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3481         \end{beamercolorbox}%
3482         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3483             \usebeamerfont{title in head/foot}\insertshorttitle
3484         \end{beamercolorbox}%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3486             \hfill%
3487             \usebeamerfont{date in head/foot}%
3488             \insertshortdate{}%
3489             \hfill%
3490             \bgroup
3491             \usebeamercolor[fg]{page number in head/foot}%
3492             \usebeamerfont{page number in head/foot}%
3493             \usebeamertemplate{page number in head/foot}%
3494             \egroup
3495         \end{beamercolorbox}}%
3496         \vskip0pt%
3497     }
3498
3499 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3500
3501 \defbeamertemplate*{headline}{infolines theme}
3502 {%
3503     \leavevmode%
3504     \hbox{%
3505         \if@RTL
3506             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3507         \else
3508             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3509         \fi
3510             \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3511         \end{beamercolorbox}%
3512         \if@RTL
3513             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3514         \else
3515             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3516         \fi
3517             \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead

```




```

3518 \end{beamercolorbox}}}%
3519 \vskipOpt%
3520 }
3521
3522 \bidi@AfterFile{beamerouterthemesplit-xetex-bidi.def}{%
3523 \setbeamertemplate{footline}[infolines theme]%
3524 }
3525

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3526 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3527 \setbeamertemplate{progress bar in head/foot}{
3528 \nointerlineskip
3529 \setlength{\metropolis@progressinheadfoot}{%
3530 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3531 }%
3532 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3533 \begin{tikzpicture}
3534 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3535 \if@RTLmain
3536 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3537 \else
3538 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3539 \fi
3540 \end{tikzpicture}}%
3541 \end{beamercolorbox}
3542 }
3543
3544 \AtBeginDocument{%
3545 \setbeamertemplate{frametitle}[plain]%
3546 }
3547
3548

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3549 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3550 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3551
3552 \defbeamertemplate*{headline}{miniframes theme}
3553 {%
3554 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3555 \end{beamercolorbox}
3556 \begin{beamercolorbox}{section in head/foot}
3557 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3558 \end{beamercolorbox}}%
3559 \ifbeamer@theme@subsection%
3560 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3561 \end{beamercolorbox}
3562 \if@RTL
3563 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3564 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3565 \else

```



```

3566 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3567 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3568 \fi
3569 \usebeamerfont{subsection in head/footer}\insertsubsectionhead
3570 \end{beamercolorbox}%
3571 \fi%
3572 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3573 \end{beamercolorbox}
3574 }
3575
3576

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3577 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3578 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3579
3580 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3581
3582 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3583
3584 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3585
3586 \ifdim\beamer@headheight>0pt
3587
3588 \defbeamer*template*{frametitle}{sidebar theme}
3589 {%
3590 \nointerlineskip%
3591 \ifbeamer@plainframe%
3592 \hbox{\usebeamercolor[bg]{frametitle}%
3593 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3594 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3595 \nointerlineskip%
3596 \fi%
3597 \vskip-\beamer@headheight%
3598 \vbox to \beamer@headheight{%
3599 \vfil
3600 \bidi@beamer@leftskip=-\beamer@leftmargin%
3601 \advance\bidi@beamer@leftskip by0.3cm%
3602 \bidi@beamer@rightskip=-\beamer@rightmargin%
3603 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3604 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3605 \ifx\insertframesubtitle\@empty\else%
3606 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3607 \fi%
3608 \vbox{}%
3609 \vskip-1em%
3610 \vfil
3611 }%
3612 }
3613
3614 \AtBeginDocument{%
3615 \setbeamer*template{frametitle}{sidebar theme}%
3616 }

```



```

3617
3618 \defbeamertheme*{headline}{sidebar theme}
3619 {%
3620 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3621 \ifx\beamer@sidebarside\beamer@lefttext%
3622 \else%
3623 \hfill%
3624 \fi%
3625 \ifdim\beamer@sidebarwidth>Opt%
3626 \bgroup
3627 \usebeamercolor[bg]{logo}%
3628 \if@RTLmain
3629 \else
3630 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3631 \hskip-\beamer@sidebarwidth%
3632 \fi
3633 \hbox to \beamer@sidebarwidth{\hss\vbox to
3634 \beamer@headheight{\vss\hbox{\color{fg}\insertlogo}\vss}\hss}%
3635 \if@RTLmain
3636 \hskip-\beamer@sidebarwidth%
3637 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3638 \fi
3639 \egroup
3640 \else%
3641 \vrule widthOpt height \beamer@headheight%
3642 \fi%
3643 \end{beamercolorbox}
3644 }
3645 \fi
3646
3647 \def\beamer@sidebarformat#1#2#3{%
3648 \if@RTL
3649 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3650 \else
3651 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3652 \fi
3653 \vbox{%
3654 #3\par%
3655 \vbox{%
3656 \vskip-1.5ex%
3657 \end{beamercolorbox}
3658 }
3659
3660 \ifdim\beamer@sidebarwidth>Opt
3661
3662 \AtBeginDocument{%
3663 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3664 }
3665
3666 \defbeamertheme*{sidebar \beamer@sidebarside}{sidebar theme}
3667 {
3668 \beamer@tempdim=\beamer@sidebarwidth%
3669 \advance\beamer@tempdim by -6pt%
3670 {\usebeamerfont{title in sidebar}%

```



```

3671     \vskip1.5em%
3672     \hskip3pt%
3673     \bgroup
3674     \usebeamercolor[fg]{title in sidebar}%
3675     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3676     \vskip1.25em%
3677   }%
3678   {%
3679     \hskip3pt%
3680     \bgroup
3681     \usebeamercolor[fg]{author in sidebar}%
3682     \usebeamerfont{author in sidebar}%
3683     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3684     \vskip1.25em%
3685   }%
3686   \insertverticalnavigation{\beamer@sidebarwidth}%
3687   \vfill
3688   \ifx\beamer@sidebarside\beamer@lefttext%
3689     \else%
3690       \usebeamercolor{normal text}%
3691       \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3692       \vskip2pt%
3693     \fi%
3694   }%
3695 \fi
3696

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3697 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3698 \bidi\csundef{beamer@tmpop@footline@split theme}
3699
3700 \defbeamertemplate*{footline}{split theme}
3701 {%
3702   \leavevmode%
3703   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3704 \else
3705 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3706 \fi
3707   \usebeamerfont{author in head/foot}\insertshortauthor
3708   \end{beamercolorbox}}%
3709 \if@RTL
3710   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3711 \else
3712   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3713 \fi
3714   \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3715   \end{beamercolorbox}}}%
3716   \vskip0pt%
3717 }
3718
3719

```



39 File beamerouterthemeshadow-xetex-bidi.def

```
3720 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3721 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3722   color(0pt)=(frametitle right.bg);
3723   color(\paperwidth)=(frametitle.bg)
3724 }
3725
3726 \newcommand*{\bidi@beamer@frametitleshade}{%
3727   \if@RTLmain
3728     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3729   \else
3730     \pgfuses shading{beamer@frametitleshade}%
3731   \fi
3732 }
3733
3734 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3735
3736 \defbeamer template*{frametitle}{shadow theme}
3737 {%
3738   \nointerlineskip%
3739   \vskip-2pt%
3740   \hbox{\leavevmode
3741     \advance\beamer@leftmargin by -12bp%
3742     \advance\beamer@rightmargin by -12bp%
3743     \beamer@tempdim=\textwidth%
3744     \advance\beamer@tempdim by \beamer@leftmargin%
3745     \advance\beamer@tempdim by \beamer@rightmargin%
3746     \hskip-\Gm@lmargin\hbox{%
3747       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3748         \vbox{\vskip-.75ex%
3749           \bidi@beamer@leftskip0.3cm%
3750           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3751           \bgroup\usebeamer color{fg}{frametitle}\usebeamer font{frametitle}\strut\insertframe
3752           \ifx\insertframesubtitle@empty\else%
3753             {\usebeamer font*{framesubtitle}{\usebeamer color{fg}{framesubtitle}\insertframesu
3754           \fi%
3755           \nointerlineskip
3756           \vbox{}%
3757         \end{minipage}}%
3758       \beamer@tempdim=\ht\beamer@tempbox%
3759       \advance\beamer@tempdim by 2pt%
3760       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3761         \begin{pgfscope}
3762           \pgfsetfillcolor{black}%
3763           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3764           \pgfsetfading{beamer@topshadowmask}{}%
3765           \pgfusepath{fill}%
3766         \end{pgfscope}
3767         \begin{pgfscope}
3768           \usebeamer color{frametitle right}%
3769           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3770           \pgfusepath{clip}%
3771           \pgftext[left,base]{\bidi@beamer@frametitleshade}%

```



```

3772         \end{pgfscope}
3773         \end{pgfpicture}
3774         \hskip-\paperwidth%
3775         \box\beamer@tempbox%
3776     }%
3777     \hskip-\Gm@margin%
3778 }%
3779 \vskip-2pt
3780 }
3781
3782 \AtBeginDocument{%
3783     \setbeamertheme{frametitle}[shadow theme]%
3784 }
3785
3786

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3787 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3788 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3789
3790 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3791
3792 \defbeamertheme*{headline}{smoothbars theme}
3793 {%
3794     \pgfuseshading{beamer@barshade}%
3795     \vskip-0.05ex%
3796     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3797     \begin{pgfpicture}
3798         \begin{pgfscope}%
3799             \ifbeamer@sb@subsection%
3800                 \pgfsetfillcolor{subsection in head/foot.bg}%
3801             \else%
3802                 \pgfsetfillcolor{section in head/foot.bg}%
3803             \fi%
3804             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3805             \pgfsetfading{beamer@belowframetitlemask}{}%
3806             \pgfusepath{fill}%
3807         \end{pgfscope}%
3808     \end{pgfpicture}%
3809     \end{beamercolorbox}%
3810     \ifbeamer@sb@subsection%
3811         \vskip-9.75ex%
3812     \else%
3813         \vskip-6.85ex%
3814     \fi%
3815     \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3816         \insertnavigation{\paperwidth}
3817     \end{beamercolorbox}%
3818     \ifbeamer@sb@subsection%
3819     \ifRTL
3820         \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3821             rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3822     \else

```



```

3823   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3824     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3825   \fi
3826     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3827   \end{beamercolorbox}%
3828 \fi%
3829 }%
3830
3831 \defbeamertemplate*{frametitle}{smoothbars theme}
3832 {%
3833   \nointerlineskip%
3834   \vskip-0.19ex%
3835   \usebeamerfont{headline}%
3836   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3837     \pgfuses shading{beamer@aboveframetitle}%
3838   \end{beamercolorbox}%
3839   \vskip-1ex%
3840   \nointerlineskip%
3841   \if@RTL
3842     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3843   \else
3844     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3845   \fi
3846     \vskip0.5ex%
3847     \usebeamerfont*{frametitle}\strut\insertframetitle%
3848     \ifx\insertframesubtitle\@empty%
3849       \strut\par%
3850     \else
3851       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertf
3852     \fi}%
3853     \usebeamerfont{headline}%
3854     \vskip0.05ex%
3855   \end{beamercolorbox}%
3856   \nointerlineskip%
3857   \vskip-0.05ex%
3858   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3859   \begin{pgfpicture}
3860     \begin{pgfscope}%
3861       \pgfsetfillcolor{frametitle.bg}%
3862       \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3863       \pgfsetfading{beamer@belowframetitlemask}{}%
3864       \pgfusepath{fill}%
3865     \end{pgfscope}%
3866   \end{pgfpicture}%
3867   \end{beamercolorbox}%
3868 }
3869
3870 \AtBeginDocument{%
3871   \setbeamertemplate{frametitle}[smoothbars theme]%
3872 }
3873
3874

```



41 File beamerouterthemesmoothtree-xetex-bidi.def

```
3875 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3876 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3877
3878 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3879
3880 \defbeamer*{headline}{smoothtree theme}
3881 {%
3882   \pgfuses shading{beamer@treeshade}%
3883   \vskip-0.05ex%
3884   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3885   \begin{pgf picture}
3886     \begin{pgf scope}%
3887       \pgfsetfillcolor{subsection in head/foot.bg}%
3888       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3889       \pgfsetfading{beamer@belowframetitlemask}{}%
3890       \pgfusepath{fill}%
3891     \end{pgf scope}%
3892   \end{pgf picture}%
3893   \end{beamer colorbox}%
3894   \vskip-9.15ex%
3895   \if@RTL
3896     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3897       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3898   \else
3899     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3900       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3901     \fi
3902     \usebeamerfont{title in head/foot}\insertshorttitle
3903   \end{beamer colorbox}
3904   \if@RTL
3905     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3906       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3907   \else
3908     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3909       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3910     \fi
3911     \usebeamerfont{section in head/foot}%
3912     \hskip6pt\insertsectionhead
3913   \end{beamer colorbox}
3914   \if@RTL
3915     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3916       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3917   \else
3918     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3920     \fi
3921     \usebeamerfont{subsection in head/foot}%
3922     \hskip12pt\insertsubsectionhead
3923   \end{beamer colorbox}
3924   \vskip-0.4ex%
3925 }
3926
```




```

3927 \defbeamertheme*{frametitle}{smoothtree theme}
3928 {%
3929   \nointerlineskip%
3930   \vskip-0.05ex%
3931   \usebeamerfont{headline}%
3932   \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3933     \pgfuses shading{beamer@aboveframetitle}%
3934   \end{beamercolorbox}
3935   \nointerlineskip%
3936   \if@RTL
3937     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3938   \else
3939     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3940   \fi
3941     \vskip-1.2ex%
3942     \usebeamerfont*{frametitle}\strut\insertframetitle%
3943     \ifx\insertframesubtitle\@empty%
3944       \strut\par%
3945     \else
3946       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3947     \fi%
3948     \usebeamerfont{headline}%
3949   \end{beamercolorbox}%
3950   \nointerlineskip
3951   \vskip-0.2ex%
3952   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3953   \begin{pgfpicture}
3954     \begin{pgfscope}%
3955       \pgfsetfillcolor{frametitle.bg}%
3956       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3957       \pgfsetfading{beamer@belowframetitlemask}{}%
3958       \pgfusepath{fill}%
3959     \end{pgfscope}%
3960   \end{pgfpicture}%
3961   \end{beamercolorbox}%
3962 }
3963
3964
3965 \AtBeginDocument{%
3966   \setbeamertheme{frametitle}[smoothtree theme]%
3967 }
3968
3969

```

42 File beamerouterthemetree-xetex-bidi.def

```

3970 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3971 \bidi@csundef{beamer@tmpop@headline@tree theme}
3972
3973 \defbeamertheme*{headline}{tree theme}
3974 {%
3975   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3976   \end{beamercolorbox}
3977   \if@RTL

```



```

3978 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3979 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3980 \else
3981 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3982 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3983 \fi
3984 \usebeamerfont{title in head/foot}\insertshorttitle
3985 \end{beamercolorbox}
3986 \if@RTL
3987 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3989 \else
3990 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3991 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3992 \fi
3993 \usebeamerfont{section in head/foot}%
3994 \ifbeamer@tree@showhooks
3995 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3996 \ifdim\wd\beamer@tempbox>1pt%
3997 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
3998 \hskip1pt%
3999 \fi%
4000 \else%
4001 \hskip6pt%
4002 \fi%
4003 \insertsectionhead
4004 \end{beamercolorbox}
4005 \if@RTL
4006 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4007 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4008 \else
4009 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4010 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4011 \fi
4012 \usebeamerfont{subsection in head/foot}%
4013 \ifbeamer@tree@showhooks
4014 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4015 \ifdim\wd\beamer@tempbox>1pt%
4016 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4017 \hskip1pt%
4018 \fi%
4019 \else%
4020 \hskip12pt%
4021 \fi%
4022 \insertsubsectionhead
4023 \end{beamercolorbox}
4024 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4025 \end{beamercolorbox}
4026 }
4027
4028

```

43 File beamerthemeHannover-xetex-bidi.def



```

4029 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4030 \AtBeginDocument{%
4031   \if@RTLmain
4032     \setbeamertemplate{frametitle}[default][left]%
4033   \else
4034     \setbeamertemplate{frametitle}[default][right]%
4035   \fi
4036 }
4037
4038

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4039 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4040 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
4041
4042 \beamertemplatedotitem
4043
4044 \AtBeginDocument{%
4045   \setbeamertemplate{frametitle}[default][center]%
4046 }
4047
4048

```

45 File bidi.sty

```

4049 \NeedsTeXFormat{LaTeX2e}
4050 \def\bididate{2025/01/05}
4051 \def\bidi@version{41.1}
4052 \def\bidi@releasename{Maryam Mirzakhani}
4053 \newcommand*{\bidireleasename}{\bidi@releasename}
4054 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4055 Bidirectional typesetting in plain TeX and LaTeX]
4056 \newif\if@bidi@banner
4057 \newif\if@bidi@pdfbanner
4058 \newif\iffootdir@debug
4059 \newif\if@extrafootnotefeatures
4060 \newif\if@nonlatin
4061 \newif\if@bidi@pdfm@mark
4062 \newif\if@bidi@perpage@footnote
4063 \ExplSyntaxOn
4064 \keys_define:nn { bidi }
4065 {
4066   banner .choice: ,
4067   banner / on .code:n = \@bidi@bannertrue ,
4068   banner / off .code:n = \@bidi@bannerfalse ,
4069   banner .default:n = on
4070 }
4071 \keys_define:nn { bidi }
4072 {
4073   PDFbanner .choice: ,
4074   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4075   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4076   PDFbanner .default:n = on

```



```

4077 }
4078 \keys_define:nn { bidi }
4079 {
4080   RTLdocument .choice: ,
4081   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4082   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4083   RTLdocument .default:n = on
4084 }
4085 \keys_define:nn { bidi }
4086 {
4087   rldocument .choice: ,
4088   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4089   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4090   rldocument .default:n = on
4091 }
4092 \keys_define:nn { bidi }
4093 {
4094   documentdirection .choice: ,
4095   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4096   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100   tabledirection .choice: ,
4101   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4102   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4103 }
4104 \keys_define:nn { bidi }
4105 {
4106   footnotedirection .choice: ,
4107   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4108   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4109 }
4110 \keys_define:nn { bidi }
4111 {
4112   debugfootnotedirection .choice: ,
4113   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4114   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4115   debugfootnotedirection .default:n = on
4116 }
4117 \keys_define:nn { bidi }
4118 {
4119   footnoterule .choice: ,
4120   footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4121   footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4122   footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4123   footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4124   footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   extrafootnotefeatures .choice: ,
4129   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4130   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,

```



```

4131   extrafootnotefeatures .default:n = on
4132 }
4133 \keys_define:nn { bidi }
4134 {
4135   script .choice: ,
4136   script / latin .code:n = \@nonlatinfalse ,
4137   script / nonlatin .code:n = \@nonlatintrue ,
4138   script .default:n = latin
4139 }
4140 \keys_define:nn { bidi }
4141 {
4142   DetectColumn .choice: ,
4143   DetectColumn / on .code:n =
4144     \def\bidi@firstcolumn@status@write{%
4145       \protected@write\@auxout{%
4146         {\string\bidi@column@status
4147           {1}}}
4148     \def\bidi@lastcolumn@status@write{%
4149       \protected@write\@auxout{%
4150         {\string\bidi@column@status{2}}} ,
4151   DetectColumn / off .code:n =
4152     \let\bidi@firstcolumn@status@write\relax
4153     \let\bidi@lastcolumn@status@write\relax ,
4154   DetectColumn .default:n = on
4155 }
4156 \keys_define:nn { bidi }
4157 {
4158   logo .choice: ,
4159   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4160   logo / off .code:n = \let\@bidi@logo@\empty \let\@bidi@inslogo@\empty ,
4161   logo .default:n = on
4162 }
4163 \keys_define:nn { bidi }
4164 {
4165   pdfinfo .choice: ,
4166   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4167   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4168   pdfinfo .default:n = on
4169 }
4170 % The `perpagefootnote' option is documented in UK TeX FAQ at
4171 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4172 \keys_define:nn { bidi }
4173 {
4174   perpagefootnote .choice: ,
4175   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4176   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4177   perpagefootnote .default:n = on
4178 }
4179 \keys_set:nn { bidi }
4180 {
4181   banner = on ,
4182   PDFbanner = on ,
4183   DetectColumn = off
4184 }

```



```

4185 }
4186 \ExplSyntaxOff
4187 \ProcessKeyOptions
4188 \edef\@bidi@info{*****~J%
4189 * ~J%
4190 * bidi package (Bidirectional typesetting in~J%
4191 * plain TeX and LaTeX, using XeTeX engine)~J%
4192 * ~J%
4193 * Description: A convenient interface for~J%
4194 * typesetting bidirectional texts in plain TeX~J%
4195 * and LaTeX. The package includes adaptations~J%
4196 * for use with many other commonly-used packages.~J%
4197 * ~J%
4198 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4199 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4200 * ~J%
4201 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4202 * ~J%
4203 * License: LaTeX Project Public License, version~J%
4204 * 1.3c or higher (your choice)~J%
4205 * ~J%
4206 * Location on CTAN: /macros/xetex/latex/bidi~J%
4207 * ~J%
4208 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4209 * ~J%
4210 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4211 * ~J%
4212 * Primary author of bidi package: Vafa Khalighi.~J%
4213 * ~J%
4214 *****}
4215 \edef\bidi@everyjob{\the\everyjob}
4216 \if@bidi@banner
4217 \typeout{\@bidi@info}
4218 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4219 \fi
4220 \newcommand*\bidi@version{\ensuremath\bidi@version}
4221 \newcommand*\IfbidiPackageVersionLater}[1]{%
4222 \ifdim\bidi@version pt > #1 pt %
4223 \expandafter\@firstoftwo
4224 \else
4225 \expandafter\@secondoftwo
4226 \fi}
4227 \newcommand*\IfbidiPackageVersionBefore}[1]{%
4228 \ifdim\bidi@version pt < #1 pt %
4229 \expandafter\@firstoftwo
4230 \else
4231 \expandafter\@secondoftwo
4232 \fi}
4233 \newcommand*\IfbidiPackageVersion}[1]{%
4234 \ifdim\bidi@version pt = #1 pt %
4235 \expandafter\@firstoftwo
4236 \else
4237 \expandafter\@secondoftwo
4238 \fi}

```



```

4239 \RequirePackage{iftex}
4240 \RequireXeTeX
4241 \RequirePackage{bidiutils}
4242 \RequirePackage{zref-abspage}
4243 \RequirePackage{auxhook}
4244 \RequirePackage{ltxcmds}
4245 \eqnewif{\if@RTLmain}{\if@rlmain}
4246 \eqnewif{\if@RTL}{\if@rl}
4247 \newcommand*\setlatin{\@nonlatinfalse}
4248 \newcommand*\setnonlatin{\@nonlatintrue}
4249 \eqnewif{\if@RTLtab}{\if@tab@rl}
4250 \newif\if@hboxRconstruct
4251 \newif\if@bidi@pdfencrypt
4252 \newcommand*\setRTLtable{\@RTLtabtrue}
4253 \newcommand*\setLTRtable{\@RTLtabfalse}
4254 \newif\if@RTLMarginpar
4255 \newif\if@LTRmarginpar
4256 \newif\if@LTRbibitems
4257 \newif\if@RTLbibitems
4258 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4259 \newif\if@bidi@list@minipage@parbox
4260 \newif\if@bidi@list@minipage@parbox@not@nob
4261 \newcommand*\@bidi@pdfcreator{%
4262   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4263 }
4264 \newcommand*\@bidi@pdfproducer{%
4265   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4266 }
4267 \newcommand*\@bidi@pdfcustomproperties{%
4268   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4269   Released January 5, 2025.
4270 }
4271 \newcommand*\@bidi@beamer@ragged{}
4272 \@RTLmainfalse
4273 \AtBeginDocument{%
4274   \if@RTLmain\else
4275     \if@RTL\@RTLmaintrue%
4276     \else\@RTLmainfalse%
4277     \fi%
4278   \fi%
4279 }
4280 \let\n@xt=\
4281 \bidi@newrobustcmd*\LRE{\protect\pLRE}%
4282 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4283 \bidi@newrobustcmd*\RLE{\protect\pRLE}
4284 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4285 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4286   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4287 \newinsert\@bidi@copyins@
4288 \skip\@bidi@copyins@=12\p@
4289 \dimen\@bidi@copyins@=40pc
4290 \count\@bidi@copyins@=1000
4291 \newcommand*\@bidi@inslogo@\@insert\@bidi@copyins@\@bidi@logo@}
4292 \newcommand*\@bidi@logo@hb@xt@columnwidth}{%

```



```

4293 \if@RTLmain
4294   \if@twocolumn
4295     \hboxR to \columnwidth
4296   \else
4297     \hboxR to \textwidth
4298   \fi
4299 \else
4300   \if@twocolumn
4301     \hboxL to \columnwidth
4302   \else
4303     \hboxL to \textwidth
4304   \fi
4305 \fi
4306 }
4307 \newcommand*{\@bidi@logo}[1]{%
4308   \toks@{%
4309     \setbox\z@\hbox{%
4310       \special{%
4311         pdf:image width 50pt height 50pt (#1)%
4312       }
4313     }%
4314     \dp\z@\z@
4315     \ht\z@=50pt
4316     \wd\z@=50pt
4317     \beginL
4318       \lower20pt\box\z@
4319     \endL
4320   }%
4321   \the\toks@
4322 }
4323 \newcount\bidi@typesethour
4324 \newcount\bidi@typesetminute
4325 \bidi@typesethour=\time
4326 \divide\bidi@typesethour 60
4327 \bidi@typesetminute=-\bidi@typesethour
4328 \multiply\bidi@typesetminute 60
4329 \advance\bidi@typesetminute \time
4330 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4331 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4332 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4333 \newcommand*{\@bidi@logo@}{%
4334   \@bidi@logo@hb@xt@columnwidth
4335   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4336     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4337 \ExplSyntaxOn
4338 \keys_define:nn { bidi / pdfencrypt }
4339 {
4340   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4341   userpassword .default:n =
4342 }
4343 \keys_define:nn { bidi / pdfencrypt }
4344 {
4345   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4346   ownerpassword .default:n =

```




```

4347 }
4348 \keys_define:nn { bidi / pdfencrypt }
4349 {
4350   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4351   keylength .default:n = 128
4352 }
4353 \keys_define:nn { bidi / pdfencrypt }
4354 {
4355   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4356   permissionflags .default:n = 2052
4357 }
4358 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4359 \ExplSyntaxOff
4360 \@onlypreamble\pdfencryptsetup
4361 \input{latex-xetex-bidi.def}
4362
4363 \pdfencryptsetup{%
4364   userpassword,%
4365   ownerpassword,%
4366   keylength,%
4367   permissionflags%
4368 }
4369
4370 \if@extrafootnotefeatures
4371   \input{extrafootnotefeatures-xetex-bidi.def}
4372 \fi
4373 \newcount\bidi@digits
4374 \XeTeXinterchartokenstate=\@ne
4375 \newXeTeXintercharclass\bidi@digits@charclass
4376 \newXeTeXintercharclass\bidi@sepmark@charclass
4377 \XeTeXcharclass \. \bidi@sepmark@charclass
4378 \XeTeXcharclass \- \bidi@sepmark@charclass
4379 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4380 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4381 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4382 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4383 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4384 \bidi@AtEndPreamble{%
4385   \if@bidi@perpage@footnote
4386     \RequirePackage{bidi-perpage}%
4387     \ResetCounterPerPage{footnote}%
4388   \fi
4389   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4390     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4391       \@bidi@pdfencryptfalse
4392     \else
4393       \@bidi@pdfencrypttrue
4394     \fi
4395   \else
4396     \@bidi@pdfencrypttrue
4397   \fi
4398   \if@bidi@pdfencrypt
4399     \special{pdf:encrypt
4400       userpw (\bidi@pdfencrypt@userpassword)

```



```

4401     ownerpw (\bidi@pdfencrypt@ownerpassword)
4402     length \bidi@pdfencrypt@keylength
4403     perm \bidi@pdfencrypt@permissionflags
4404   }%
4405 \fi
4406 }
4407 \if@bidi@pdfbanner
4408 \if@bidi@pdfm@mark
4409   \AtEndDocument{%
4410     \special{pdf:%
4411       docinfo<<%
4412         /Creator(\@bidi@pdfcreator)%
4413         /Producer(\@bidi@pdfproducer)%
4414         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4415         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4416           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4417         }{}%
4418       >>%
4419     }%
4420   }
4421 \else
4422   \AtEndDocument{%
4423     \special{pdf:%
4424       docinfo<<%
4425         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4426         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4427           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4428         }{}%
4429       >>%
4430     }%
4431   }
4432 \fi
4433 \else
4434 \if@bidi@pdfm@mark
4435   \AtEndDocument{%
4436     \special{pdf:%
4437       docinfo<<%
4438         /Creator(\@bidi@pdfcreator)%
4439         /Producer(\@bidi@pdfproducer)%
4440       >>%
4441     }%
4442   }
4443 \fi
4444 \fi

```

46 File bidi.tex

```

4445 \def\bidiidate{2025/01/05}
4446 \catcode`@=11
4447 \def\bidi@version{41.1}
4448 \def\bidi@releasename{Maryam Mirzakhani}
4449 \def\bidi@releasename{\bidi@releasename}
4450 \let \protect \relax
4451 \newlinechar`^^J

```



```

4452 \edef\@bidi@info{*****~J%
4453 * ~J%
4454 * bidi package (Bidirectional typesetting in~J%
4455 * plain TeX and LaTeX, using XeTeX engine)~J%
4456 * ~J%
4457 * Description: A convenient interface for~J%
4458 * typesetting bidirectional texts in plain TeX~J%
4459 * and LaTeX. The package includes adaptations~J%
4460 * for use with many other commonly-used packages.~J%
4461 * ~J%
4462 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4463 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4464 * ~J%
4465 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4466 * ~J%
4467 * License: LaTeX Project Public License, version~J%
4468 * 1.3c or higher (your choice)~J%
4469 * ~J%
4470 * Location on CTAN: /macros/xetex/latex/bidi~J%
4471 * ~J%
4472 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4473 * ~J%
4474 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4475 * ~J%
4476 * Primary author of bidi package: Vafa Khalighi.~J%
4477 * ~J%
4478 *****}
4479 \edef\bidi@everyjob{\the\everyjob}
4480 \message{\@bidi@info}
4481 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4482 \def\bidiversion{%
4483   \relax
4484   \ifmode
4485     \bidi@version
4486   \else
4487     $\bidi@version$
4488   \fi
4489 }
4490 \input iftex.sty
4491 \RequireXeTeX
4492 \newif\if@bidi@pdfm@mark
4493 \newif\if@RTLmain
4494 \newif\if@RTL
4495 \newif\if@hboxRconstruct
4496 \newif\if@sentdir
4497 \newif\if@RTL@footnote
4498 \@RTLmainfalse
4499 \def\setRTLmain{%
4500   \if@RTLmain\else
4501     \if@RTL\@RTLmaintrue%
4502     \else\@RTLmainfalse%
4503     \fi%
4504   \fi%
4505 }

```



```

4506 \let\n@xt=\
4507 \protected\def\LRE{\protect\pLRE}%
4508 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4509 \protected\def\RLE{\protect\pRLE}
4510 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4511 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4512 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4513 \newinsert\@bidi@copyins@
4514 \skip\@bidi@copyins@=12\p@
4515 \dimen\@bidi@copyins@=40pc
4516 \count\@bidi@copyins@=1000
4517 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4518 \def\@bidi@logo@hb@xt@{%
4519 \if@RTLmain
4520 \hboxR to
4521 \else
4522 \hboxL to
4523 \fi
4524 }
4525 \def\@bidi@logo#1{%
4526 \toks@{%
4527 \setbox\z@\hbox{%
4528 \special{%
4529 pdf:image width 50pt height 50pt (#1)%
4530 }
4531 }%
4532 \dp\z@\z@
4533 \ht\z@=50pt
4534 \wd\z@=50pt
4535 \beginL
4536 \lower20pt\box\z@
4537 \endL
4538 }%
4539 \the\toks@
4540 }
4541 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4542 \newcount\bidi@typesethour
4543 \newcount\bidi@typesetminute
4544 \bidi@typesethour=\time
4545 \divide\bidi@typesethour 60
4546 \bidi@typesetminute=-\bidi@typesethour
4547 \multiply\bidi@typesetminute 60
4548 \advance\bidi@typesetminute \time
4549 \def\TypesetHour{\two@digits\bidi@typesethour}
4550 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4551 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4552 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4553 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4554 \def\@bidi@pdfcreator{%
4555 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4556 }
4557 \def\@bidi@pdfproducer{%
4558 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4559 }

```



```

4560 \def\@bidi@pdfcustomproperties{%
4561   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4562   Released January 5, 2025.
4563 }
4564 \def\bidi@pdfm@mark{%
4565   \special{pdf:%
4566     docinfo<<%
4567     \if@bidi@pdfm@mark
4568       /Creator(\@bidi@pdfcreator)%
4569       /Producer(\@bidi@pdfproducer)%
4570     \fi
4571     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4572     >>%
4573   }%
4574 }
4575 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4576 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4577 \input plain-xetex-bidi.def
4578 \@bidi@inslogo@
4579 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark\end}
4580 \catcode\@=12
4581 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4582 \NeedsTeXFormat{LaTeX2e}
4583 \ProvidesPackage{bidi2in1}
4584 \pagestyle{plain}
4585 \newcount\evenpage
4586 \newcount\oddpages
4587 \twocolumn
4588 \def\@oddfoot{\evenpage=\thepage%
4589 \multiply\evenpage by 2%
4590 \oddpages=\the\evenpage%
4591 \advance\oddpages by -1%
4592 \hfil\the\evenpage\hfil\hfil\the\oddpages\hfil}%
4593 \def\@evenfoot{\evenpage=\thepage%
4594 \multiply\evenpage by 2%
4595 \oddpages=\the\evenpage%
4596 \advance\oddpages by -1%
4597 \hfil\the\oddpages\hfil\hfil\the\evenpage\hfil}%
4598 \textwidth 9.49in
4599 \textheight 6.7in
4600 \columnsep 0.9in
4601 \columnseprule 0.125pt
4602 \headheight 0cm
4603 \topmargin 0in
4604 \marginparwidth 0in
4605 \marginparsep 0in
4606 \hoffset 0.05in % Corrected
4607 \voffset -0.5in %top margin space is 1.0in by default
4608 \oddsidemargin 0in
4609 \evensidemargin 0in
4610 \headsep 0cm

```



```

4611 \topskip 0cm
4612 \parskip 0.15in      %
4613 \headsep Opt
4614 \special{papersize=11.69in,8.26in}
4615 \renewcommand\maketitle{\par
4616 \begingroup
4617 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4618 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4619 \long\def\@makefntext##1{\parindent 1em\noindent
4620 \hb@xt@1.8em{%
4621 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4622 \@maketitle
4623 \@thanks
4624 \endgroup
4625 \setcounter{footnote}{0}%
4626 \global\let\thanks\relax
4627 \global\let\maketitle\relax
4628 \global\let\@maketitle\relax
4629 \global\let\@thanks\@empty
4630 \global\let\@author\@empty
4631 \global\let\@date\@empty
4632 \global\let\@title\@empty
4633 \global\let\title\relax
4634 \global\let\author\relax
4635 \global\let\date\relax
4636 \global\let\and\relax
4637 }

```

48 File bidicode.sty

```

4638 \NeedsTeXFormat{LaTeX2e}
4639 \ProvidesPackage{bidicode}
4640 \RequirePackage{xcolor}
4641 \RequirePackage{showexpl}
4642 \definecolor{hellgelb}{rgb}{1,1,0.85}
4643 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4644 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4645 \definecolor{colIdentifier}{rgb}{0,0,0}
4646 \definecolor{colComments}{rgb}{1,0,0}
4647 \definecolor{colString}{rgb}{0,0.5,0}
4648 \lstset{%
4649     language=[LaTeX]TeX,%
4650     float=hbp,%
4651     basicstyle=\ttfamily\small,%
4652     identifierstyle=\color{colIdentifier},%
4653     keywordstyle=\color{colKeys},%
4654     texcsstyle=\color{colCS},%
4655     stringstyle=\color{colString},%
4656     commentstyle=\color{colComments},%
4657     backgroundcolor=\color{hellgelb},%
4658     columns=flexible,%
4659     tabsize=4,%
4660     extendedchars=true,%
4661     showspaces=false,%

```



```

4662 showstringspaces=false,%
4663 numbers=left,%
4664 numbersep=0.9em,%
4665 numberstyle=\tiny,%
4666 frame=single,%
4667 captionpos=b,%
4668 xleftmargin=1em,%
4669 breaklines=true,%
4670 breakautoindent=false,%
4671 breakindent=0pt,%
4672 escapeinside=**,%
4673 pos=r,%
4674 explpreset={%
4675     xleftmargin=1em,%
4676     columns=flexible,%
4677     language=[LaTeX]TeX%
4678 },%
4679 moretexcs={%
4680     bididate,%
4681     bidiversion,%
4682     deflatinfont,%
4683     defpersianfont,%
4684     ding,%
4685     endLTR,%
4686     endRTL,%
4687     false,%
4688     falsesymbol,%
4689     junicode,%
4690     lr,%
4691     LR,%
4692     LRE,%
4693     LTR,%
4694     maketitle,%
4695     Nastaliq,%
4696     newfontfamily,%
4697     Parsifont,%
4698     part,%
4699     RL,%
4700     RLE,%
4701     RTL,%
4702     RTLcases,%
4703     SepMark,%
4704     setLR,%
4705     setLTR,%
4706     setRL,%
4707     setRTL,%
4708     settextfont,%
4709     subsection,%
4710     subsubsection,%
4711     tableofcontents,%
4712     text,%
4713     theequation,%
4714     thesection,%
4715     true,%

```



```

4716     truesymbol,%
4717     XePersian,%
4718     xepersiandate,%
4719     xepersianversion%
4720 }%
4721 }
4722 \newcommand\HLON{%
4723   \gdef\lst@alloverstyle##1{%
4724     \fboxrule=Opt
4725     \fboxsep=Opt
4726     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4727 }}
4728 \newcommand\HLOFF{%
4729   \xdef\lst@alloverstyle##1{##1}%
4730 }
4731 \newcommand\Larg [1]{\normalfont\itshape#1\}/}
4732 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
4733 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4734 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4735 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4736 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4737 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4738
4739 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4740 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4741 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}
4742 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4743 \DeclareRobustCommand\rsb{\normalfont\ttfamily}}
4744 \DeclareRobustCommand\lrb{\normalfont\ttfamily()}
4745 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}}
4746
4747 \def\Lcs#1{\nxLcs{#1}}
4748 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4749 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4750
4751 \def\Coordx#1{${x}_{#1}$}
4752 \def\Coordy#1{${y}_{#1}$}
4753 \def\Coordz#1{${z}_{#1}$}
4754 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4755 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4756 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4757 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4758 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4759 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4760 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4761 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4762 \def\coordx#1{(${x}_{#1}$)}
4763 \def\coordy#1{(${y}_{#1}$)}
4764 \def\coordz#1{(${z}_{#1}$)}
4765 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4766 \def\ciiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}})
4767
4768 \newsavebox{\boxdef}
4769 \newenvironment{BDef}

```




```

4770 {\begin{lrbox}\boxdef
4771   \def\arraystretch{1.0}
4772   \begin{tabular}{@{}l@{}l@{}l@{}}
4773 }
4774 {\end{tabular}\end{lrbox}
4775
4776 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4777 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4778 }
4779
4780 \newenvironment{BDef*}
4781 {\begin{lrbox}\boxdef
4782   \def\arraystretch{1.0}
4783   \begin{tabular}{@{}l@{}l@{}l@{}}
4784 }
4785 {\end{tabular}\end{lrbox}
4786 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4787 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4788 }
4789 \newenvironment{BCmd*}{
4790   \@beginparpenalty-\@lowpenalty
4791   \topsep\BDefaboveskip
4792   \fbboxsep3pt
4793   \flushleft}
4794 {\@endparpenalty\@M
4795   \@topsepadd\BDefbelowskip
4796   \endflushleft}
4797
4798 \newenvironment{BCmd*}{
4799   \@beginparpenalty\@M
4800   \topsep\BDefinlineskip
4801   \fbboxsep3pt
4802   \flushleft}
4803 {\@endparpenalty5000
4804   \endflushleft}
4805
4806 \newskip\BDefaboveskip
4807 \newskip\BDefbelowskip
4808 \newskip\BDefinlineskip
4809 \setlength\BDefaboveskip{10pt plus 4pt}
4810 \setlength\BDefbelowskip{6pt}
4811 \setlength\BDefinlineskip{6pt}
4812
4813 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4814 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4815 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4816 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4817 \NeedsTeXFormat{LaTeX2e}
4818 \ProvidesPackage{bidiftnxtra}
4819 \newtoks\bidip@ftn
4820 \let\FN@sf@@footnote\footnote

```



```

4821 \let\FN@sf@LTRfootnote\LTRfootnote
4822 \let\FN@sf@RTLfootnote\RTLfootnote
4823 \def\footnote{\ifx\protect\@typeset@protect
4824   \expandafter\FN@sf@footnote
4825   \else
4826     \expandafter\FN@sf@gobble@opt
4827   \fi
4828 }
4829 \def\LTRfootnote{\ifx\protect\@typeset@protect
4830   \expandafter\FN@sf@LTRfootnote
4831   \else
4832     \expandafter\FN@sf@gobble@opt
4833   \fi
4834 }
4835 \def\RTLfootnote{\ifx\protect\@typeset@protect
4836   \expandafter\FN@sf@RTLfootnote
4837   \else
4838     \expandafter\FN@sf@gobble@opt
4839   \fi
4840 }
4841 \edef\FN@sf@gobble@opt{\noexpand\protect
4842   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
4843 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
4844   \@ifnextchar[%]
4845     \FN@sf@gobble@twobrace
4846     \@gobble
4847 }
4848 \def\FN@sf@gobble@twobrace[#1]#2{}
4849 \let\FN@sf@footnotemark\footnotemark
4850 \def\footnotemark{\ifx\protect\@typeset@protect
4851   \expandafter\FN@sf@footnotemark
4852   \else
4853     \expandafter\FN@sf@gobble@optonly
4854   \fi
4855 }
4856 \edef\FN@sf@gobble@optonly{\noexpand\protect
4857   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
4858 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
4859   \@ifnextchar[%]
4860     \FN@sf@gobble@bracket
4861     {}%
4862 }
4863 \def\FN@sf@gobble@bracket[#1]{}
4864 \def\@tabular{%
4865   \leavevmode \hbox \bgroup
4866   \let\@footnotetext\@bidi@p@ftntext
4867   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4868   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4869   \let\@xfootnotenext\@bidi@p@xftntext
4870   \let\@xfootnote\@bidi@p@xfootnote
4871   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4872   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4873   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4874   \let\@xRTLfootnote\@bidi@p@xRTLfootnote

```



```

4875 \ifRTLtab\beginR \fi
4876 $\let\@acol\@tabacol
4877 \let\@classz\@tabclassz
4878 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4879 \def\endtabular{\crr\egroup\ifRTLtab\egroup\endR\egroup\fi
4880 \egroup $\ifRTLtab\endR\fi\egroup
4881 \ifx\@cuptype\@undefined
4882 \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}
4883 \long\def\bidip@ftntext#1{%
4884 \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}%
4885 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4886 \long\def\bidip@LTRftntext#1{%
4887 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4888 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4889 \long\def\bidip@RTLftntext#1{%
4890 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4891 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4892
4893
4894 \long\def\bidip@xftntext[#1]#2{%
4895 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4896
4897 \long\def\bidip@xLTRftntext[#1]#2{%
4898 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4899
4900 \long\def\bidip@xRTLftntext[#1]#2{%
4901 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4902
4903
4904 \def\bidip@xfootnote[#1]{%
4905 \begingroup
4906 \csname c@\mpfn\endcsname #1\relax
4907 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4908 \endgroup
4909 \@footnotemark\bidip@xftntext[#1]}
4910
4911
4912 \def\bidip@xLTRfootnote[#1]{%
4913 \begingroup
4914 \csname c@\mpfn\endcsname #1\relax
4915 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4916 \endgroup
4917 \@footnotemark\bidip@xLTRftntext[#1]}
4918
4919
4920 \def\bidip@xRTLfootnote[#1]{%
4921 \begingroup
4922 \csname c@\mpfn\endcsname #1\relax
4923 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4924 \endgroup
4925 \@footnotemark\bidip@xRTLftntext[#1]}
4926
4927 \def\@xfloat #1[#2]{%
4928 \nodocument

```



```

4929 \def \@capytype {#1}%
4930 \def \@fps {#2}%
4931 \@onelevel@sanitize \@fps
4932 \def \reserved@b {!}%
4933 \ifx \reserved@b \@fps
4934   \@fpsaddefault
4935 \else
4936   \ifx \@fps \@empty
4937     \@fpsaddefault
4938   \fi
4939 \fi
4940 \ifhmode
4941   \@bsphack
4942   \@floatpenalty -\@Mii
4943 \else
4944   \@floatpenalty-\@Miii
4945 \fi
4946 \ifinner
4947   \@parmoderr\@floatpenalty\z@
4948 \else
4949   \@next\@currbox\@freelist
4950   {%
4951     \@tempcnta \sixt@n
4952     \expandafter \@tfor \expandafter \reserved@a
4953     \expandafter :\expandafter =\@fps
4954     \do
4955     {%
4956       \if \reserved@a h%
4957         \ifodd \@tempcnta
4958       \else
4959         \advance \@tempcnta \@ne
4960       \fi
4961     \fi
4962     \if \reserved@a t%
4963       \@setfpsbit \tw@
4964     \fi
4965     \if \reserved@a b%
4966       \@setfpsbit 4%
4967     \fi
4968     \if \reserved@a p%
4969       \@setfpsbit 8%
4970     \fi
4971     \if \reserved@a !%
4972       \ifnum \@tempcnta>15
4973         \advance\@tempcnta -\sixt@n\relax
4974       \fi
4975     \fi
4976   }%
4977   \@tempcntb \csname ftype@\@capytype \endcsname
4978   \multiply \@tempcntb \xxxii
4979   \advance \@tempcnta \@tempcntb
4980   \global \count\@currbox \@tempcnta
4981   }%
4982 \@fltovf

```



```

4983 \fi
4984 \global \setbox\@currbox
4985 \color@vbox
4986 \normalcolor
4987 \vbox \bgroup
4988 \let\@footnotetext\@bidi@p@ftntext
4989 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4990 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4991 \let\@xfootnotenext\@bidi@p@xftntext
4992 \let\@xfootnote\@bidi@p@xfootnote
4993 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4994 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4995 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4996 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4997 \hsize\columnwidth
4998 \@parboxrestore
4999 \@floatboxreset
5000 }
5001 \def \@endfloatbox{%
5002 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
5003 \@minipagefalse
5004 \outer@nobreak
5005 \egroup %% end of vbox
5006 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5007 \color@endbox
5008 }

```

50 File bidimoderncv.cls

```

5009 \NeedsTeXFormat{LaTeX2e}
5010 \ProvidesClass{bidimoderncv}
5011 \newif\if@DEBUG\@DEBUGfalse
5012 \DeclareOption{a4paper}{
5013 \setlength\paperheight{297mm}
5014 \setlength\paperwidth{210mm}}
5015 \DeclareOption{a5paper}{
5016 \setlength\paperheight{210mm}
5017 \setlength\paperwidth{148mm}}
5018 \DeclareOption{b5paper}{
5019 \setlength\paperheight{250mm}
5020 \setlength\paperwidth{176mm}}
5021 \DeclareOption{letterpaper}{
5022 \setlength\paperheight{11in}
5023 \setlength\paperwidth{8.5in}}
5024 \DeclareOption{legalpaper}{
5025 \setlength\paperheight{14in}
5026 \setlength\paperwidth{8.5in}}
5027 \DeclareOption{executivepaper}{
5028 \setlength\paperheight{10.5in}
5029 \setlength\paperwidth{7.25in}}
5030 \DeclareOption{landscape}{
5031 \setlength\@tempdima{\paperheight}
5032 \setlength\paperheight{\paperwidth}
5033 \setlength\paperwidth{\@tempdima}}

```



```

5034 \newcommand\@ptsize{}
5035 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5036 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5037 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5038 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5039 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5040 \newif\if@colour\@colourtrue
5041 \DeclareOption{nocolour}{\@colourfalse}
5042 \ExecuteOptions{a4paper,11pt,colour,final}
5043 \ProcessOptions\relax
5044 \input{size1\@ptsize.clo}
5045 \RequirePackage{color}
5046 \RequirePackage{graphicx}
5047 \RequirePackage{ifthen}
5048 \RequirePackage{marvosym}
5049 \addtolength{\oddsidemargin}{-54pt}
5050 \addtolength{\textwidth}{109pt}
5051 \addtolength{\topmargin}{-70pt}
5052 \addtolength{\textheight}{122pt}
5053 \addtolength{\marginparsep}{-5pt}
5054 \addtolength{\marginparwidth}{-10pt}
5055 \RequirePackage{url}
5056 \RequirePackage{hyperref}
5057 \hypersetup{%
5058   breaklinks,
5059   baseurl      = http://,%
5060   pdfborder    = 0 0 0,%
5061   pdfpagemode  = UseNone,%
5062   pdfstartpage = 1}
5063 \AtEndOfClass{%
5064   \AtBeginDocument{%
5065     \hypersetup{%
5066       pdfauthor    = \@firstname~\@familyname,%
5067       pdftitle     = \@title,%
5068       pdfsubject   = \@firstname~\@familyname,%
5069       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
5070 \urlstyle{tt}
5071 \RequirePackage{fancyhdr}
5072 \fancypagestyle{plain}{%
5073   \renewcommand{\headrulewidth}{0pt}
5074   \renewcommand{\footrulewidth}{0pt}
5075   \fancyhf{}}
5076 \pagestyle{plain}
5077 \setlength\lineskip{1\p@}
5078 \setlength\normallineskip{1\p@}
5079 \renewcommand\baselinestretch{}
5080 \setlength{\parindent}{0pt}
5081 \setlength{\parskip}{0pt}
5082 \setlength\columnsep{10\p@}
5083 \setlength\columnseprule{0\p@}
5084 \pagestyle{empty}
5085 \pagenumbering{arabic}
5086 \raggedbottom
5087 \onecolumn

```



```

5088 \providecommand*\listitemsymbol{\textbullet}
5089 \providecommand*\addresssymbol{}
5090 \providecommand*\mobilesymbol{\Mobilefone}
5091 \providecommand*\phonesymbol{\Telefon}
5092 \providecommand*\faxsymbol{\FAX}
5093 \providecommand*\emailsymbol{\Letter}
5094 \definecolor{firstnamecolor}{rgb}{0,0,0}
5095 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5096 \def\familynamcolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5097 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5098 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5099 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5100 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5101 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5102 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5103 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5104 \providecommand*\firstnamefont{}
5105 \providecommand*\familynamefont{}
5106 \providecommand*\titlefont{}
5107 \providecommand*\addressfont{}
5108 \providecommand*\quoteftfont{}
5109 \providecommand*\sectionfont{}
5110 \providecommand*\subsectionfont{}
5111 \providecommand*\hintfont{\small}
5112 \providecommand*\firstnamestyle[1]{\@firstnamefont\@firstnamecolour#1}
5113 \providecommand*\familynamestyle[1]{\@familynamefont\@familynamecolour#1}
5114 \providecommand*\titlestyle[1]{\@titlefont\@titlecolour#1}
5115 \providecommand*\addresstyle[1]{\@addressfont\@addresscolour#1}
5116 \providecommand*\quotestyle[1]{\@quotefont\@quotecolour#1}
5117 \providecommand*\sectionstyle[1]{\@sectionfont\@sectiontitlecolour#1}
5118 \providecommand*\subsectionstyle[1]{\@subsectionfont\@subsectioncolour#1}
5119 \providecommand*\hintstyle[1]{\@hintfont\@hintcolour#1}
5120 \newcommand*\cvtheme}[2]{}
5121 \def\@cvtheme{#2}
5122 \def\@cvthemeoptions{#1}
5123 \cvtheme{bidi-casual}
5124 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5125 \newcommand*\resumename[1]{\def\@resumename{#1}}
5126 \newcommand*\firstname[1]{\def\@firstname{#1}}
5127 \newcommand*\familyname[1]{\def\@familyname{#1}}
5128 \renewcommand*\title[1]{\def\@title{#1}}
5129 \newcommand*\address[1]{\def\@address{#1}}
5130 \newcommand*\mobile[1]{\def\@mobile{#1}}
5131 \newcommand*\phone[1]{\def\@phone{#1}}
5132 \renewcommand*\fax[1]{\def\@fax{#1}}
5133 \newcommand*\email[1]{\def\@email{#1}}
5134 \newcommand*\extrainfo[1]{\def\@extrainfo{#1}}
5135 \def\@photowidth{0pt}
5136 \newcommand*\photo[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5137 \newcommand*\quote[1]{\def\@quote{#1}}
5138 \newlength{\quotewidth}
5139 \newlength{\hintscolumnwidth}
5140 \newlength{\separatorcolumnwidth}
5141 \setlength{\separatorcolumnwidth}{0.025\textwidth}

```



```

5142 \newlength{\maincolumnwidth}
5143 \newlength{\doubleitemmaincolumnwidth}
5144 \newlength{\listitemsymbolwidth}
5145 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
5146 \newlength{\listitemmaincolumnwidth}
5147 \newlength{\listdoubleitemmaincolumnwidth}
5148 \newcommand*\recomputethemelengths}{%
5149 \newcommand*\recomputelengths}{%
5150 \setlength{\quotewidth}{0.65\textwidth}%
5151 \setlength{\maincolumnwidth}{\textwidth}%
5152 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5153 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5154 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5155 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5156 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5158 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5159 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5160 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5161 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5162 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5163 \renewcommand{\headwidth}{\textwidth}%
5164 \recomputethemelengths}
5165 \setlength{\hintscolumnwidth}{0.15\textwidth}
5166 \recomputelengths
5167 \title{}
5168 \renewcommand*\maketitle{}
5169 \newcommand*\section}[1]{%
5170 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5171 \phantomsection}%
5172 \addcontentsline{toc}{part}{#1}%
5173 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5174 \hspace{\separatorcolumnwidth}}%
5175 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
5176 \newcommand*\subsection}[1]{%
5177 \cvline[0.45em]{\subsectionstyle{#1}}
5178 \newcommand*\cvline}[3][.25em]{%
5179 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5180 \bidi@raggedleft\hintfont{#2} &{#3}}%
5181 \end{tabular}}\}[#1]}
5182 \newcommand*\cvdoubleitem}[4]{%
5183 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5184 \hfill%
5185 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5186 \newcommand*\cvlistitem}[2][\listitemsymbol]{%
5187 \cvline[0pt]{\#1-\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5188 \newcommand*\cvlistdoubleitem}[3][\listitemsymbol]{%
5189 \cvline[0pt]{\#1-\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5190 \hfill%
5191 \ifthenelse{\equal{#3}{}}%
5192 {}%
5193 {\#1-\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5194 \newcommand*\cventry}[6]{%
5195 \cvline{#1}{%

```




```

5196     {\bfseries#2}%
5197     \ifx#3\else{, {\slshape#3}}\fi%
5198     \ifx#4\else{, #4}\fi%
5199     \ifx#5\else{, #5}\fi%
5200     .%
5201     \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5202     }%
5203 \newcommand*{\cvlanguage}[3]{%
5204   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}}{#3}{#4}{#5}}
5205 \newcommand*{\cvcomputer}[4]{%
5206   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5207 \newcommand*{\link}[2][ ]{%
5208   \ifthenelse{\equal{#1}{}}%
5209     {\href{#2}{#2}}%
5210     {\href{#2}{#1}}}
5211 \newcommand*{\httplink}[2][ ]{%
5212   \ifthenelse{\equal{#1}{}}%
5213     {\href{http://#2}{#2}}%
5214     {\href{http://#2}{#1}}}
5215 \newcommand*{\emailink}[2][ ]{%
5216   \ifthenelse{\equal{#1}{}}%
5217     {\href{mailto:#2}{#2}}%
5218     {\href{mailto:#2}{#1}}}
5219 \newif\if@displaypagenumbers\@displaypagenumberstrue
5220 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5221 \AtBeginDocument{%
5222   \if@displaypagenumbers%
5223     \ifundefined{r@lastpage}{ }{%
5224       \ifthenelse{\pageref{lastpage} > 1}{%
5225         \fancypagestyle{plain}{%
5226           \fancyfoot [r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pageref{lastpage}}%
5227         \pagestyle{plain}}}%
5228   \AtEndDocument{\label{lastpage}}%
5229   \fi}
5230 \newlength{\bibindent}
5231 \setlength{\bibindent}{1.5em}
5232 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5233 \newenvironment{thebibliography}[1]{%
5234   {%
5235     \section{\refname}%
5236     \small%
5237     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5238     \bidi@thebibliography@font@hook%
5239     \begin{list}{\bibliographyitemlabel}%
5240       {%
5241         \setlength{\topsep}{0pt}%
5242         \setlength{\labelwidth}{\hintscolumnwidth}%
5243         \setlength{\labelsep}{\separatorcolumnwidth}%
5244         \leftmargin\labelwidth%
5245         \advance\leftmargin\labelsep%
5246         \@openbib@code%
5247         \usecounter{enumiv}%
5248         \let\p@enumiv\@empty%
5249         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

5250     \sloppy\clubpenalty4000\widowpenalty4000%
5251   }%
5252   {%
5253     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5254     \end{list}%
5255   }
5256 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5257 \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5258 \NeedsTeXFormat{LaTeX2e}
5259 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5260 \newcount\bidi@page@count
5261 \bidi@page@count\@ne
5262 \newcommand*\ResetCounterPerPage}[2][\z@]{%
5263   \if@bidi@csundef{bidi@stepcounterhook@#2}{%
5264     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5265   }}%
5266   \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
5267     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5268   }}%
5269   \if@bidi@csundef{bidi@#2@count}{%
5270     \expandafter\newcount\csname bidi@#2@count\endcsname
5271   }}%
5272   \csname bidi@#2@count\endcsname\z@
5273   \if@bidi@csundef{bidi@previous@page@#2@count}{%
5274     \expandafter\newcount\csname
5275     bidi@previous@page@#2@count\endcsname
5276   }}%
5277   \csname bidi@previous@page@#2@count\endcsname\z@
5278   \if@bidi@csundef{bidi@reset@#2@perpage}{%
5279     \bidi@AfterEndDocumentCheckLabelsRerun{%
5280       \csname if@bidi@reset@#2@rerun\endcsname
5281       \PackageWarningNoLine{bidi-perpage}{%
5282         Counter `#2' may not have been reset per page.
5283         Rerun to reset counter `#2' per page%
5284       }}%
5285     \fi
5286   }}%
5287 }{}%
5288 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5289   \global\advance\csname bidi@#2@count\endcsname\@ne
5290   \if@files@w
5291     \edef\@tempa{%
5292       \write\@auxout{%
5293         \string\bidi@counter@page{#2}%
5294         {\number\csname bidi@#2@count\endcsname}%
5295         {\noexpand\number\noexpand\bidi@page@count}%
5296       }}%
5297     }%
5298     \@tempa
5299   \fi
5300 \begingroup\expandafter\expandafter\expandafter\endgroup

```



```

5301 \expandafter\ifx\csname bidi@#2@@\number\csname
5302 bidi@#2@count\endcsname\endcsname\relax
5303   \global\csname @bidi@reset@#2@reruntrue\endcsname
5304 \else
5305   \global\csname @bidi@reset@#2@rerunfalse\endcsname
5306   \expandafter\@tempcnta\csname bidi@#2@@\number
5307   \csname bidi@#2@count\endcsname\endcsname\relax
5308   \ifnum\@tempcnta=\csname
5309   bidi@previous@page@#2@count\endcsname
5310   \else
5311     \global\csname
5312     bidi@previous@page@#2@count\endcsname\@tempcnta
5313     \global\csname c@#2\endcsname#1\relax
5314   \fi
5315 \fi
5316 }%
5317 \expandafter\bidi@gappto\csname
5318 bidi@stepcounterhook@#2\endcsname{%
5319   \csname bidi@reset@#2@perpage\endcsname
5320 }%
5321 }
5322 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@#2}{#3}}
5323 \bidi@AtEndOutputPage{%
5324   \global\advance\bidi@page@count\@ne
5325 }

```

52 File biditools.sty

```

5326 \NeedsTeXFormat{LaTeX2e}
5327 \ProvidesPackage{biditools}[2025/01/03 v2.6 Programming tools for bidi package]
5328 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\relax
5329   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5330   \ifx\@tempa\@tempb \global\let#2#1%
5331   \else
5332     \edef\@tempb{\meaning#2}%
5333     \ifx\@tempa\@tempb
5334       \else
5335         \@latex@error{Unable to properly define \string#2; primitive
5336         \noexpand#1no longer primitive}\@eha
5337     \fi
5338   \fi
5339 \endgroup}
5340 \newtoks\@bidi@envbody
5341 \newtoks\@bidi@emptytoks
5342 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5343 \def\bidi@collect@body#1{%
5344   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5345   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5346   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5347   \begingroup
5348   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5349   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5350   \bidi@process@envbody
5351 }

```



```

5352 \def\ bidi@push@begins#1\begin#2{%
5353   \ifx\end#2\else b\expandafter\ bidi@push@begins\fi
5354 }
5355 \def\ bidi@collect@@body#1\end#2{%
5356   \edef\begin@bidi@stack{\ bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5357   \ifx\@empty\begin@bidi@stack
5358     \endgroup
5359     \@checkend{#2}%
5360     \ bidi@addto@envbody{#1}%
5361   \else
5362     \ bidi@addto@envbody{#1\end{#2}}%
5363   \fi
5364   \ bidi@process@envbody % A little tricky! Note the grouping
5365 }
5366 \long\def\ bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5367 \long\def\ bidi@collect@long@body#1{%
5368   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5369   \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentenv}}%
5370   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5371   \begingroup
5372   \expandafter\let\csname\@currentenv\endcsname\ bidi@collect@long@@body
5373   \edef\ bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5374   \ bidi@process@envbody
5375 }
5376 \long\def\ bidi@push@long@begins#1\begin#2{%
5377   \ifx\end#2\else b\expandafter\ bidi@push@long@begins\fi
5378 }
5379 \long\def\ bidi@collect@long@@body#1\end#2{%
5380   \edef\begin@bidi@stack{\ bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@
5381   \ifx\@empty\begin@bidi@stack
5382     \endgroup
5383     \@checkend{#2}%
5384     \ bidi@addto@long@envbody{#1}%
5385   \else
5386     \ bidi@addto@long@envbody{#1\end{#2}}%
5387   \fi
5388   \ bidi@process@envbody % A little tricky! Note the grouping
5389 }
5390 \long\def\ bidi@new@ifnextchar#1#2#3{%
5391   \let\reserved@d= #1%
5392   \def\reserved@a{#2}\def\reserved@b{#3}%
5393   \futurelet\@let@token\ bidi@new@ifnch
5394 }
5395 \def\ bidi@new@ifnch{%
5396   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5397   \reserved@b
5398 }
5399 \def\ bidi@matrix@check#1{%
5400   \expandafter\ifx\csname\@currentenv\endcsname#1%
5401   \else\ bidi@matrix@error#1%
5402     \expandafter\@gobble
5403   \fi
5404 }
5405 \def\ bidi@matrix@error#1{%

```



```

5406 \PackageError{biditools}{%
5407 Old form `string#1' should be \string\begin{\expandafter@gobble\string#1}%
5408 }{%
5409 `string#1{...}' is old bidi package syntax whose use is
5410 ill-advised in the old versions of bidi package.%
5411 }%
5412 }
5413 \def\eqnewif#1#2{%
5414 \count@\escapechar \escapechar@m@ne
5415 \let#1\iffalse
5416 \let#2\iffalse
5417 \eq@if#1#2\iftrue
5418 \eq@if#1#2\iffalse
5419 \escapechar\count@}
5420 \def\eq@if#1#2#3{%
5421 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5422 \expandafter@gobbletwo\string#3\endcsname
5423 {\let#1#3%
5424 \let#2#3}%
5425 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5426 \expandafter@gobbletwo\string#3\endcsname
5427 {\let#2#3%
5428 \let#1#3}}
5429 \def\noteqnewif#1#2{%
5430 \count@\escapechar \escapechar@m@ne
5431 \let#1\iffalse
5432 \let#2\iffalse
5433 \not@eq@if#1#2\iftrue\iffalse
5434 \escapechar\count@}
5435 \def\not@eq@if#1#2#3#4{%
5436 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5437 \expandafter@gobbletwo\string#3\endcsname
5438 {\let#1#3%
5439 \let#2#4}%
5440 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5441 \expandafter@gobbletwo\string#4\endcsname
5442 {\let#1#4%
5443 \let#2#3}%
5444 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5445 \expandafter@gobbletwo\string#3\endcsname
5446 {\let#2#3%
5447 \let#1#4}%
5448 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5449 \expandafter@gobbletwo\string#4\endcsname
5450 {\let#2#4%
5451 \let#1#3}}
5452 \newcommand*{\SetBoolean}[2]{%
5453 \lowercase{\def\@tempa{#2}}%
5454 \@ifundefined{\@tempwa\@tempa}%
5455 {\PackageError{biditools}%
5456 {You can only set a boolean to `true' or `false'}\@ehc}%
5457 {\@ifundefined{#1\@tempa}%
5458 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5459 {\csname#1\@tempa\endcsname}}

```



```

5460 \newcommand*\GlobalSetBoolean}[2]{%
5461   \lowercase{\def\@tempa{#2}}%
5462   \@ifundefined{@tempswa\@tempa}%
5463     {\PackageError{biditytools}%
5464       {You can only set a boolean to `true' or `false'}\@ehc}%
5465     {\@ifundefined{#1\@tempa}%
5466       {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5467       {\global\csname#1\@tempa\endcsname}}}
5468 \newcommand*\SetatBoolean}[2]{%
5469   \lowercase{\def\@tempa{#2}}%
5470   \@ifundefined{@tempswa\@tempa}%
5471     {\PackageError{biditytools}%
5472       {You can only set a boolean to `true' or `false'}\@ehc}%
5473     {\@ifundefined{@#1\@tempa}%
5474       {\PackageError{biditytools}{Boolean @#1 undefined}\@ehc}%
5475       {\csname @#1\@tempa\endcsname}}}
5476 \newcommand*\GlobalSetatBoolean}[2]{%
5477   \lowercase{\def\@tempa{#2}}%
5478   \@ifundefined{@tempswa\@tempa}%
5479     {\PackageError{biditytools}%
5480       {You can only set a boolean to `true' or `false'}\@ehc}%
5481     {\@ifundefined{@#1\@tempa}%
5482       {\PackageError{biditytools}{Boolean @#1 undefined}\@ehc}%
5483       {\global\csname @#1\@tempa\endcsname}}}
5484 \def\@bidi@removefromreset#1#2{%
5485   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5486   \def\@elt##1{%
5487     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5488     \else
5489     \noexpand\@elt{##1}%
5490     \fi}%
5491   \expandafter\xdef\csname c1@#2\endcsname{%
5492     \csname c1@#2\endcsname}}}
5493 \newcommand*\ifRtoL{%
5494   \ifRTL
5495     \expandafter\@firstoftwo
5496   \else
5497     \expandafter\@secondoftwo
5498   \fi}
5499 \newcommand*\ifLtoR{%
5500   \ifRTL
5501     \expandafter\@secondoftwo
5502   \else
5503     \expandafter\@firstoftwo
5504   \fi}
5505 \newcommand*\ifRtoLtable{%
5506   \ifRTLTab
5507     \expandafter\@firstoftwo
5508   \else
5509     \expandafter\@secondoftwo
5510   \fi}
5511 \newcommand*\ifLtoRtable{%
5512   \ifRTLTab
5513     \expandafter\@secondoftwo

```



```

5514 \else
5515   \expandafter\@firstoftwo
5516 \fi}
5517 \newcommand*\ifRtoLhboxconstruct}{%
5518   \if@hboxRconstruct
5519   \expandafter\@firstoftwo
5520 \else
5521   \expandafter\@secondoftwo
5522 \fi}
5523 \newcommand*\ifLtoRhboxconstruct}{%
5524   \if@hboxRconstruct
5525   \expandafter\@secondoftwo
5526 \else
5527   \expandafter\@firstoftwo
5528 \fi}
5529 \newcommand*\iflatin}{%
5530   \if@nonlatin
5531   \expandafter\@secondoftwo
5532 \else
5533   \expandafter\@firstoftwo
5534 \fi}
5535 \newcommand*\ifnonlatin}{%
5536   \if@nonlatin
5537   \expandafter\@firstoftwo
5538 \else
5539   \expandafter\@secondoftwo
5540 \fi}
5541
5542 \newcommand*\bidi@convert@dimen@t@unit}[2]{%
5543   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5544
5545 \newcommand*\bidi@convert@dimen@t@pt}[1]{%
5546   \dimexpr #1*65536/\dimexpr 1pt\relax}
5547
5548 \newcommand*\if@bidi@csdef}[1]{%
5549   \ifcsname#1\endcsname
5550   \expandafter\@firstoftwo
5551 \else
5552   \expandafter\@secondoftwo
5553 \fi}
5554 \newcommand*\if@bidi@csundef}[1]{%
5555   \ifcsname#1\endcsname
5556   \expandafter\ifx\csname#1\endcsname\relax
5557   \expandafter\expandafter
5558   \expandafter\@firstoftwo
5559 \else
5560   \expandafter\expandafter
5561   \expandafter\@secondoftwo
5562 \fi
5563 \else
5564   \expandafter\@firstoftwo
5565 \fi}
5566 \newcommand\if@bidi@def}[1]{%
5567   \ifdefined#1%

```



```

5568 \expandafter\@firstoftwo
5569 \else
5570 \expandafter\@secondoftwo
5571 \fi}
5572 \newcommand{\if@bidi@undef}[1]{%
5573 \ifdefined#1%
5574 \ifx#1\relax
5575 \expandafter\expandafter
5576 \expandafter\@firstoftwo
5577 \else
5578 \expandafter\expandafter
5579 \expandafter\@secondoftwo
5580 \fi
5581 \else
5582 \expandafter\@firstoftwo
5583 \fi}
5584 \newcommand{\if@bidi@blank}[1]{% from url.sty
5585 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5586 \long\def\bidi@ifblank@i#1#2&#3#4#5:#{#4}
5587 \newcommand{\bidi@notblank}[1]{%
5588 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5589 \newcommand{\if@bidi@defmacro}{}
5590 \long\edef\if@bidi@defmacro#1{%
5591 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5592 \noexpand\meaning#1\detokenize{macro}:&}
5593 \edef\bidi@ifdefmacro{%
5594 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5595 \bidi@ifdefmacro{\bidi@notblank{#2}}
5596 \newcommand*{\if@bidi@csmacro}[1]{%
5597 \if@bidi@csdef{#1}
5598 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5599 {\@secondoftwo}}
5600 \newcommand{\if@bidi@defprimitive}[1]{%
5601 \ifprimitive#1%
5602 \expandafter\@firstoftwo
5603 \else
5604 \expandafter\@secondoftwo
5605 \fi}
5606 \newcommand{\if@bidi@csprimitive}[1]{%
5607 \begingroup\expandafter\expandafter\expandafter\endgroup%
5608 \expandafter\ifprimitive\csname#1\endcsname%
5609 \expandafter\@firstoftwo
5610 \else
5611 \expandafter\@secondoftwo
5612 \fi}
5613 \newcommand*{\bidi@csdefcs}[2]{%
5614 \expandafter\@ifdefinable \csname#1\endcsname{%
5615 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5616 \newcommand*{\bidi@csletcs}[2]{%
5617 \expandafter\@ifdefinable \csname#1\endcsname{%
5618 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5619 \newcommand*{\bidi@cslet}[2]{%
5620 \expandafter\@ifdefinable \csname#1\endcsname{%
5621 \expandafter\let\csname#1\endcsname#2}}

```




```

5622 \newcommand{\bidi@namelongdef}[1]{%
5623   \long\expandafter\def\csname #1\endcsname}
5624 \newcommand{\bidi@namelonggdef}[1]{%
5625   \long\expandafter\gdef\csname #1\endcsname}
5626 \newcommand{\bidi@namelongedef}[1]{%
5627   \long\expandafter\edef\csname #1\endcsname}
5628 \newcommand{\bidi@namelongxdef}[1]{%
5629   \long\expandafter\xdef\csname #1\endcsname}
5630 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5631 \def\bidi@ensure@new@command#1{%
5632   \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5633   \expandafter\if\bidi@csundef\@gtempa
5634     {\new@command#1}{\relax%
5635     \let\@ifdefinable\@rc@ifdefinable%
5636     \new@command#1}}
5637 \def\bidi@ensure@newlength#1{\if\bidi@undef#1{\newskip#1}{}}
5638
5639 \protected\def\bidi@error{\PackageError{bidi}}
5640 \protected\def\bidi@warning{\PackageWarning{bidi}}
5641 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5642 \protected\def\bidi@info{\PackageInfo{bidi}}
5643
5644 \def\bidi@pos#1#2#3#4{\bidi@namegdef{bidi@#1pos@#2@#3}{#4}}
5645
5646 \newcount\bidi@poscount
5647
5648 \newcommand*{\WriteStartXPostoaux}{%
5649   \global\advance\bidi@poscount\@ne
5650   \edef\@tempa{%
5651     \write\@auxout{%
5652       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5653       }%
5654     }%
5655     \ifvmode
5656       \leavevmode
5657     \fi
5658   \if@RTL
5659     \if@filesw
5660       \@tempa
5661     \fi
5662   \pdfsavepos
5663   \else
5664   \pdfsavepos
5665   \if@filesw
5666     \@tempa
5667   \fi
5668   \fi
5669   \if\bidi@csundef{bidi@xpos@start@\number\bidi@poscount}{%
5670     \PackageWarningNoLine{biditools}{%
5671       The start x position ` \number\bidi@poscount' is not known yet.
5672       Rerun to get this x position%
5673     }%
5674   }{}}%
5675 }

```



```

5676
5677 \newcommand*\WriteEndXPostoaux}{%
5678     \edef\@tempa{%
5679         \write\@auxout{%
5680             \string\ bidi@pos{x}{end}{\number\ bidi@poscount}{\noexpand\number\noexpand\pdflastx
5681         }%
5682     }%
5683 \if@RTL
5684     \if@filesw
5685         \@tempa
5686     \fi
5687 \pdfsavepos
5688 \else
5689 \pdfsavepos
5690 \if@filesw
5691     \@tempa
5692 \fi
5693 \fi
5694 \if@bidi@csundef{bidi@xpos@end@\number\ bidi@poscount}{%
5695     \PackageWarningNoLine{biditools}{%
5696         The end x position ` \number\ bidi@poscount' is not known yet.
5697         Rerun to get this x position%
5698     }%
5699 }{ }%
5700 }
5701
5702 \newcommand*\WriteStartYPostoaux}{%
5703 \global\advance\ bidi@poscount\@ne
5704     \edef\@tempa{%
5705         \write\@auxout{%
5706             \string\ bidi@pos{y}{start}{\number\ bidi@poscount}{\noexpand\number\noexpand\pdflasty
5707         }%
5708     }%
5709     \ifvmode
5710         \leavevmode
5711     \fi
5712 \if@RTL
5713     \if@filesw
5714         \@tempa
5715     \fi
5716 \pdfsavepos
5717 \else
5718 \pdfsavepos
5719 \if@filesw
5720     \@tempa
5721 \fi
5722 \fi
5723 \if@bidi@csundef{bidi@ypos@start@\number\ bidi@poscount}{%
5724     \PackageWarningNoLine{biditools}{%
5725         The start y position ` \number\ bidi@poscount' is not known yet.
5726         Rerun to get this y position%
5727     }%
5728 }{ }%
5729 }

```



```

5730
5731 \newcommand*\WriteEndYPostoaux}{%
5732     \edef\@tempa{%
5733         \write\@auxout{%
5734             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5735         }%
5736     }%
5737 \if@RTL
5738     \if@filesw
5739         \@tempa
5740 \fi
5741 \pdfsavepos
5742 \else
5743 \pdfsavepos
5744 \if@filesw
5745     \@tempa
5746 \fi
5747 \fi
5748 \if@bidi\csundef{bidipypos@end@\number\bidiposcount}{%
5749     \PackageWarningNoLine{biditools}{%
5750         The end y position `'\number\bidiposcount' is not known yet.
5751         Rerun to get this y position%
5752     }%
5753 }{}%
5754 }
5755
5756 \newcommand*\WriteStartXYPostoaux}{%
5757 \global\advance\bidiposcount\@ne
5758     \edef\@tempa{%
5759         \write\@auxout{%
5760             \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5761         }%
5762         \write\@auxout{%
5763             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5764         }%
5765     }%
5766     \ifvmode
5767         \leavevmode
5768     \fi
5769 \if@RTL
5770     \if@filesw
5771         \@tempa
5772 \fi
5773 \pdfsavepos
5774 \else
5775 \pdfsavepos
5776 \if@filesw
5777     \@tempa
5778 \fi
5779 \fi
5780 \if@bidi\csundef{bidixpos@start@\number\bidiposcount}{%
5781     \PackageWarningNoLine{biditools}{%
5782         The start x position `'\number\bidiposcount' is not known yet.
5783         Rerun to get this x position%

```



```

5784     }%
5785 }-%
5786 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5787     \PackageWarningNoLine{biditools}{%
5788         The start y position `\

```



```

5838 \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5839 \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5840 \endcsname sp\relax
5841 \fi
5842 }%
5843 }
5844
5845 \newcommand*{\currentposyheight}{%
5846 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5847 {%
5848 \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5849 \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5850 \endcsname sp\relax
5851 }%
5852 }
5853
5854
5855
5856 \newcommand*{\setbaselineskip}[1]{%
5857 \linespread{\strip@pt\dimexpr numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5858 \selectfont
5859 }
5860
5861
5862 \newcommand*{\bidi@newrobustcmd}{%
5863 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5864
5865 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5866
5867 \def\bidi@newcommand#1[#2]{%
5868 \@ifnextchar[%]
5869 {\bidi@xargdef#1[#2]}
5870 {\ifx\l@ngrel@x\relax
5871 \let\l@ngrel@x\protected
5872 \else
5873 \protected\def\l@ngrel@x{\protected\long}%
5874 \fi
5875 \@argdef#1[#2]}}
5876
5877 \long\def\bidi@xargdef#1[#2][#3]#4{%
5878 \@ifdefinable#1{%
5879 \expandafter\protected
5880 \expandafter\def
5881 \expandafter#1%
5882 \expandafter{%
5883 \expandafter\@testopt
5884 \csname\string#1\endcsname{#3}}%
5885 \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5886
5887 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5888
5889 \def\bidi@renew@command#1{%
5890 \if@bidi@undef{#1}
5891 {\bidi@error{\string#1 undefined}\@ehc}

```



```

5892     {}%
5893 \let\@ifdefinable\@rc@ifdefinable
5894 \bidi@new@command#1}
5895
5896
5897
5898 \bidi@newrobustcmd*\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5899
5900 \def\bidi@provide@command#1{%
5901 \if@bidi@undef{#1}
5902   {\def\reserved@a{\bidi@new@command#1}}
5903   {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5904 \reserved@a}
5905
5906 \newcommand*\bidi@csuse}[1]{%
5907 \ifcsname#1\endcsname
5908   \csname#1\expandafter\endcsname
5909 \fi}
5910
5911 \newcommand{\bidi@expandonce}[1]{%
5912 \unexpanded\expandafter{#1}}
5913
5914 \def\bidi@protected{%
5915 \let\@protect\protect
5916 \let\protect\@unexpandable@protect
5917 \afterassignment\restore@protect}
5918
5919 \bidi@newrobustcmd{\bidi@appto}[2]{%
5920 \if@bidi@undef{#1}
5921   {\edef#1{\unexpanded{#2}}}
5922   {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5923 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5924 \if@bidi@undef{#1}
5925   {\edef#1{#2}}
5926   {\edef#1{\bidi@expandonce#1#2}}}}
5927 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5928 \if@bidi@undef{#1}
5929   {\xdef#1{\unexpanded{#2}}}
5930   {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5931 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5932 \if@bidi@undef{#1}
5933   {\xdef#1{#2}}
5934   {\xdef#1{\bidi@expandonce#1#2}}}}
5935
5936 \bidi@newrobustcmd*\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5937 \bidi@newrobustcmd*\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5938
5939
5940
5941 \bidi@newrobustcmd{\bidi@preto}[2]{%
5942 \if@bidi@undef{#1}
5943   {\edef#1{\unexpanded{#2}}}
5944   {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
5945 \bidi@newrobustcmd{\bidi@epreto}[2]{%

```



```

5946 \if@bidi@undef{#1}
5947   {\edef#1{#2}}
5948   {\edef#1{#2\bidix@expandonce#1}}
5949 \bidix@newrobustcmd{\bidix@gpreto}[2]{%
5950 \if@bidi@undef{#1}
5951   {\xdef#1{\unexpanded{#2}}}
5952   {\xdef#1{\unexpanded{#2}\bidix@expandonce#1}}}
5953 \bidix@newrobustcmd{\bidix@xpreto}[2]{%
5954 \if@bidi@undef{#1}
5955   {\xdef#1{#2}}
5956   {\xdef#1{#2\bidix@expandonce#1}}}
5957
5958 \bidix@newrobustcmd*{\bidix@protected@epreto}{\bidix@protected\bidix@epreto}
5959 \bidix@newrobustcmd*{\bidix@protected@xpreto}{\bidix@protected\bidix@xpreto}
5960
5961
5962
5963 \bidix@newrobustcmd*{\bidix@csappto}[1]{\expandafter\bidix@appto\csname#1\endcsname}
5964 \bidix@newrobustcmd*{\bidix@cseappto}[1]{\expandafter\bidix@eappto\csname#1\endcsname}
5965 \bidix@newrobustcmd*{\bidix@csgappto}[1]{\expandafter\bidix@gappto\csname#1\endcsname}
5966 \bidix@newrobustcmd*{\bidix@csxappto}[1]{\expandafter\bidix@xappto\csname#1\endcsname}
5967 \bidix@newrobustcmd*{\bidix@protected@cseappto}{\bidix@protected\bidix@cseappto}
5968 \bidix@newrobustcmd*{\bidix@protected@csxappto}{\bidix@protected\bidix@csxappto}
5969
5970
5971
5972 \bidix@newrobustcmd*{\bidix@cspreto}[1]{\expandafter\bidix@preto\csname#1\endcsname}
5973 \bidix@newrobustcmd*{\bidix@csepreto}[1]{\expandafter\bidix@epreto\csname#1\endcsname}
5974 \bidix@newrobustcmd*{\bidix@csgpreto}[1]{\expandafter\bidix@gpreto\csname#1\endcsname}
5975 \bidix@newrobustcmd*{\bidix@csxpreto}[1]{\expandafter\bidix@xpreto\csname#1\endcsname}
5976 \bidix@newrobustcmd*{\bidix@protected@csepreto}{\bidix@protected\bidix@csepreto}
5977 \bidix@newrobustcmd*{\bidix@protected@csxpreto}{\bidix@protected\bidix@csxpreto}
5978
5979
5980
5981 \bidix@newrobustcmd{\if@bidi@patchable}{%
5982 \bidix@dbg@trce\if@bidi@patchable
5983 \begingroup
5984 \@makeother\#%
5985 \@ifstar\bidix@ifpatchable@i\bidix@ifpatchable}
5986
5987 \long\def\bidix@ifpatchable#1#2{%
5988 \endgroup
5989 \bidix@dbg@init#1%
5990 \if@bidi@undef{#1}
5991   {\bidix@dbg@fail{def}\@secondoftwo}
5992   {\bidix@dbg@info{def}}%
5993   \if@bidi@defmacro{#1}
5994     {\bidix@dbg@info{mac}}%
5995     \bidix@ifscanable{#1}
5996     {\bidix@ifhashcheck{#2}
5997       {\bidix@dbg@info{tok}}%
5998       \bidix@ifpattern#1{#2}
5999       {\bidix@dbg@info{pat}}%

```



```

6000         \bidi@dbg@info{pos}\@firstoftwo}
6001         {\bidi@dbg@fail{pat}\@secondoftwo}}
6002         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6003         {\bidi@dbg@fail{tok}\@secondoftwo}}
6004         {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6005
6006 \long\def\bidi@ifpatchable@i#1{%
6007 \endgroup
6008 \bidi@dbg@init#1%
6009 \if@bidi@undef{#1}
6010   {\bidi@dbg@fail{def}\@secondoftwo}
6011   {\bidi@dbg@info{def}%
6012   \if@bidi@defmacro{#1}
6013     {\bidi@dbg@info{mac}%
6014     \if@bidi@defparam{#1}
6015       {\bidi@dbg@info{prm}%
6016       \bidi@ifscanable{#1}
6017         {\bidi@dbg@info{tok}%
6018         \bidi@dbg@info{pos}\@firstoftwo}
6019         {\bidi@dbg@fail{tok}\@secondoftwo}}
6020       {\bidi@dbg@info{prl}%
6021       \if@bidi@defprotected{#1}
6022         {\bidi@dbg@info{pro}}
6023         {}%
6024       \bidi@dbg@info{pos}\@firstoftwo}}
6025       {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6026
6027 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6028 \bidi@dbg@trce\bidi@patchcmd
6029 \begingroup
6030 \@makeother\%
6031 \bidi@@patchcmd}
6032
6033 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6034 \bidi@ifpatchable#2{#3}
6035   {\bidi@dbg@succ{ret}%
6036   \begingroup
6037   \edef\bidi@resrvda{%
6038     \def\noexpand\bidi@resrvda#####1\detokenize{macro:}####2->####3&{%
6039     #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb#####3}}%
6040     \def\noexpand\bidi@resrvdb#####1\detokenize{#3}####2&{%
6041     #####1\detokenize{#4}####2}%
6042     \edef\noexpand\bidi@resrvda{%
6043     \noexpand\bidi@resrvda\meaning#2&}}%
6044     \bidi@resrvda
6045     \bidi@patchcmd@scantoks\bidi@resrvda
6046     \let#2\bidi@resrvda
6047     \bidi@undef\bidi@resrvda
6048     \@firstoftwo}
6049   {\@secondoftwo}}
6050
6051 \def\bidi@patchcmd@scantoks#1{%
6052 \edef\bidi@resrvda{\endgroup
6053 \unexpanded{\makeatletter\scantokens}{#1}%

```




```

6054 \catcode\number`\@=\the\catcode`\@ \relax}%
6055 \bidi@resrvda}
6056
6057 \protected\def\bidi@ifscanable#1{%
6058 \begingroup
6059 \edef\bidi@resrvda{%
6060 \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6061 ####1\def\string\bidi@resrvda####2{####3}}}%
6062 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6063 \bidi@resrvda
6064 \makeatletter
6065 \scantokens\expandafter{\bidi@resrvda}%
6066 \expandafter\endgroup\ifx#1\bidi@resrvda
6067 \expandafter\@firstoftwo
6068 \else
6069 \expandafter\@secondoftwo
6070 \fi}
6071
6072
6073 \protected\long\def\bidi@ifhashcheck#1{%
6074 \begingroup
6075 \edef\bidi@resrvda{\detokenize{#1}}%
6076 \expandafter\endgroup
6077 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6078
6079 \edef\bidi@ifhashcheck@i#1&{%
6080 \noexpand\expandafter
6081 \noexpand\bidi@ifhashcheck@ii
6082 \noexpand\strip@prefix#1\string#\string#&}
6083
6084 \edef\bidi@ifhashcheck@ii{%
6085 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
6086 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
6087
6088
6089 \protected\long\def\bidi@ifpattern#1#2{%
6090 \begingroup
6091 \edef\bidi@resrvda{%
6092 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
6093 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
6094 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6095 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}}%
6096 \noexpand\bidi@resrvda}
6097 \bidi@resrvda\@secondoftwo\@firstoftwo}
6098
6099
6100 \newcommand{\if@bidi@defparam}{ }
6101 \long\edef\if@bidi@defparam#1{%
6102 \noexpand\expandafter\noexpand\bidi@ifdefparam
6103 \noexpand\meaning#1\detokenize{macro}:->&}
6104 \edef\bidi@ifdefparam{%
6105 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6106 \bidi@ifdefparam{\bidi@notblank{#2}}
6107

```



```

6108
6109 \newcommand{\if@bidi@defprotected}{}
6110 \long\edef\if@bidi@defprotected#1{%
6111   \noexpand\expandafter\noexpand\bidi@ifdefprotected
6112   \noexpand\meaning#1\string\protected&}
6113 \edef\bidi@ifdefprotected{%
6114   \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6115 \bidi@ifdefprotected{\bidi@notblank{#2}}
6116
6117
6118 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6119 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6120   \expandafter\let\csname #1\endcsname\bidi@undefined
6121 }
6122
6123 \let\bidi@dbg@trce@gobble
6124 \let\bidi@dbg@init@gobble
6125 \let\bidi@dbg@info@gobble
6126 \let\bidi@dbg@succ@gobble
6127 \let\bidi@dbg@fail@gobble
6128
6129
6130
6131 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6132   \bidi@dbg@trce\bidi@apptocmd
6133   \begingroup
6134   \@makeother\#%
6135   \bidi@hooktocmd\bidi@append}
6136
6137
6138
6139 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6140   \bidi@dbg@trce\bidi@pretocmd
6141   \begingroup
6142   \@makeother\#%
6143   \bidi@hooktocmd\bidi@prepend}
6144
6145 \long\def\bidi@hooktocmd#1#2#3{%
6146   \endgroup
6147   \bidi@dbg@init#2%
6148   \if@bidi@undef{#2}
6149     {\bidi@dbg@fail{def}\@secondoftwo}
6150     {\bidi@dbg@info{def}%
6151     \if@bidi@defmacro{#2}
6152       {\bidi@dbg@info{mac}%
6153       \if@bidi@defparam{#2}
6154         {\bidi@dbg@info{prm}%
6155         \bidi@ifscanable{#2}
6156           {\bidi@ifhashcheck{#3}
6157             {\bidi@dbg@info{tok}%
6158             \bidi@dbg@succ{ret}%
6159             \bidi@hooktocmd@i#1#2{#3}%
6160             \@firstoftwo}
6161             {\bidi@dbg@fail{hsh}\@secondoftwo}}

```



```

6162         {\bidi@dbg@fail{tok}\@secondoftwo}}
6163     {\bidi@dbg@info{prl}%
6164     \if@bidi@defprotected{#2}
6165     {\bidi@dbg@info{pro}%
6166     \bidi@dbg@succ{red}%
6167     \protected}
6168     {\bidi@dbg@succ{red}}}%
6169     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6170     \@firstoftwo}}
6171     {\bidi@dbg@fail{mac}\@secondoftwo}}
6172
6173 \long\def\bidi@hooktocmd#i#1#2#3{%
6174     \begingroup
6175     \edef\bidi@resrvda{%
6176         \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3{%
6177             ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6178         \edef\noexpand\bidi@resrvda{%
6179             \noexpand\bidi@resrvda\meaning#2&}}}%
6180     \bidi@resrvda
6181     \bidi@patchcmd@scantoks\bidi@resrvda
6182     \let#2\bidi@resrvda
6183     \bidi@undef\bidi@resrvda}
6184
6185 \long\def\bidi@append#1#2{#1#2}
6186 \long\def\bidi@prepend#1#2{#2#1}
6187
6188 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6189 %\newcommand*{\bidi@endpreamblehook}{}
6190
6191 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6192
6193 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6194 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6195
6196 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6197 \newcommand*{\bidi@beforeheaderhook}{}
6198
6199 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6200 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6201
6202 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6203 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6204
6205 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6206 \newcommand*{\bidi@beforefooterhook}{}
6207
6208 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6209 \newcommand*{\bidi@afterfooterhook}{}
6210
6211
6212 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipout}
6213 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6214
6215 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}

```



```

6216 \newcommand*{\bidi@atendoutputpagehook}{}
6217
6218 %\bidi@preto\document{%
6219 % \endgroup
6220 % \let\bidi@AtEndPreamble\@firstofone
6221 % \bidi@endpreamblehook
6222 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6223 % \bidi@undef\bidi@endpreamblehook
6224 % \begingroup}
6225
6226 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6227 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6228
6229 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6230 %\newcommand*{\bidi@afterendpreamblehook}{}
6231
6232 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6233
6234 %\bidi@appto\document{%
6235 % \let\bidi@AfterEndPreamble\@firstofone
6236 % \bidi@afterendpreamblehook
6237 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6238 % \bidi@undef\bidi@afterendpreamblehook
6239 % \ignorespaces}
6240
6241 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerunhook}
6242 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6243
6244 \bidi@patchcmd\enddocument
6245 {\fi}
6246 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6247 \bidi@afterenddocumentchecklabelsrerunhook
6248 \fi}
6249 {}
6250 {\PackageWarning{biditools}{Patching `string\enddocument' failed}}
6251
6252 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6253
6254 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6255 \newcommand*{\bidi@afterlastshipouthook}{}
6256
6257 \bidi@patchcmd\enddocument
6258 {\clearpage}
6259 {\clearpage
6260 \let\bidi@AfterLastShipout\@firstofone
6261 \bidi@afterlastshipouthook}
6262 {}
6263 {\let\bidi@clearpage\clearpage
6264 \def\clearpage{%
6265 \bidi@clearpage
6266 \let\bidi@AfterLastShipout\@firstofone
6267 \bidi@afterlastshipouthook}}
6268
6269 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}

```



```

6270 %\newcommand*{\bidi@afterenddocumenthook}{-}
6271
6272 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6273
6274 %\bidi@patchcmd\enddocument
6275 % {\deadcycles}
6276 % {\let\bidi@AfterEndDocument\@firstofone
6277 % \bidi@afterenddocumenthook
6278 % \deadcycles}
6279 % {}
6280 % {\let\bidi@@end\@end
6281 % \def\@end{%
6282 % \let\bidi@AfterEndDocument\@firstofone
6283 % \bidi@afterenddocumenthook
6284 % \bidi@@end}}
6285
6286 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6287 \bidi@csgappto{@bidi@begin@#1@hook}}
6288
6289 % Patch \begin<space> and \end<space> in newer LaTeX releases
6290 % \begin and \end in older ones.
6291 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6292 {\csname #1\endcsname}
6293 {\bidi@csuse{@bidi@begin@#1@hook}}%
6294 \csname #1\endcsname}
6295 {}
6296 {\bidi@warning{%
6297 \string\begin' failed!\MessageBreak
6298 \string\bidi@AtBeginEnvironment' will not work@gobble}}
6299
6300
6301
6302 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6303 \bidi@csgappto{@bidi@end@#1@hook}}
6304
6305 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6306 {\csname end#1\endcsname}
6307 {\bidi@csuse{@bidi@end@#1@hook}}%
6308 \csname end#1\endcsname}
6309 {}
6310 {\bidi@warning{%
6311 \string\end' failed!\MessageBreak
6312 \string\bidi@AtEndEnvironment' will not work@gobble}}
6313
6314
6315
6316 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6317 \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6318
6319 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6320 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6321 {}
6322 {\bidi@warning{%
6323 \string\begin' failed!\MessageBreak

```



```

6324     '\string\bid@BeforeBeginEnvironment' will not work@gobble}}
6325
6326 \bid@newrobustcmd{\bid@AfterEndEnvironment}[1]{%
6327   \bid@csgappto{@bid@afterend@#1@hook}}
6328
6329 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6330   {\if@ignore}
6331   {\bid@csuse{@bid@afterend@#1@hook}%
6332     \if@ignore}
6333   {}
6334   {\bid@warning{%
6335     Patching '\string\end' failed!\MessageBreak
6336     '\string\bid@AfterEndEnvironment' will not work@gobble}}
6337
6338 \def\bid@namedef#1{\expandafter\def\csname #1\endcsname}
6339 \def\bid@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6340 \def\bid@nameedef#1{\expandafter\edef\csname #1\endcsname}
6341 \def\bid@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6342
6343 % From David Carlisle:
6344 % The \stpelt redefinition below belongs to Heiko Oberdiek
6345 % See also https://github.com/ho-tex/oberdiek/issues/26
6346
6347 \let\@bid@stepcounter\stepcounter
6348 \let\@bid@@stpelt\stpelt
6349
6350 \def\@stpelt#1{%
6351   \ifcsname bid@reset@#1@perpage\endcsname
6352     \begingroup
6353     \let\stepcounter\@bid@stepcounter
6354     \@bid@@stpelt{#1}%
6355   \endgroup
6356   \expandafter\@gobbletwo
6357   \fi
6358   \@bid@@stpelt{#1}%
6359 }
6360
6361 \bid@pretocmd\stepcounter
6362   {%
6363     \if@bid@csundef{bid@stepcounterhook@#1}{-}{-}%
6364     \csname bid@stepcounterhook@#1\endcsname
6365   }%
6366   }-%
6367   {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6368
6369 \chardef\bid@backslash`\\
6370 \def\bidics#1{\texttt{\char\bid@backslash#1}}
6371
6372 % anonymous control sequences
6373 \newcount\bid@tempcountb
6374 \newtoks\bid@temptoksa
6375 \newtoks\bid@temptoksb
6376
6377 % Catcode (re)storing

```



```

6378 %
6379 \def\bidi@storecatcode#1%
6380   {\escapechar\m@ne
6381   \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6382   {\catcode`\string#1=
6383   \the\catcode\expandafter`\string#1}%
6384   \catcode\expandafter`\string#1=12\relax
6385   \escapechar`\\ \relax}
6386 \def\bidi@restorecatcode#1%
6387   {\escapechar\m@ne
6388   \csname bidi@restorecatcode\string#1\endcsname
6389   \escapechar`\\ \relax}
6390
6391 % Construct a control sequence inside \edef
6392 %
6393 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6394
6395 % Construct a control sequence out of #2, and give it to #1
6396 %
6397 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6398
6399 % Pick an escapecharacter
6400 % this presumes that its argument is a character.
6401 %
6402 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6403
6404 % Equality of strings.
6405 % the fast approach: does not work in expansion-only environment.
6406 %
6407 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6408   \ifx\bidi@eqs@a\bidi@eqs@b}
6409
6410 % Test by expansion only
6411 %
6412 \def\bidi@EqualStringX#1#2{00\fi
6413   \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6414 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6415   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi
6416   \else false\fi}
6417 \def\bidi@hop@ES#1\fi#2\fi{\fi\fi#1}
6418
6419 % Lexicographic ordering
6420 % note the use of \def
6421 % also note the characters 0,127,255 that are used,
6422 % these are not supposed to appear in the strings
6423 %
6424 {\catcode0=12 \catcode255=12 \catcode127=12
6425 \gdef\bidi@StringBeforeNC#1#2{00\fi
6426   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6427 \gdef\bidi@CharsBeforeNC#1#2^^?#3#4^^?{%
6428   \ifcat#1\relax\def\bidi@next{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6429   \else\ifcat#3\relax\def\bidi@next{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6430   \else\ifnum\lccode`#1<\lccode`#3
6431     \def\bidi@next{\csname iftrue\endcsname}%

```



```

6432         \else\ifnum\lccode`#1>\lccode`#3
6433             \def\bidinext{\csname iffalse\endcsname}%
6434             \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6435     \fi \fi \fi \fi
6436     \bidi@next}
6437 \gdef\bidi@StringBefore#1#2{00\fi
6438     \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6439 \gdef\bidi@CharsBefore#1#2^^?#3#4^^?{%
6440     \ifnum`#1<`#3
6441         \def\bidinext{\csname iftrue\endcsname}%
6442     \else\ifnum`#1>`#3
6443         \def\bidinext{\csname iffalse\endcsname}%
6444         \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6445     \fi\fi
6446     \bidi@next}
6447 }
6448
6449 % Null argument test
6450 %
6451 \def\bidi@empty{}
6452 \def\bidi@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
6453 \def\bidi@ifemptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
6454 %\def\bidi@ifempty#1{\def\bidi@cs@a{#1}\ifx\bidi@cs@a\bidi@empty}
6455 \def\bidi@IsEmptyList#1{00\fi\def\bidi@cs@a{#1}\ifx\cs@a\bidi@empty}
6456
6457 % Next character test
6458 %
6459 \def\bidi@NextChar#1#2#3{00\fi
6460     \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
6461     \futurelet\bidi@nxt@c@\bidi@ifnxtc}
6462 \def\bidi@ifNextChar#1#2#3{%
6463     \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
6464     \futurelet\bidi@nxt@c@\bidi@ifnxtc}
6465 \def@\bidi@ifnxtc{\ifx\bidi@nxt@ch\bidi@nxt@c \expandafter\bidi@nxt@a
6466     \else \expandafter\bidi@nxt@b \fi}
6467
6468 % Test for defined-ness of string as control sequence.
6469 % works inside \edef
6470 %
6471 \def\bidi@undefinedcs#1{00\fi\bidi@csarg\ifx{#1}\relax}
6472
6473 % Define uniquely defined dummy macros,
6474 % usually to serve as bumper blocks at the end of a list
6475 %
6476 \newcount\bidi@dummies
6477 \def\DefNewDummy#1{
6478     \if\bidi@undefinedcs{#1}\bidi@csarg\edef{#1}{bidi@dum\the\bidi@dummies}
6479         \advance\bidi@dummies@ne
6480     \else
6481         \bidi@error{Attempt at second definition of `#1'}
6482     \fi}
6483
6484 % string case statement
6485 % use: \bidi@switch \iftest{...} in:

```




```

6486%      item1 action1
6487%      ...
6488%      itemn actionn
6489%      default defaultaction [optional]
6490%      \endbidi@switch
6491% inspired by Jonathan Fine: Some Basic Control Macros
6492% Tugboat 12 #4
6493%
6494\let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{bidi@default}
6495\def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6496\def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6497 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6498 \bidi@switch {#1}
6499 }
6500% this version puts the test object in {}
6501\def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6502 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6503 \bidi@switch #1 in:
6504 }
6505% this version assumes that the test object is just one character
6506\def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6507 #1#2\bidi@switch@exit #3 \@bidi@fi
6508 \bidi@cswitch #1 in:
6509 }
6510% this version assumes that the test object can have an optional space
6511\def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6512 #1#2 \bidi@switch@exit #3 \@bidi@fi
6513 \bidi@bswitch #1 in:
6514 }
6515% this version can cope with significant spaces at the start of #3;
6516% #2 is macro argument
6517\def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6518 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6519 \bidi@mswitch #1 in:
6520 }
6521% idem; #2 does not have to be enclosed in braces
6522\def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6523 #1#2 \bidi@switch@exit #3 \@bidi@fi
6524 \bidi@fswitch #1 in:
6525 }
6526
6527% Routines for taking the value of a string:
6528% if the string is defined as control sequence
6529% take the value of that, otherwise take the string itself
6530
6531% String or value of control sequence
6532%
6533\def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6534
6535% String or control sequence
6536%
6537\def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6538
6539% String or \noexpand-ed control sequence;

```



```

6540 % for use in \edef
6541 %
6542 \newif\ifbidi@in@label
6543 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6544     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6545 \newtoks\bidi@are@these@correct
6546 \def\bidi@t@w@w#1{%
6547     \if\bidi@undefinedcs{#1}#1%
6548     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6549     \else
6550     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6551
6552 % List Manipulation .....
6553 % this assumes that #1 is a list of tokens, #2 is the name of a list
6554 %
6555 % Names of lists (and of items to pop into) are given as strings;
6556 % not as control sequences.
6557 %
6558 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6559 % basic append/prepend macro
6560 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6561 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6562 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6563 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6564 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6565 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6566 % variations:
6567 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6568 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6569 \def\bidi@append@list@to@list#1#2{%
6570 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6571 \def\bidi@prepend@list@to@list#1#2{%
6572 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6573 \def\bidi@append@cslist@to@cslist#1#2{%
6574 \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6575 \def\bidi@prepend@cslist@to@cslist#1#2{%
6576 \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6577 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6578 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6579
6580 \let\bidi@willbeunhskip\unhskip
6581
6582 % A few list macros for the user
6583 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6584 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6585 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6586 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6587 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6588     \if\bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6589     \else\bidi@csarg\the{#1}\fi
6590     \let\bidi@willbeunhskip\bidi@oldwbuskip}
6591
6592 \def\bidi@del@tok@from@list#1#2{\begingroup
6593     \long\def\bidi@cs@liste##1#2##2\bidi@tok@SM

```



```

6594     {\bidi@toks@lista{##1}\bidi@toks@listb{##2}%
6595     \edef\bidi@cs@listb{\global\bidi@csname{#1}=
6596         {\the\bidi@toks@lista\the\bidi@toks@listb}}%
6597     \bidi@cs@listb}%
6598     \edef\bidi@cs@lista{\noexpand\bidi@cs@liste{}}\expandafter\the\csname#1\endcsname\noexpand
6599     \bidi@cs@lista \endgroup}
6600 \def\bidi@in@front@of@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6601 \bidi@in@front@of@cslist\bidi@cs@lista}
6602 \long\def\bidi@in@front@of@cslist#1#2{\begingroup\bidi@toks@lista={#2}%
6603 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@list
6604 \endgroup}
6605 \long\def\bidi@local@in@front@of@list#1#2{\bidi@toks@lista={#2}%
6606 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6607     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6608     \expandafter\the\csname#1\endcsname}%
6609     }
6610 \def\bidi@set@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6611 \bidi@set@cslist\bidi@cs@lista}
6612 \long\def\bidi@set@cslist#1#2{\begingroup\bidi@toks@lista={#2}%
6613 \global#1=\expandafter{\the\bidi@toks@lista}\endgroup}
6614
6615 %%% Stack macros
6616 %
6617 % push in terms of prepending of lists
6618 \def\bidi@push@cs@onto@cs#1#2{\@bidi@prepend@to@cslist#1\expandafter{\expandafter\expandafter
6619 \def\bidi@push@onto#1{\bidi@csarg\bidi@push@onto@cs{#1}}
6620 \def\bidi@push@onto@cs#1#2{\@bidi@prepend@to@cslist#1}{\{#2}}
6621 \def\bidi@local@push@onto#1#2{\let\=\relax
6622 \bidi@local@in@front@of@list{#1}{\{#2}}
6623 % pop via auxiliary macro: #1 is result, #2 is stack
6624 % two cs arguments
6625 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6626     {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
6627 % two string arguments
6628 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6629     {\noexpand\@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@bidi@pop}
6630 \long\def\@bidi@popinto#1#2\@#3#4\@bidi@pop{#1{#3}#2{#4}}
6631 \def\bidi@copy@stacktop#1#2{%
6632     \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6633         {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6634     \bidi@cs@e}
6635 \def\@bidi@copy@stacktop#1\@#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6636 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6637 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6638 \def\bidi@length@of@csstack#1{\def\@#1{\advance\bidi@stack@length\@ne}%
6639 \bidi@stack@length\@m@ne \the#1}
6640 % turn a stack upside down
6641 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6642 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6643 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6644     \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\@m@ne
6645     \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6646 % \bidi@append@cslist@to@cslist\bidi@temptoksb\bidi@temptoksa% append a to b
6647 % \bidi@temptoksa\bidi@temptoksb

```



```

6648 \repeat% copy b to a
6649 #1\biditemptoksa \biditemptoksa\biditempty@toks}
6650% invert a stack into a list
6651 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
6652 \biditempcountb\z@ \biditemptoksa\biditempty@toks
6653 \loop\ifnum\biditempcountb<\bidistack@length
6654 \bidipop@into{\biditemptoksb}{#1}\advance\bidistack@length\m@ne
6655 \bidiaappend@list@to@list{\biditemptoksb}{\biditemptoksa}\repeat
6656 \csname#1\endcsname\biditemptoksa \biditemptoksa\biditempty@toks}
6657
6658
6659% General loop macro:
6660% \looprepeat
6661% \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6662% \untilcondition{<cond>} \whilecondition{<cond>}
6663% \doloopbody { <loop body> }
6664% where all control sequences in between \looprepeat and \doloopbody are optional.
6665%
6666% var: characters to form a control sequence;
6667% after \forvariable{index} you can access the loop counter as \index.
6668% This is a count register; to print it use \number\index.
6669% start,step,end: integers with obvious relations to the loop counter;
6670% start and step have a default value of 1
6671% cond: (sequence of commands ending in) any TeX \if... test.
6672%
6673% Count down instead of up with \downtovalue; the increment given in \bystep
6674% is always positive, and is added or subtracted accordingly.
6675%
6676% Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6677% at the beginning of the loop body.
6678%
6679% Exit from middle of loop: \breaklooprepeat
6680% use this at any place in the loop; in case of a conditional use
6681% \ifsomething ... \expandafter \breaklooprepeat \fi
6682%
6683% Note that the line ends do not cause spaces in the output.
6684%
6685% Technical details:
6686% The loop body is not executed in a group: the braces are those
6687% of a token list.
6688% The `forvariable' variable is \let to a \count register.
6689
6690
6691
6692% Auxiliary stuff
6693 \def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6694 \def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6695 \def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6696
6697 \newcount\bidilooprepeat@depth
6698 \let\endlooprepeat\relax \def\bidicsprotect{}
6699% Trace switches may later be defined by PAC_utils
6700 \let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6701

```



```

6702 % Main repeatloop macro
6703 % - go to next level and allocate unique counter/toks if this is the
6704 % first time we visit this level
6705 % - setup: gather bounds and termination conditions
6706 % - scoop up body in token list; after the assignment define and
6707 % execute body
6708 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6709 \advance\bidi@looprepeat@depth\@ne\relax
6710 \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count\relax
6711 \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepe
6712 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6713 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6714 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6715 \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}}\def\bidi@looprepeat@comp{>}\bidi@lo
6716 \edef\bidi@looprepeat@tmp
6717 {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}{\bidi@loop
6718 \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral{\bidi@looprepeat@tok
6719
6720 % Define and execute loop body
6721 % This is done with an \edef to construct the actual sequence
6722 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{%
6723 \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
6724 \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}%
6725 \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}%
6726 \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@loopre
6727 \noexpand\endlooprepeat
6728 \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}%
6729 \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
6730
6731 % Stop test
6732 %% In order to stop, issue a
6733 % \breaklooprepeat which scoops up the rest of the body and exits
6734 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6735 \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6736 }
6737
6738
6739 % Setup
6740 % gather bounds and termination conditions
6741 \def\bidi@looprepeat@setup#1{%
6742 \begingroup
6743 \def\forvariable##1{%
6744 \edef\bidi@looprepeat@tmp{%
6745 \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
6746 \bidi@looprepeat@tmp}%
6747 \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\ig
6748 \def\tovalue##1{%
6749 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6750 {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
6751 \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi
6752 \noexpand\expandafter \noexpand\breaklooprepeat
6753 \noexpand\fi}\ignorespaces}%
6754 \bidi@looprepeat@tmp}%
6755 \def\downvalue##1{%

```



```

6756     \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6757 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6758     \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc{-##1}\else
6759     \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc{##1}\fi\ignoresp
6760 \def\untilcondition##1{%
6761     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6762     {noexpand##1\relax
6763     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6764     \bidi@looprepeat@tmp}%
6765 \def}whilecondition##1{%
6766     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6767     {noexpand##1\relax \noexpand\else
6768     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6769     \bidi@looprepeat@tmp}%
6770     \fromvalue{\@ne}\bystep{\@ne}#1%
6771 \endgroup}
6772 \def\bidi@looprepeat@zero
6773     {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks-}\bidi@looprepeat@csromannumeral{b
6774     \bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body-}}
6775
6776 %\tracingmacros2
6777 %\newcount\tmpcount % used in some examples below
6778
6779 %\looprepeat \forvariable{i}
6780 %     \bystep{2}
6781 % \doloopbody {%
6782 %     \ifnum i=13 \expandafter\breaklooprepeat \fi
6783 %     \number i} %
6784 %}%
6785
6786 %\looprepeat \forvariable{iii}
6787 %     \tovalue{8}
6788 % \doloopbody {}
6789 %After loop: \number iii%
6790
6791 %\looprepeat \forvariable{i}
6792 %     \fromvalue{10}
6793 %     \bystep{2}
6794 %     \downtovalue{0}
6795 % \doloopbody {\number i} }
6796
6797 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6798 % \doloopbody {\number x} }
6799
6800 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6801
6802 %\looprepeat \forvariable{j}
6803 %     \untilcondition{\tmpcount j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6804 % \doloopbody {\number j} }
6805
6806 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6807 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6808 % \doloopbody {(\number i.\number j) }
6809 % }

```



```

6810
6811 % infinite loop
6812 %\looprepeat \doloopbody {}
6813
6814 \ExplSyntaxOn
6815 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6816 {
6817   \IfBooleanTF { #1 }
6818   {
6819     \@ifclassloaded{ #2 }
6820     { #4 }
6821     {
6822       \hook_gput_code:nnn
6823         { file / #2.\@clsextension / after }
6824         { #3 }
6825         { #4 }
6826     }
6827   }
6828   {
6829     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6830   }
6831 }
6832
6833 \seq_new:N \g__biditytools_input_file_seq
6834
6835 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6836 {
6837   \str_set:Nx \l_tmpa_str { #1 }
6838   \seq_if_in:NxTF \g__biditytools_input_file_seq { \str_use:N \l_tmpa_str }
6839   { \prg_return_true: }
6840   { \prg_return_false: }
6841 }
6842
6843 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6844 {
6845   \@ifclassloaded { #1 }
6846   {
6847     \__bidi_if_loading:nTF { #1.\@clsextension }
6848     { \prg_return_false: }
6849     { \prg_return_true: }
6850   }
6851   {
6852     \prg_return_false:
6853   }
6854 }
6855
6856 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6857 {
6858   \@ifpackageloaded { #1 }
6859   {
6860     \__bidi_if_loading:nTF { #1.\@pkgextension }
6861     { \prg_return_false: }
6862     { \prg_return_true: }
6863   }

```



```

6864     {
6865     \prg_return_false:
6866     }
6867 }
6868
6869 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6870 {
6871   \IfBooleanTF { #1 }
6872   {
6873     \bidi_if_class_loaded:nTF { #2 }
6874     { #4 }
6875     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6876   }
6877   {
6878     \bidi_if_class_loaded:nF
6879     { #2 }
6880     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6881   }
6882 }
6883
6884 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6885 {
6886   \IfBooleanTF { #1 }
6887   {
6888     \@ifpackageloaded{ #2 }
6889     { #4 }
6890     {
6891       \hook_gput_code:nnn
6892       { file / #2.\@pkgextension / after }
6893       { #3 }
6894       { #4 }
6895     }
6896   }
6897   {
6898     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6899   }
6900 }
6901
6902 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6903 {
6904   \IfBooleanTF { #1 }
6905   {
6906     \bidi_if_package_loaded:nTF { #2 }
6907     { #4 }
6908     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6909   }
6910   {
6911     \bidi_if_package_loaded:nF
6912     { #2 }
6913     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6914   }
6915 }
6916
6917 \clist_new:N \l__biditools_package_clist

```




```

6918 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6919 {
6920   Can-not~prevent-package-`#1'-from-being-loaded,~
6921   since-it~has~been~loaded~already~before~line~\msg_line_number:
6922 }
6923 \clist_new:N \g__biditools_prevent_clist
6924
6925 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6926 {
6927   \clist_set:Nx \l__biditools_package_clist { #3 }
6928   \clist_map_inline:Nn \l__biditools_package_clist
6929   {
6930     \@ifpackageloaded { ##1 }
6931     {
6932       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6933       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6934     }
6935     {
6936       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6937       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6938       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6939       {
6940         \tl_new:c { g__biditools_exclude_package_##1_tl }
6941       }
6942       \IfValueT { #2 }
6943       {
6944         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6945       }
6946       \disable@package@load { ##1 }
6947       { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6948     }
6949   }
6950   \clist_clear:N \l__biditools_package_clist
6951 }
6952
6953 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6954 {
6955   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6956   \clist_gclear:N \g__biditools_prevent_clist
6957 }
6958
6959 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6960 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6961
6962 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6963 {
6964   \clist_set:Nx \l__biditools_package_clist { #2 }
6965   \clist_map_inline:Nn \l__biditools_package_clist
6966   {
6967     \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
6968     {
6969       \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
6970       \reenable@package@load { ##1 }
6971       \IfBooleanT { #1 }

```



```

6972         { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
6973     }
6974 }
6975 }
6976
6977 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
6978 {
6979     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
6980     {
6981         \debug_suspend:
6982         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
6983         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
6984         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
6985         #2
6986         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
6987         \debug_resume:
6988     }
6989 }
6990
6991 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
6992 {
6993     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
6994     {
6995         \debug_suspend:
6996         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
6997         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
6998         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
6999         #2
7000         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7001         \debug_resume:
7002     }
7003 }
7004
7005 \clist_new:N \l__biditools_file_patch_clist
7006
7007 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7008 {
7009     \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7010     \clist_map_inline:Nn \l__biditools_file_patch_clist
7011     {
7012         \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7013     }
7014     \clist_clear:N \l__biditools_file_patch_clist
7015 }
7016
7017 \clist_new:N \l__biditools_package_patch_clist
7018
7019 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7020 {
7021     \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7022     \clist_map_inline:Nn \l__biditools_package_patch_clist
7023     {
7024         \ApplyPatchToPackage { ##1 } [ #2 ]
7025     }

```



```

7026 \clist_clear:N \l__biditools_package_patch_clist
7027 }
7028
7029 \clist_new:N \l__biditools_class_patch_clist
7030
7031 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7032 {
7033 \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7034 \clist_map_inline:Nn \l__biditools_class_patch_clist
7035 {
7036 \ApplyPatchToClass { ##1 } [ #2 ]
7037 }
7038 \clist_clear:N \l__biditools_class_patch_clist
7039 }
7040
7041 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7042 {
7043 \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7044 \clist_map_inline:Nn \l__biditools_class_patch_clist
7045 {
7046 \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7047 }
7048 \clist_clear:N \l__biditools_class_patch_clist
7049 }
7050 \ExplSyntaxOff
7051
7052 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7053 \newcommand*{\bidi@UnReplaceInput}
7054 {\undeclare@file@substitution}
7055 \newcommand*{\bidi@ReplacePackage}[2]{%
7056 \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7057 }
7058 \newcommand*{\bidi@UnReplacePackage}[1]{%
7059 \undeclare@file@substitution{#1.\@pkgextension}%
7060 }
7061 \newcommand*{\bidi@ReplaceClass}[2]{%
7062 \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7063 }
7064 \newcommand*{\bidi@UnReplaceClass}[1]{%
7065 \undeclare@file@substitution{#1.\@clsextension}%
7066 }
7067 \newcommand*{\bidi@BeforeFile}[1]{%
7068 \AddToHook{file/#1/before}%
7069 }
7070 \newcommand*{\bidi@AfterFile}[1]{%
7071 \AddToHook{file/#1/after}%
7072 }
7073 \newcommand*{\bidi@BeforeClass}[1]{%
7074 \bidi@BeforeFile{#1.\@clsextension}%
7075 }
7076 \newcommand*{\bidi@BeforePackage}[1]{%
7077 \bidi@BeforeFile{#1.\@pkgextension}%
7078 }
7079

```



```

7080 \long\def\ bidi@protected@immediate@write#1#2#3{%
7081 \begingroup
7082 #2%
7083 \let\protect\@unexpandable@protect
7084 \edef\reserved@a{\immediate\write#1{#3}}%
7085 \reserved@a
7086 \endgroup
7087 \if@nobeak\ifvmode\nobeak\fi\fi
7088 }
7089
7090 \def\ bidi@patch@AfterPackage#1{%
7091 \@ifpackageloaded{#1}{%
7092 \@firstofone
7093 }{%
7094 \AddToHook{package/#1/after}%
7095 }%
7096 }
7097
7098 \def\ bidi@patch@AfterFile#1{%
7099 \IfFileLoadedTF{#1}{%
7100 \@firstofone
7101 }{%
7102 \AddToHook{file/#1/after}%
7103 }%
7104 }
7105
7106 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7107 {
7108 \ bidi@patch@AfterFile{#1.#2}{%
7109 \ifnum\catcode`\@=11
7110 \input{#1-xetex-#3.def}%
7111 \else
7112 \ bidi@storecatcode\@
7113 \makeatletter
7114 \input{#1-xetex-#3.def}%
7115 \ bidi@restorecatcode\@
7116 \fi
7117 }%
7118 }
7119
7120 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7121 {
7122 \ bidi@patch@AfterFile{#1.#3}{#2}%
7123 }
7124
7125 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7126 {
7127 \AddToHook{begindocument/before}{%
7128 \IfPackageLoadedF{#1}{%
7129 \ApplyPatchToFiles{#2}[#3][#4]%
7130 }%
7131 }
7132 }
7133

```



```

7134 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7135 {
7136   \AddToHook{begindocument/before}{%
7137     \IfPackageLoadedF{#2}{%
7138       \ifnum\catcode`\@=11
7139         \@ifclassloaded{#1}{%
7140           \input{#1-xetex-#3.def}%
7141         }{}%
7142       \else
7143         \bidi@storecatcode\@
7144         \makeatletter
7145         \@ifclassloaded{#1}{%
7146           \input{#1-xetex-#3.def}%
7147         }{}%
7148         \bidi@restorecatcode\@
7149       \fi
7150     }%
7151   }
7152 }
7153
7154 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7155 {
7156   \AddToHook{begindocument/before}{%
7157     \IfPackageLoadedF{#2}{%
7158       \IfPackageLoadedT{#1}{%
7159         \ifnum\catcode`\@=11
7160           \input{#1-xetex-#3.def}%
7161         \else
7162           \bidi@storecatcode\@
7163           \makeatletter
7164           \input{#1-xetex-#3.def}%
7165           \bidi@restorecatcode\@
7166         \fi
7167       }%
7168     }%
7169   }
7170 }
7171
7172 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7173 {
7174   \AddToHook{begindocument/before}{%
7175     \ifnum\catcode`\@=11
7176       \@ifpackageloaded{#1}{#2}{#3}%
7177     \else
7178       \bidi@storecatcode\@
7179       \makeatletter
7180       \@ifpackageloaded{#1}{#2}{#3}%
7181       \bidi@restorecatcode\@
7182     \fi
7183   }
7184 }
7185
7186 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7187 {

```



```

7188   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7189   }
7190
7191 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7192   {
7193     \ApplyPatchIfPackageLoaded{#1}{#2}%
7194   }
7195
7196 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7197   {
7198     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7199   }
7200
7201 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7202   {
7203     \bidi@patch@AfterPackage{#1}{#2}%
7204   }
7205
7206 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7207   {
7208     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7209   }

```

53 File `bidituftefloat.sty`

```

7210 \NeedsTeXFormat{LaTeX2e}
7211 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7212 bidi implementation of tufte float]
7213 \RequirePackage{xifthen}
7214 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7215 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7216 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7217 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1@gobble}}
7218 \newboolean{@bidituftefloat@reversegeometry}
7219 \setboolean{@bidituftefloat@reversegeometry}{false}
7220 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7221 \newboolean{@bidituftefloat@a4paper}
7222 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7223 \newboolean{@bidituftefloat@b5paper}
7224 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7225 \newboolean{@bidituftefloat@symmetric}
7226 \newboolean{@bidituftefloat@twoside}
7227 \DeclareOption{twoside}{%
7228 \@twosidetrue \@mparswitchtrue%
7229 \setboolean{@bidituftefloat@twoside}{true}%
7230 \setboolean{@bidituftefloat@symmetric}{true}%
7231 }
7232 \DeclareOption{oneside}{%
7233 \@twosidefalse \@mparswitchfalse%
7234 \setboolean{@bidituftefloat@twoside}{false}%
7235 \setboolean{@bidituftefloat@symmetric}{false}%
7236 }
7237 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7238 \newboolean{@bidituftefloat@debug}

```



```

7239 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodete
7240 \ProcessOptions
7241 %% Globally sets the length
7242 \newcommand*\gsetlength}[2]{%
7243   \setlength{#1}{#2}%
7244   \global#1=#1\relax%
7245 }
7246
7247 %% Set the font sizes and baselines to match biditytfloat's books
7248 \renewcommand\normalsize{%
7249   \@setfontsize\normalsize\@xpt{14}%
7250   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7251   \abovedisplayshortskip \z@ \@plus3\p@
7252   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7253   \belowdisplayskip \abovedisplayskip
7254   \let\@listi\@listI}
7255 \normalbaselineskip=14pt
7256 \normalsize
7257 \renewcommand\footnotesize{%
7258   \@setfontsize\footnotesize\@viipt{10}%
7259   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7260   \abovedisplayshortskip \z@ \@plus\p@
7261   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7262   \def\@listi{\leftmargin\leftmargini
7263     \topsep 3\p@ \@plus\p@ \@minus\p@
7264     \parsep 2\p@ \@plus\p@ \@minus\p@
7265     \itemsep \parsep}%
7266   \belowdisplayskip \abovedisplayskip
7267 }
7268 %% Paragraph indentation and separation for marginal text
7269 \newcommand{\@biditytfloat@margin@par}{%
7270   \setlength{\RaggedRightParindent}{0.5pc}%
7271   \setlength{\JustifyingParindent}{0.5pc}%
7272   \setlength{\parindent}{0.5pc}%
7273   \setlength{\parskip}{Opt}%
7274 }
7275 \RequirePackage{ragged2e}
7276 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7277 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7278 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7279   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7280   }}
7281 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7282   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,
7283   }}{%
7284 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7285 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7286   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7287   }}
7288 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7289   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7290   }}
7291 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7292   {}

```



```

7293 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7294 \setlength\marginparpush{10pt}
7295 %% Font for margin items
7296 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7297 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7298 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7299 \newcommand{\@biditytfloat@justification}{\justifying}%
7300 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7301 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7302 \newboolean{\@biditytfloat@changepage}
7303 \IfFileExists{changepage.sty}{%
7304 \biditytfloatDebugInfoNL{Found changepage.sty}
7305 \RequirePackage[strict]{changepage}
7306 \setboolean{\@biditytfloat@changepage}{true}
7307 }{%
7308 \biditytfloatDebugInfoNL{Found chngpage.sty}
7309 \RequirePackage[strict]{chngpage}
7310 \setboolean{\@biditytfloat@changepage}{false}
7311 }
7312 \newboolean{\@biditytfloat@odd@page}
7313 \setboolean{\@biditytfloat@odd@page}{true}
7314 \newcommand*{\@biditytfloat@checkoddpage}{%
7315 \checkoddpage%
7316 \ifthenelse{\boolean{\@biditytfloat@changepage}}{%
7317 \ifoddpage%
7318 \setboolean{\@biditytfloat@odd@page}{true}%
7319 \else%
7320 \setboolean{\@biditytfloat@odd@page}{false}%
7321 \fi%
7322 }{%
7323 \ifcpoddpage%
7324 \setboolean{\@biditytfloat@odd@page}{true}%
7325 \else%
7326 \setboolean{\@biditytfloat@odd@page}{false}%
7327 \fi%
7328 }%
7329 }
7330 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7331 \newlength{\@biditytfloat@fullwidth}
7332 \newlength{\@biditytfloat@caption@fill}
7333 \newcommand{\biditytfloatRecalculate}{%
7334 \setlength{\@biditytfloat@overhang}{\marginparwidth}
7335 \addtolength{\@biditytfloat@overhang}{\marginparsep}
7336
7337 \setlength{\@biditytfloat@fullwidth}{\textwidth}
7338 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7339 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7340
7341 \setlength{\@biditytfloat@caption@fill}{\textwidth}
7342 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7343 }
7344 \AtBeginDocument{\biditytfloatRecalculate}
7345 \RequirePackage{optparams}% provides multiple optional arguments for commands
7346 \RequirePackage{placeins}

```




```

7347 \newsavebox{\@biditytfloat@margin@floatbox}
7348 \newenvironment{@biditytfloat@margin@float}[2] [-1.2ex]%
7349   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7350   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7351   \begin{minipage}{\marginparwidth}%
7352     \@biditytfloat@caption@font%
7353     \def\@capytype{#2}%
7354     \hbox{} \vspace*{#1}%
7355     \@biditytfloat@caption@justification%
7356     \@biditytfloat@margin@par%
7357     \noindent%
7358   }
7359   {\end{minipage}%
7360   \end{lrbox}%
7361   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7362 }
7363 \newenvironment{marginfigure}[1] [-1.2ex]%
7364   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7365   {\end{@biditytfloat@margin@float}}
7366 \newenvironment{margintable}[1] [-1.2ex]%
7367   {\begin{@biditytfloat@margin@float}[#1]{table}}
7368   {\end{@biditytfloat@margin@float}}
7369 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7370
7371 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7372 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7373   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}%
7374     {\def\@biditytfloat@float@debug@info{#1}}%
7375     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7376 }
7377 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7378 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debu
7379 \newboolean{@biditytfloat@float@recto}
7380 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7381 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7382 \newsavebox{\@biditytfloat@figure@box}
7383 \newsavebox{\@biditytfloat@caption@box}
7384 \let\@biditytfloat@orig@float\@float
7385 \let\@biditytfloat@orig@endfloat\end@float
7386 \newlength{\@biditytfloat@caption@vertical@offset}
7387 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7388 \newcommand{\@biditytfloat@stored@shortcaption}{}
7389 \newcommand{\@biditytfloat@stored@caption}{}
7390 \newcommand{\@biditytfloat@stored@label}{}
7391 \long\def\@biditytfloat@caption[#1][#2]#3{%
7392   \ifthenelse{\isempty{#1}}%
7393     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7394     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7395   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7396   \gdef\@biditytfloat@stored@caption{#3}%
7397 }
7398 \newcommand{\@biditytfloat@label}[1]{%
7399   \gdef\@biditytfloat@stored@label{#1}%
7400 }

```



```

7401 \newcommand{\@biditytfloat@fps}{}
7402 \newboolean{@biditytfloat@float@star}
7403 \newlength{\@biditytfloat@float@contents@width}
7404 \newenvironment{@biditytfloat@float}[3][htbp]%
7405   {% begin @biditytfloat@float
7406     % Should this float be full-width or just text-width?
7407     \ifthenelse{\equal{#3}{star}}%
7408       {\GlobalSetBoolean{@biditytfloat@float@star}{true}}%
7409       {\GlobalSetBoolean{@biditytfloat@float@star}{false}}%
7410     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7411     \@biditytfloat@checkoddpag%
7412     \ifthenelse{\boolean{@biditytfloat@odd@page}}%
7413       {\GlobalSetBoolean{@biditytfloat@float@recto}{true}}\@biditytfloat@float@debug{Dete
7414       {\GlobalSetBoolean{@biditytfloat@float@recto}{false}}\@biditytfloat@float@debug{Det
7415     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7416     \renewcommand{\@biditytfloat@fps}{#1}%
7417     \@biditytfloat@float@debug{Allowed positions: [#1]}%
7418     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7419       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7420       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7421     % Capture the contents of the \caption and \label commands to use later
7422     \global\let\@biditytfloat@orig@caption\caption%
7423     \global\let\@biditytfloat@orig@label\label%
7424     \renewcommand{caption}{\optparams{\@biditytfloat@caption}{[[] [Opt]}}}%
7425     \renewcommand{label}[1]{\@biditytfloat@label{##1}}%
7426     % Handle subfigure package compatibility
7427     \ifthenelse{\boolean{@biditytfloat@packages@subfigure}}{%
7428       \bidi@patchcmd{\subfigure}{%
7429         \let\subfig@oldlabel=\label
7430         }{%
7431         \let\subfig@oldlabel=\@biditytfloat@orig@label
7432         }
7433       {}
7434       {}
7435       \let\subtable=\subfigure
7436     }{}% subfigure package is not loaded
7437     \@biditytfloat@orig@float{#2}[#1]%
7438     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7439       {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7440       {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7441     \begin{lrbox}{\@biditytfloat@figure@box}%
7442     \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7443   }{% end @biditytfloat@float
7444     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7445     \end{minipage}%
7446     \end{lrbox}%
7447     % build the caption box
7448     \begin{lrbox}{\@biditytfloat@caption@box}%
7449     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7450       \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7451       \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7452       \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7453     \end{minipage}%
7454     \end{lrbox}%

```



```

7455 % now typeset the stored boxes
7456 \begin{fullwidth}%
7457   \begin{minipage}[\floatalignment]{\linewidth}%
7458     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7459       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7460       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7461     \end{minipage}%
7462   \end{fullwidth}%
7463   \@biditytfloat@orig@endfloat% end original LaTeX float environment
7464 % output debug info
7465 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7466   \typeout{^^J^^J----- biditytfloat package float information -----}%
7467   \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7468     {\typeout{Warning: Float unlabeled!}}%
7469     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7470   \typeout{Page number: [\thepage]}%
7471   \def\MessageBreak{^^J}%
7472   \typeout{\@biditytfloat@float@debug@info}%
7473   \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7474     {\typeout{Symmetric: [true]}}%
7475     {\typeout{Symmetric: [false]}}%
7476   \typeout{-----^^J^^J}%
7477 }{%
7478 % reset commands and temp boxes and captions
7479 \gdef\@biditytfloat@float@debug@info{%
7480 \let\caption\@biditytfloat@orig@caption%
7481 \let\label\@biditytfloat@orig@label%
7482 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7483 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7484 \gdef\@biditytfloat@stored@shortcaption{%
7485 \gdef\@biditytfloat@stored@caption{%
7486 \gdef\@biditytfloat@stored@label{%
7487 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7488 }
7489 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7490 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto
7491 % asymmetric or page is odd, so caption is on the right
7492 \hbox{%
7493   \usebox{#2}%
7494   \hspace{\marginparsep}%
7495   \smash{\raisebox{#1}{\usebox{#3}}}%
7496 }
7497 \@biditytfloat@float@debug{Caption position: [right]}%
7498 }{% symmetric pages and page is even, so caption is on the left
7499 \hbox{%
7500   \smash{\raisebox{#1}{\usebox{#3}}}%
7501   \hspace{\marginparsep}%
7502   \usebox{#2}%
7503 }
7504 \@biditytfloat@float@debug{Caption position: [left]}%
7505 }%
7506 }
7507 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7508 \ifthenelse{\equal{\floatalignment}{b}}%

```



```

7509     {% place caption above figure
7510     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@
7511     {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
7512     {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
7513     }{% place caption below figure
7514     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@
7515     {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
7516     {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
7517     }%
7518 }
7519 \renewenvironment{figure}[1][htbp]%
7520 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7521 {\end{@biditytfloat@float}}
7522 \renewenvironment{table}[1][htbp]
7523 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7524 {\end{@biditytfloat@float}}
7525 \renewenvironment{figure*}[1][htbp]%
7526 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7527 {\end{@biditytfloat@float}}
7528 \renewenvironment{table*}[1][htbp]%
7529 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7530 {\end{@biditytfloat@float}}
7531 \newenvironment{fullwidth}
7532 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7533   {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}\@biditytfloat@
7534   {\begin{adjustwidth}{-}\@biditytfloat@overhang}}%
7535   }%
7536   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7537     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}
7538     {\end{adjustwidth}}}%
7539   }
7540 \long\def\@caption#1[#2]#3{%
7541   \par%
7542   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7543   {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7544   \begingroup%
7545     \@parboxrestore%
7546     \if@minipage%
7547       \setminipage%
7548     \fi%
7549     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7550     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7551     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7552   \endgroup}
7553 %%
7554 % Turns newlines into spaces. Based on code from the `titlesec' package.
7555 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7556   \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}}%
7557 }
7558 \def\@biditytfloat@newlinetospace@i{%
7559   \ifdim\lastskip>\z@\else\space\fi
7560   \ignorespaces%
7561 }
7562 \DeclareRobustCommand{\newlinetospace}[1]{%

```



```

7563 \let\@biditytufteheading@orig@cr\% save the original meaning of \
7564 \def\{\@biditytufteheading@newlinetospace}% turn \ and \* into \space
7565 \let\newline\% turn \newline into \space
7566 #1%
7567 \let\@\@biditytufteheading@orig@cr% revert to original meaning of \
7568 }
7569 \RequirePackage{fancyhdr}
7570 \pagestyle{fancy}
7571 \AtBeginDocument{%
7572 \ifthenelse{\boolean{@biditytuftefloat@symmetric}}
7573   {\fancyhfoffset[LE,RO]{\@biditytuftefloat@overhang}}
7574   {\fancyhfoffset[RE,RO]{\@biditytuftefloat@overhang}}
7575 }
7576 % The running heads/feet don't have rules
7577 \renewcommand{\headrulewidth}{0pt}
7578 \renewcommand{\footrulewidth}{0pt}
7579 % The 'fancy' page style is the default style for all pages.
7580 \fancyhf{} % clear header and footer fields
7581 \ifthenelse{\boolean{@biditytuftefloat@symmetric}}
7582   {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7583   \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7584   {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7585 % The `plain' page style is used on chapter opening pages.
7586 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7587 % bottom of pages -- the folios are unexpressed.
7588 \fancypagestyle{plain}{
7589 \fancyhf{} % clear header and footer fields
7590 % Uncomment the following five lines of code if you want the opening page
7591 % of the chapter to express the folio in the lower outside corner.
7592 % \ifthenelse{\boolean{@biditytuftefloat@symmetric}}
7593 %   {\fancyfoot[LE,RO]{\thepage}}
7594 %   {\fancyfoot[RE,RO]{\thepage}}
7595 }
7596 % The `empty' page style suppresses all headers and footers.
7597 % It's used on title pages and `intentionally blank' pages.
7598 \fancypagestyle{empty}{
7599 \fancyhf{} % clear header and footer fields
7600 }
7601 \def\morefloats{% provides a total of 52 floats
7602 \ifthenelse{\isundefined{\bx@S}}{%
7603 \biditytuftefloatDebugInfoNL{Adding 34 more float slots.}
7604 \newinsert\bx@S
7605 \newinsert\bx@T
7606 \newinsert\bx@U
7607 \newinsert\bx@V
7608 \newinsert\bx@W
7609 \newinsert\bx@X
7610 \newinsert\bx@Y
7611 \newinsert\bx@Z
7612 \newinsert\bx@a
7613 \newinsert\bx@b
7614 \newinsert\bx@c
7615 \newinsert\bx@d
7616 \newinsert\bx@e

```



```

7617 \newinsert\bx@f
7618 \newinsert\bx@g
7619 \newinsert\bx@h
7620 \newinsert\bx@i
7621 \newinsert\bx@j
7622 \newinsert\bx@k
7623 \newinsert\bx@l
7624 \newinsert\bx@m
7625 \newinsert\bx@n
7626 \newinsert\bx@o
7627 \newinsert\bx@p
7628 \newinsert\bx@q
7629 \newinsert\bx@r
7630 \newinsert\bx@s
7631 \newinsert\bx@t
7632 \newinsert\bx@u
7633 \newinsert\bx@v
7634 \newinsert\bx@w
7635 \newinsert\bx@x
7636 \newinsert\bx@y
7637 \newinsert\bx@z
7638 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7639 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7640 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7641 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7642 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7643 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7644 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7645 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7646 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7647 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7648 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7649 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}]%
7650 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7651 \ifthenelse{\isundefined{\bx@AA}}{%
7652 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7653 \newinsert\bx@AA
7654 \newinsert\bx@BB
7655 \newinsert\bx@CC
7656 \newinsert\bx@DD
7657 \newinsert\bx@EE
7658 \newinsert\bx@FF
7659 \newinsert\bx@GG
7660 \newinsert\bx@HH
7661 \newinsert\bx@II
7662 \newinsert\bx@JJ
7663 \newinsert\bx@KK
7664 \newinsert\bx@LL
7665 \newinsert\bx@MM
7666 \newinsert\bx@NN
7667 \newinsert\bx@OO
7668 \newinsert\bx@PP
7669 \newinsert\bx@QQ
7670 \newinsert\bx@RR

```



```

7671 \newinsert\bx@SS
7672 \newinsert\bx@TT
7673 \newinsert\bx@UU
7674 \newinsert\bx@VV
7675 \newinsert\bx@WW
7676 \newinsert\bx@XX
7677 \newinsert\bx@YY
7678 \newinsert\bx@ZZ
7679 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7680 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7681 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7682 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7683 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7684 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7685 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7686 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7687 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7688 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7689 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7690 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7691 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7692 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7693 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7694 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7695 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7696 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7697 }{%
7698 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7699 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7700 }%
7701 }%
7702 }
7703 \newboolean{@biditytfloat@packages@subfigure}
7704 \setboolean{@biditytfloat@packages@subfigure}{false}
7705 \AtBeginDocument{%
7706 \@ifpackageloaded{subfigure}
7707 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7708 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7709 }
7710 \AtBeginDocument{%
7711 \@ifpackageloaded{float}{%
7712 % Save the redefined float environment (instead of the LaTeX float environment)
7713 \let\@biditytfloat@orig@float\float
7714 \let\@biditytfloat@orig@endfloat\endfloat
7715
7716 % Define Tuftian float styles (with the caption in the margin)
7717 \newcommand{\floatc@biditytfloatplain}[2]{%
7718 \begin{lrbox}{\@biditytfloat@caption@box}%
7719 \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{%}
7720 \@biditytfloat@caption@font{\@fs@font #1:} #2\par%
7721 \end{minipage}%
7722 \end{lrbox}%
7723 \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7724 }

```



```

7725 \newcommand{\fs@bidituftefloatplain}{%
7726 \def\@fs@cfont{\@bidituftefloat@caption@font}%
7727 \let\@fs@capt\floatc@bidituftefloatplain%
7728 \def\@fs@pre{}%
7729 \def\@fs@post{}%
7730 \def\@fs@mid{}%
7731 \let\@fs@iftopcapt\iftrue%
7732 }
7733 \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
7734 \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
7735 \newcommand\floatc@bidituftefloatruled[2]{%
7736 {\@fs@cfont #1} #2\par%
7737 }
7738 \newcommand\fs@bidituftefloatruled{%
7739 \def\@fs@cfont{\@bidituftefloat@caption@font}%
7740 \let\@fs@capt\floatc@bidituftefloatplain%
7741 \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7742 \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7743 \def\@fs@mid{}%
7744 \let\@fs@iftopcapt\iftrue%
7745 }
7746 \newcommand\fs@bidituftefloatboxed{%
7747 \def\@fs@cfont{}%
7748 \let\@fs@capt\floatc@bidituftefloatplain%
7749 \def\@fs@pre{%
7750 \setbox\@currbox\ vbox{\hbadness10000
7751 \moveleft3.4pt\ vbox{\advance\hsize by6.8pt
7752 \hrule \hbox to\hsize{\vrule\kern3pt
7753 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7754 }%
7755 \def\@fs@mid{\kern2pt}%
7756 \def\@fs@post{}%
7757 \let\@fs@iftopcapt\iftrue%
7758 }
7759 }{%
7760 % Nothing to do
7761 }
7762 }
7763 \AtBeginDocument{%
7764 \@ifpackageloaded{algorithm}{%
7765 % Set the float style to the Tuftian version
7766 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\AL
7767 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7768 \floatstyle{bidituftefloat\ALG@floatstyle}%
7769 \restylefloat{algorithm}%
7770 }{}%
7771 }{%
7772 % Nothing to do
7773 }
7774 }
7775 \PassOptionsToPackage{caption=false}{subfig}

```

54 File bidituftesidenote.sty




```

7776 \NeedsTeXFormat{LaTeX2e}
7777 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7778 bidi implementation of tufte sidenote]
7779 \RequirePackage{xifthen}
7780 \RequirePackage{ragged2e}
7781 \RequirePackage{setspace}
7782 \RequirePackage{biditools}
7783 \def\bidituftesidenotemarginpar{%
7784   \ifhmode
7785     \@bsphack
7786     \@floatpenalty -\@Mii
7787   \else
7788     \@floatpenalty-\@Miii
7789   \fi
7790   \ifinner
7791     \@parmoderr
7792     \@floatpenalty\z@
7793   \else
7794     \@next\@currbox\@freelist{}{}%
7795     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7796     {\@floatpenalty\z@
7797       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7798   \fi
7799   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7800 \long\def\@bidituftesidenotexmpar[#1]#2{%
7801   \@bidituftesidenotesavemarbox\@marbox{#1}%
7802   \@bidituftesidenotesavemarbox\@currbox{#2}%
7803   \@xympar}
7804 \long\def\@bidituftesidenoteympar#1{%
7805   \@bidituftesidenotesavemarbox\@marbox{#1}%
7806   \global\setbox\@currbox\copy\@marbox
7807   \@xympar}
7808 \long\def \@bidituftesidenotesavemarbox #1#2{%
7809   \global\setbox #1%
7810     \color@vbox
7811     \vtop{%
7812       \hsize\marginparwidth
7813       \@parboxrestore
7814       \@bidituftesidenotemarginparreset
7815       #2%
7816       \@minipagefalse
7817       \outer@nobreak
7818     }%
7819   \color@endbox
7820 }
7821 \def \@bidituftesidenotemarginparreset {%
7822   \reset@font
7823   \normalsize
7824   \@minipagetrue
7825   \everypar{\@minipagefalse\everypar{} \if@RTL@footnote\beginR\else\beginL\fi}%
7826 }
7827 \def\LTRbidituftesidenotemarginpar{%
7828   \ifhmode
7829     \@bsphack

```



```

7830 \floatpenalty -\@Mii
7831 \else
7832 \floatpenalty-\@Miii
7833 \fi
7834 \ifinner
7835 \@parmoderr
7836 \floatpenalty\z@
7837 \else
7838 \@next\@currbox\@freelist{}{}%
7839 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7840 {\floatpenalty\z@
7841 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7842 \fi
7843 \@ifnextchar [\@LTRbiditytesidenotexmpar\@LTRbiditytesidenoteympar}
7844 \long\def\@LTRbiditytesidenotexmpar[#1]#2{%
7845 \@LTRbiditytesidenotesavemarbox\@marbox{#1}%
7846 \@LTRbiditytesidenotesavemarbox\@currbox{#2}%
7847 \@xympar}
7848 \long\def\@LTRbiditytesidenoteympar#1{%
7849 \@LTRbiditytesidenotesavemarbox\@marbox{#1}%
7850 \global\setbox\@currbox\copy\@marbox
7851 \@xympar}
7852 \long\def \@LTRbiditytesidenotesavemarbox #1#2{%
7853 \global\setbox #1%
7854 \color@vbox
7855 \vtop{%
7856 \hsize\marginparwidth
7857 \@parboxrestore
7858 \@LTRbiditytesidenotemarginparreset
7859 #2%
7860 \@minipagefalse
7861 \outer@nobreak
7862 }%
7863 \color@endbox
7864 }
7865 \def \@LTRbiditytesidenotemarginparreset {%
7866 \reset@font
7867 \normalsize
7868 \@minipagetrue
7869 \everypar{\@minipagefalse\everypar{} \beginL}%
7870 }
7871 \def\RTLbiditytesidenotemarginpar{%
7872 \ifhmode
7873 \@bsphack
7874 \floatpenalty -\@Mii
7875 \else
7876 \floatpenalty-\@Miii
7877 \fi
7878 \ifinner
7879 \@parmoderr
7880 \floatpenalty\z@
7881 \else
7882 \@next\@currbox\@freelist{}{}%
7883 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%

```



```

7884     {\floatpenalty\z@
7885     \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7886 \fi
7887 \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7888 \long\def\@RTLbidituftesidenotexmpar[#1]#2{%
7889 \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7890 \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7891 \@xympar}
7892 \long\def\@RTLbidituftesidenoteympar#1{%
7893 \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7894 \global\setbox\@currbox\copy\@marbox
7895 \@xympar}
7896 \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7897 \global\setbox #1%
7898 \color@vbox
7899 \vtop{%
7900 \hsize\marginparwidth
7901 \@parboxrestore
7902 \@RTLbidituftesidenotemarginparreset
7903 #2%
7904 \@minipagefalse
7905 \outer@nobreak
7906 }%
7907 \color@endbox
7908 }
7909 \def \@RTLbidituftesidenotemarginparreset {%
7910 \reset@font
7911 \normalsize
7912 \@minipagetrue
7913 \everypar{\@minipagefalse\everypar{}}\beginR}%
7914 }
7915 \newcommand*{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
7916 \newcommand*{\@bidituftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7917 \newcommand*{\@bidituftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7918 \newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
7919 \newcommand*{\@bidituftesidenote@LTRsidenote@font}{\@bidituftesidenote@LTRmarginfont}
7920 \newcommand*{\@bidituftesidenote@RTLSidenote@font}{\@bidituftesidenote@RTLmarginfont}
7921 \newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
7922 \newcommand*{\@bidituftesidenote@LTRmarginnote@font}{\@bidituftesidenote@LTRmarginfont}
7923 \newcommand*{\@bidituftesidenote@RTLmarginnote@font}{\@bidituftesidenote@RTLmarginfont}
7924 \newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
7925 \newcommand*{\@bidituftesidenote@LTRcitation@font}{\@bidituftesidenote@LTRmarginfont}
7926 \newcommand*{\@bidituftesidenote@RTLCitation@font}{\@bidituftesidenote@RTLmarginfont}
7927 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
7928 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRsidenote@font}{#1}}
7929 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLSidenote@font}{#1}}
7930 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
7931 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRmarginnote@font}{#1}}
7932 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLmarginnote@font}{#1}}
7933 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
7934 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidituftesidenote@LTRcitation@font}{#1}}
7935 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidituftesidenote@RTLCitation@font}{#1}}
7936 \newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@font}
7937 \newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@font}

```



```

7938 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@
7939 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7940 \newcommand{\@bidityftesidenote@margin@par}{%
7941   \setlength{\RaggedRightParindent}{0.5pc}%
7942   \setlength{\JustifyingParindent}{0.5pc}%
7943   \setlength{\parindent}{0.5pc}%
7944   \setlength{\parskip}{0pt}%
7945 }
7946 %%
7947 % Globally sets the length
7948 \@ifundefined{gsetlength}{%
7949 \newcommand*{gsetlength}[2]{%
7950   \setlength{#1}{#2}%
7951   \global#1=#1\relax%
7952 }%
7953 }{}
7954
7955 %%
7956 % A function that removes leading and trailing spaces from the supplied macro.
7957 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7958 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7959 % being trimmed of leading and trailing white space.
7960 \catcode\Q=3
7961 \def\@bidityftesidenote@trim@spaces#1{%
7962   % Use grouping to emulate a multi-token afterassignment queue
7963   \begingroup%
7964   % Put ``\toks 0 {' into the afterassignment queue
7965   \aftergroup\toks\aftergroup0\aftergroup{%
7966   % Apply \trimb to the replacement text of #1, adding a leading
7967   % \noexpand to prevent brace stripping and to serve another purpose
7968   % later.
7969   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7970   % Transfer the trimmed text back into #1.
7971   \edef#1{\the\toks0}%
7972 }
7973 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7974 % clean up any leftover bizarre Qs, and trim a leading space. In
7975 % order for \trimc to work properly we need to put back a Q first.
7976 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7977 % Execute \vfuzz assignment to remove leading space; the \noexpand
7978 % will now prevent unwanted expansion of a macro or other expandable
7979 % token at the beginning of the trimmed text. The \endgroup will feed
7980 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7981 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7982 \catcode\Q=11
7983 %%
7984 % Citations should go in the margin as sidenotes
7985
7986 \RequirePackage{natbib}
7987 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
7988 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7989 \renewcommand\BR@b@bibitem[2][]{%
7990   \ifthenelse{\isempty{#1}}{%
7991     {\BR@b@bibitem{#2}}%

```



```

7992   {\BR@bibitem[#1]{#2}}%
7993   \BR@c@bibitem{#2}%
7994 }
7995 \bidi@AtEndPreamble{\nobibliography*}           % pre-loads the bibliography keys
7996 %%
7997 % Normal \cite behavior
7998 \newcounter{@bidituftesidenote@num@bibkeys}%
7999 \newcommand{@bidituftesidenote@normal@cite}[2][Opt]{%
8000 % Snag the last bibentry in the list for later comparison
8001 \let@temp@last@bibkey\empty%
8002 \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8003 \sidenote[][#1]{%
8004   % Loop through all the bibentries, separating them with semicolons and spaces
8005   \normalsize\normalfont@bidituftesidenote@citation@font%
8006   \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8007   \@for@temp@bibkeyx:=#2\do{%
8008     \ifthenelse{equal{@temp@last@bibkey}{@temp@bibkeyx}}%
8009     {\ifthenelse{equal{value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8010     \@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8011     \bibentry{@temp@bibkeyx}}%
8012     {\@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8013     \bibentry{@temp@bibkeyx};\ }%
8014     \stepcounter{@bidituftesidenote@num@bibkeys}%
8015   }%
8016 }%
8017 }
8018 \newcommand{@bidituftelTRSidenote@normal@cite}[2][Opt]{%
8019 % Snag the last bibentry in the list for later comparison
8020 \let@temp@last@bibkey\empty%
8021 \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8022 \LTRsidenote[][#1]{%
8023   % Loop through all the bibentries, separating them with semicolons and spaces
8024   \normalsize\normalfont@bidituftesidenote@LTRcitation@font%
8025   \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8026   \@for@temp@bibkeyx:=#2\do{%
8027     \ifthenelse{equal{@temp@last@bibkey}{@temp@bibkeyx}}%
8028     {\ifthenelse{equal{value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8029     \@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8030     \bibentry{@temp@bibkeyx}}%
8031     {\@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8032     \bibentry{@temp@bibkeyx};\ }%
8033     \stepcounter{@bidituftesidenote@num@bibkeys}%
8034   }%
8035 }%
8036 }
8037 \newcommand{@biditufterTLsidenote@normal@cite}[2][Opt]{%
8038 % Snag the last bibentry in the list for later comparison
8039 \let@temp@last@bibkey\empty%
8040 \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8041 \RTLsidenote[][#1]{%
8042   % Loop through all the bibentries, separating them with semicolons and spaces
8043   \normalsize\normalfont@bidituftesidenote@citation@font%
8044   \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8045   \@for@temp@bibkeyx:=#2\do{%

```



```

8046     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8047         {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8048         \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8049         \bibentry{\@temp@bibkeyx}}%
8050     {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8051     \bibentry{\@temp@bibkeyx};\ }%
8052     \stepcounter{\@bituftesidenote@num@bibkeys}%
8053 }%
8054 }%
8055 }
8056 %%
8057 % Macros for holding the list of cite keys until after the \sidenote
8058 \gdef\@bituftesidenote@citations{}% list of cite keys
8059 \newcommand\@bituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8060 \ifx\@bituftesidenote@citations\emptyelse
8061     \g@addto@macro\@bituftesidenote@citations{,}% separate by commas
8062 \fi
8063 \g@addto@macro\@bituftesidenote@citations{#1}
8064 }
8065 \newcommand{\@bituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8066 % Snag the last bibentry in the list for later comparison
8067 \let\@temp@last@bibkey\empty%
8068 \@for\@temp@bibkey:=\@bituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8069 \marginpar{%
8070     \hbox{} \vspace*{#1}%
8071     \@bituftesidenote@citation@font%
8072     \@bituftesidenote@citation@justification%
8073     \@bituftesidenote@margin@par% use parindent and parskip settings for marginal text
8074     \vspace*{-1\baselineskip}%
8075     % Loop through all the bibentries, separating them with semicolons and spaces
8076     \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8077     \@for\@temp@bibkeyx:=\@bituftesidenote@citations\do{%
8078         \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8079             {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8080             \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8081             \bibentry{\@temp@bibkeyx}}%
8082             {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8083             \bibentry{\@temp@bibkeyx};\ }%
8084         \stepcounter{\@bituftesidenote@num@bibkeys}%
8085     }%
8086 }%
8087 }
8088 %%
8089 % \cite behavior when executed within a sidenote
8090 \newcommand{\@bituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8091 \newcommand{\@bituftesidenote@infootnote@cite}[1]{%
8092     \@bituftesidenote@add@citation{#1}
8093 }
8094 %%
8095 % Set the default \cite style. This is set and reset by the \sidenote command.
8096 \let\cite\@bituftesidenote@normal@cite
8097 \let\LTRcite\@bituftelTRSidenote@normal@cite
8098 \let\RTLcite\@bitufterteRLsidenote@normal@cite
8099 %%

```



```

8100 % Transform existing \footnotes into \sidenotes
8101 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8102 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8103 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8104 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8105 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8106 % sidenote's text block.
8107 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidityftesidenote
8108 % Set the in-text footnote mark in the same typeface as the body text itself.
8109 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8110 \providecommand*\multiplefootnotemarker}{3sp}
8111 \providecommand*\multfootsep}{,}
8112 \bidi@patch@AfterPackage{bidi}{\fi}
8113 \renewcommand{\@footnotemark}{\fi}
8114 \leavevmode%
8115 \ifhmode%
8116 \edef\@x@sf{\the\spacefactor}%
8117 \@bidityftesidenote@check@multiple@sidenotes%
8118 \nobreak%
8119 \fi%
8120 \@makefnmark%
8121 \ifhmode\spacefactor\@x@sf\fi%
8122 \relax%
8123 }%
8124 }
8125 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{\fi}
8126 \ifdim\lastkern=\multiplefootnotemarker\relax%
8127 \edef\@x@sf{\the\spacefactor}%
8128 \unkern%
8129 \textsuperscript{\multfootsep}%
8130 \spacefactor\@x@sf\relax%
8131 \fi
8132 }
8133 \bidi@patch@AfterPackage{bidi}{\fi}
8134 \renewcommand\@footnotetext[2][Opt]{\fi}
8135 \bidityftesidenotemarginpar{\fi}
8136 \hbox{\vspace*{#1}}%
8137 \def\baselinestretch {\setspace@singlespace}%
8138 \reset@font%
8139 \bidi@@footnotetext@font% \reset@font\footnotesize%
8140 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8141 \vspace*{-1\baselineskip}\noindent%
8142 \protected@edef\@currentlabel{\fi}
8143 \csname p@footnote\endcsname\@thefnmark%
8144 }%
8145 \color@begingroup%
8146 \@makefnmark{\fi}
8147 \ignorespaces#2%
8148 }%
8149 \color@endgroup%
8150 }%
8151 }%
8152 \renewcommand\@LTRfootnotetext[2][Opt]{\fi}
8153 \LTRbidityftesidenotemarginpar{\fi}

```



```

8154 \hbox{}\vspace*{#1}%
8155 \def\baselinestretch {\setspace@singlespace}%
8156 \reset@font%
8157 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8158 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8159 \vspace*{-1\baselineskip}\noindent%
8160 \protected@edef\@currentlabel{%
8161   \csname p@footnote\endcsname\@thefnmark%
8162 }%
8163 \color@begingroup%
8164   \@makefntext{%
8165     \ignorespaces#2%
8166   }%
8167 \color@endgroup%
8168 }%
8169 }%
8170 \renewcommand\@RTLfootnotetext [2] [Opt] {%
8171 \RTLbidiuftesidenotemarginpar{%
8172   \hbox{}\vspace*{#1}%
8173   \def\baselinestretch {\setspace@singlespace}%
8174   \reset@font%
8175   \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8176   \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8177   \vspace*{-1\baselineskip}\noindent%
8178   \protected@edef\@currentlabel{%
8179     \csname p@footnote\endcsname\@thefnmark%
8180   }%
8181   \color@begingroup%
8182     \@makefntext{%
8183       \ignorespaces#2%
8184     }%
8185   \color@endgroup%
8186 }%
8187 }%
8188 }
8189 %
8190 % Define \sidenote command. Can handle \cite.
8191 \newlength{\@bidiuftesidenote@sidenote@vertical@offset}
8192 \setlength{\@bidiuftesidenote@sidenote@vertical@offset}{0pt}
8193 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8194 \long\def\@bidiuftesidenote@sidenote[#1] [#2]#3{%
8195   \let\cite\@bidiuftesidenote@infootnote@cite% use the in-sidenote \cite command
8196   \gdef\@bidiuftesidenote@citations{}% clear out any old citations
8197   \ifthenelse{\NOT\isempty{#2}}{%
8198     \gsetlength{\@bidiuftesidenote@sidenote@vertical@offset}{#2}%
8199   }{%
8200     \gsetlength{\@bidiuftesidenote@sidenote@vertical@offset}{0pt}%
8201   }%
8202   \ifthenelse{\isempty{#1}}{%
8203     % no specific footnote number provided
8204     \stepcounter\@mpfn%
8205     \protected@xdef\@thefnmark{\thempfn}%
8206     \@footnotemark\@footnotetext[\@bidiuftesidenote@sidenote@vertical@offset]{#3}%
8207   }{%

```




```

8208 % specific footnote number provided
8209 \begingroup%
8210 \csname c@\mpfn\endcsname #1\relax%
8211 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8212 \endgroup%
8213 \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8214 }%
8215 \@bidituftesidenote@print@citations% print any citations
8216 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
8217 \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LTR
8218 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RTL
8219 \unskip\ignorespaces% remove extra white space
8220 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8221 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8222 }
8223 \long\def\@LTRbidituftesidenote@sidenote[#1][#2]#3{%
8224 \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8225 \gdef\@bidituftesidenote@citations{}% clear out any old citations
8226 \ifthenelse{\NOT\isempty{#2}}{%
8227 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
8228 }{%
8229 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8230 }%
8231 \ifthenelse{\isempty{#1}}{%
8232 % no specific footnote number provided
8233 \stepcounter\mpfn%
8234 \protected@xdef\@thefnmark{\thempfn}%
8235 \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8236 }{%
8237 % specific footnote number provided
8238 \begingroup%
8239 \csname c@\mpfn\endcsname #1\relax%
8240 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8241 \endgroup%
8242 \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8243 }%
8244 \@bidituftesidenote@print@citations% print any citations
8245 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
8246 \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LTR
8247 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RTL
8248 \unskip\ignorespaces% remove extra white space
8249 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8250 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8251 }
8252 \long\def\@RTLbidituftesidenote@sidenote[#1][#2]#3{%
8253 \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8254 \gdef\@bidituftesidenote@citations{}% clear out any old citations
8255 \ifthenelse{\NOT\isempty{#2}}{%
8256 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
8257 }{%
8258 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8259 }%
8260 \ifthenelse{\isempty{#1}}{%
8261 % no specific footnote number provided

```



```

8262 \stepcounter\@mpfn%
8263 \protected@xdef\@thefnmark{\thempfn}%
8264 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8265 }-%
8266 % specific footnote number provided
8267 \begingroup%
8268 \csname c@\@mpfn\endcsname #1\relax%
8269 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8270 \endgroup%
8271 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8272 }%
8273 \@bidityftesidenote@print@citations% print any citations
8274 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8275 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8276 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8277 \unskip\ignorespaces% remove extra white space
8278 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8279 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8280 }
8281 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8282 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8283 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8284 \bidi@patch@AfterPackage{bidi}{%
8285 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8286 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8287 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8288 }
8289 %%
8290 % Sidenote without the footnote mark
8291 \newcommand\marginnote[2] [Opt]{%
8292 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8293 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8294 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity
8295 \@bidityftesidenote@print@citations% print any citations
8296 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8297 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8298 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8299 }
8300 \newcommand\LTRmarginnote [2] [Opt]{%
8301 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8302 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8303 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8304 \@bidityftesidenote@print@citations% print any citations
8305 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8306 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8307 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8308 }
8309 \newcommand\RTLmarginnote [2] [Opt]{%
8310 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8311 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8312 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8313 \@bidityftesidenote@print@citations% print any citations
8314 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8315 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR

```



```

8316 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8317 }

```

55 File `bidituftetoc.sty`

```

8318 \NeedsTeXFormat{LaTeX2e}
8319 \ProvidesPackage{bidituftetoc}[2011/06/17 v0.1
8320 bidi implementation of tufte toc]
8321 \RequirePackage{titlesec,titletoc,xifthen,biditools}
8322 \newcommand{\@bidityftetoc@pkgname}{bidituftetoc}
8323 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8324 %%
8325 % Turn off section numbering
8326 \setcounter{secnumdepth}{-1}
8327 \newboolean{@bidityftetoc@toc}
8328 \setboolean{@bidityftetoc@toc}{true}
8329 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8330 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8331 \ProcessOptions
8332 %%
8333 % Make Tuftian-style section headings and TOC formatting
8334 \bidi@patch@AfterPackage{bidi}{%
8335 \titleformat{\chapter}%
8336 [display]% shape
8337 {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8338 {\itshape\huge\thechapter}% label
8339 {0pt}% horizontal separation between label and title body
8340 {\huge\rmfamily\itshape}% before the title body
8341 [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8342 \titleformat{\section}%
8343 [hang]% shape
8344 {\normalfont\Large\itshape}% format applied to label+text
8345 {\thesection}% label
8346 {1em}% horizontal separation between label and title body
8347 {}% before the title body
8348 []% after the title body
8349 \titleformat{\subsection}%
8350 [hang]% shape
8351 {\normalfont\large\itshape}% format applied to label+text
8352 {\thesubsection}% label
8353 {1em}% horizontal separation between label and title body
8354 {}% before the title body
8355 []% after the title body
8356 \titleformat{\paragraph}%
8357 [runin]% shape
8358 {\normalfont\itshape}% format applied to label+text
8359 {\theparagraph}% label
8360 {1em}% horizontal separation between label and title body
8361 {}% before the title body
8362 []% after the title body
8363 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8364 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8365 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8366 }

```



```

8367 % Subsubsection and following section headings shouldn't be used.
8368 % See Bringhurst's The Elements of Typography, section 4.2.2.
8369 \renewcommand\subsubsection{%
8370   \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8371     \MessageBreak See Robert Bringhurst's The Elements of
8372     \MessageBreak Typographic Style, section 4.2.2.
8373     \MessageBreak \noexpand\subsubsection was used}
8374   {From Bringhurst's The Elements of Typographic Style, section 4.2.2: Use as
8375     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8376     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8377 }
8378 \renewcommand\subparagraph{%
8379   \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8380     \MessageBreak See Robert Bringhurst's The Elements of
8381     \MessageBreak Typographic Style, section 4.2.2.
8382     \MessageBreak \noexpand\subparagraph was used}
8383   {From Bringhurst's The Elements of Typographic Style, section 4.2.2: Use as
8384     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8385     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8386 }
8387 % Formatting for main TOC (printed in front matter)
8388 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8389 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8390   \bidi@patch@AfterPackage{bidi}{%
8391     \titlecontents{part}% FIXME
8392       [0em] % distance from left margin
8393       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8394       {\contentslabel{2em}} % before w/label (label = ``II'')
8395       {} % before w/o label
8396       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8397       [\end{fullwidth}] % after
8398     \titlecontents{chapter}%
8399       [0em] % distance from left margin
8400       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8401       {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8402       {\hspace*{0em}} % before w/o label
8403       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8404       [\end{fullwidth}] % after
8405     \titlecontents{section}% FIXME
8406       [0em] % distance from left margin
8407       {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8408       {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8409       {\hspace*{2em}} % before w/o label
8410       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8411       [\end{fullwidth}] % after
8412     \titlecontents{subsection}% FIXME
8413       [0em] % distance from left margin
8414       {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8415       {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8416       {\hspace*{4em}} % before w/o label
8417       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8418       [\end{fullwidth}] % after
8419     \titlecontents{paragraph}% FIXME
8420       [0em] % distance from left margin

```



```

8421     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8422     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8423     {\hspace*{6em}} % before w/o label
8424     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8425     [\end{fullwidth}] % after
8426 }%
8427 }{}
8428 %%
8429 % Format lists of figures/tables
8430 \renewcommand\listoffigures{%
8431   \@ifundefined{chapter}%
8432     {\section*{\listfigurename}}%
8433     {\chapter*{\listfigurename}}%
8434 %   \begin{fullwidth}%
8435     \@starttoc{lof}%
8436 %   \end{fullwidth}%
8437 }
8438 \renewcommand\listoftables{%
8439   \@ifundefined{chapter}%
8440     {\section*{\listtablename}}%
8441     {\chapter*{\listtablename}}%
8442 %   \begin{fullwidth}%
8443     \@starttoc{lot}%
8444 %   \end{fullwidth}%
8445 }
8446 \newcommand{\@biditytetoc@lof@line}[2]{%
8447   % #1 is the figure/table number and its caption text
8448   % #2 is the page number on which the figure/table appears
8449   \leftskip 0.0em
8450   \rightskip 0em
8451   \parfillskip 0em plus 1fil
8452   \parindent 0.0em
8453   \@afterindenttrue
8454   \interlinepenalty\@M
8455   \leavevmode
8456   \@tempdima 2.0em
8457   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8458   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8459   {#1}\nobreak\qquad\nobreak#2%
8460   \par%
8461 }
8462 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8463 \let\l@table\l@figure

```

56 File `bidituftegeneralstructure.sty`

```

8464 \NeedsTeXFormat{LaTeX2e}
8465 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8466 bidi implementation of tufte general structure]
8467 \renewcommand\small{%
8468   \@setfontsize\small\@ixpt{12}%
8469   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8470   \abovedisplayshortskip \z@ \@plus2\p@
8471   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@

```



```

8472 \def\@listi{\leftmargin\leftmargini
8473         \topsep 4\p@ \@plus2\p@ \@minus2\p@
8474         \parsep 2\p@ \@plus\p@ \@minus\p@
8475         \itemsep \parsep}%
8476 \belowdisplayskip \abovedisplayskip
8477 }
8478 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8479 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8480 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8481 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8482 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8483 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8484 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8485 \setlength\leftmargini {1pc}
8486 \setlength\leftmarginii {1pc}
8487 \setlength\leftmarginiii {1pc}
8488 \setlength\leftmarginiv {1pc}
8489 \setlength\leftmarginv {1pc}
8490 \setlength\leftmarginvi {1pc}
8491 \setlength\labelsep {0.5pc}
8492 \setlength\labelwidth {\leftmargini}
8493 \addtolength\labelwidth{-\labelsep}
8494 \setlength{\parindent}{1.0pc}%
8495 \setlength{\parskip}{0pt}%
8496 \RequirePackage{ragged2e}
8497 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8498 % Paragraph indentation and separation for normal text
8499 \newcommand{\@biditytgeneralstructure@reset@par}{%
8500 \setlength{\RaggedRightParindent}{1.0pc}%
8501 \setlength{\JustifyingParindent}{1.0pc}%
8502 \setlength{\parindent}{1pc}%
8503 \setlength{\parskip}{0pt}%
8504 }
8505 \@biditytgeneralstructure@reset@par
8506 % Require paralist package for tighter lists
8507 \RequirePackage{paralist}
8508 % Add rightmargin to compactenum
8509 \def\@compactenum@{%
8510 \expandafter\list\csname label\@enumctr\endcsname{%
8511 \usecounter{\@enumctr}}%
8512 \rightmargin=2em% added this
8513 \parsep\plparsep
8514 \itemsep\plitemsep
8515 \topsep\pltopsep
8516 \partopsep\plpartopsep
8517 \def\makelabel##1{\hss\llap{##1}}}}
8518 %%
8519 % An environment for paragraph-style section
8520 \providecommand\newthought[1]{%
8521 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8522 \noindent\textbf{##1}}%
8523 }
8524 %%
8525 % Redefine the display environments (quote, quotation, etc.)

```



```

8526 \renewenvironment{verse}
8527     {\let\\@centercr
8528      \list{}{\itemsep      \z@
8529              \itemindent  -1pc%
8530              \listparindent\itemindent
8531              \rightmargin \leftmargin
8532              \advance\leftmargin 1pc}%
8533      \small%
8534      \item\relax}
8535     {\endlist}
8536 \renewenvironment{quotation}
8537     {\list{}{\listparindent 1pc%
8538              \itemindent      \listparindent
8539              \rightmargin     \leftmargin
8540              \parsep          \z@ \@plus\p@}%
8541     \small%
8542     \item\relax\noindent\ignorespaces}
8543     {\endlist}
8544 \renewenvironment{quote}
8545     {\list{}{\rightmargin\leftmargin}%
8546     \small%
8547     \item\relax}
8548     {\endlist}
8549 % Italicize description run-in headings (instead of the default bold)
8550 \renewcommand*{\descriptionlabel[1]}{\hspace\labelsep\normalfont\em #1}
8551 %%
8552 % Redefine \bibsection to not mark the running heads.
8553 % (Code modified from natbib.sty.)
8554 \@ifundefined{chapter}%
8555   {\renewcommand\bibsection{\section*{\refname}}}
8556   {\@ifundefined{NAT@sectionbib}%
8557     {\renewcommand\bibsection{\chapter{\bibname}}}
8558     {\renewcommand\bibsection{\section*{\bibname}}}}
8559 \RequirePackage{multicol}
8560 \renewenvironment{theindex}{%
8561 \@ifundefined{chapter}%
8562   {\section*{\indexname}}%
8563   {\chapter{\indexname}}%
8564 \begin{fullwidth}%
8565 \small%
8566 \parskip0pt%
8567 \parindent0pt%
8568 \let\item\@idxitem%
8569 \begin{multicols}{3}%
8570 }{%
8571 \end{multicols}%
8572 \end{fullwidth}%
8573 }
8574 \AtBeginDocument{%
8575 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8576 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8577 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8578 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8579 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```



57 File `bidituftehyperref.sty`

```
8580 \NeedsTeXFormat{LaTeX2e}
8581 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8582 bidi implementation of tufte hyperref]
8583 %%
8584 % Color
8585 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8586 \newboolean{@bidituftehyperref@loadhyper}
8587 \setboolean{@bidituftehyperref@loadhyper}{true}
8588 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8589 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8590 \ProcessOptions
8591 %% Loads the hyperref package and sets some default options.
8592 \newcommand{\bidituftehyperrefLoadHyperref}{%
8593 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8594 \hypersetup{%
8595     bookmarksdepth = section,
8596     citecolor = DarkGreen,
8597     linkcolor = DarkBlue,
8598 %     pagecolor = DarkBlue,
8599     urlcolor = DarkGreen,
8600 }%
8601 }
8602 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8603 \bidituftehyperrefLoadHyperref%
8604 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8605 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8606 }
```

58 File `bidituftetitle.sty`

```
8607 \NeedsTeXFormat{LaTeX2e}
8608 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8609 bidi implementation of tufte title]
8610 \RequirePackage{biditools}
8611 %%
8612 % `titlepage' option -- creates a full title page with \maketitle
8613 \newboolean{@bidituftetitle@titlepage}
8614 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8615 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8616 % Default `book' and `handout' options
8617 \@ifclassloaded{book}{%
8618 \ExecuteOptions{titlepage}}{%
8619 \@ifclassloaded{article}{%
8620 \ExecuteOptions{notitlepage}}%
8621 {}}
8622 \ProcessOptions
8623 %%
8624 % Modified \title, \author, and \date commands. These store the
8625 % (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
8626 \newcommand{\plaintitle}{}% plain-text-only title
8627 \newcommand{\plainauthor}{}% plain-text-only author
8628 \newcommand{\plainpublisher}{}% plain-text-only publisher
```




```

8629 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8630 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8631 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8632 \newcommand{\@publisher}{}% full publisher with \thanks{}
8633 \newcommand{\thedata}{\today}
8634 \bidi@patch@AfterPackage{bidi}{%
8635 \renewcommand{\thanks}[1]{\footnote{#1}}
8636 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8637 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8638 }
8639 \renewcommand{\title}[2] []{%
8640 \gdef\@title{#2}%
8641 \begingroup%
8642 % TODO store contents of \thanks command
8643 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8644 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8645 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8646 \protected@xdef\thanklesstitle{#2}%
8647 \endgroup%
8648 \ifthenelse{\isempty{#1}}%
8649 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8650 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8651 \@ifundefined{hypersetup}%
8652 {}% hyperref is not loaded; do nothing
8653 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8654 }
8655 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8656 \renewcommand{\author}[2] []{%
8657 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8658 \begingroup%
8659 % TODO store contents of \thanks command
8660 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8661 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8662 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8663 \protected@xdef\thanklessauthor{#2}%
8664 \endgroup%
8665 \ifthenelse{\isempty{#1}}%
8666 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8667 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8668 \@ifundefined{hypersetup}%
8669 {}% hyperref is not loaded; do nothing
8670 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8671 }
8672 \renewcommand{\date}[1]{}%
8673 \gdef\@date{#1}%
8674 \begingroup%
8675 % TODO store contents of \thanks command
8676 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8677 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8678 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8679 \protected@xdef\thedata{#1}%
8680 \endgroup%
8681 }
8682 %%

```



```

8683 % Provides a \publisher command to set the publisher
8684 \newcommand{\publisher}[2] []{%
8685   \gdef\@publisher{#2}%
8686   \begingroup%
8687     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8688     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8689     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8690     \protected@xdef\thanklesspublisher{#2}%
8691   \endgroup%
8692   \ifthenelse{\isempty{#1}}
8693     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8694     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8695 }
8696 %%
8697 % Produces a full title page
8698 \newcommand{\maketitlepage}[0]{%
8699   \cleardoublepage%
8700   {%
8701     \bfseries%
8702     \begin{fullwidth}%
8703       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8704       \vspace{11.5pc}%
8705       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8706       \vfill%
8707       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8708     \end{fullwidth}%
8709   }
8710   \thispagestyle{empty}%
8711   \clearpage%
8712 }
8713 %%
8714 % Title block
8715 \bidi@AfterEndPreamble{%
8716 \renewcommand{\maketitle}{%
8717   \newpage%
8718   \global\@topnum\z@% prevent floats from being placed at the top of the page
8719   \begingroup%
8720     \setlength{\parindent}{0pt}%
8721     \setlength{\parskip}{4pt}%
8722     \let\@title\@empty%
8723     \let\@author\@empty%
8724     \let\@date\@empty%
8725     \gdef\@title{\LARGE\itshape\@title\par}%
8726     \gdef\@author{\Large\itshape\@author\par}%
8727     \gdef\@date{\Large\itshape\@date\par}%
8728     \@title%
8729     \@author%
8730     \@date%
8731   \endgroup%
8732   \thispagestyle{plain}% suppress the running head
8733 }%
8734 }
8735 %%
8736 % Title page (if the `titlepage' option was passed to the biditytetitle-handout

```



```

8737 % class.)
8738 \bidi@AfterEndPreamble{%
8739 \ifthenelse{\boolean{@biditytetitle@titlepage}}
8740   {\renewcommand{\maketitle}{\maketitlepage}}
8741   {}
8742 }
8743 %%
8744 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8745 % without headers and footers
8746 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8747   \hbox{}
8748   %\vspace*{\fill}
8749   %\begin{center}
8750   % This page intentionally contains only this sentence.
8751   %\end{center}
8752   %\vspace{\fill}
8753   \thispagestyle{empty}
8754   \newpage
8755   \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File `biditufte-handout.cls`

```

8756 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8757 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8758 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8759 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8760 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8761 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8762 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8763 \ProcessOptions\relax
8764 \LoadClass{article}
8765 \RequirePackage{bidituftefloat}
8766 \RequirePackage{bidituftesidenote}
8767 \RequirePackage{bidituftetoc}
8768 \RequirePackage{bidituftegeneralstructure}
8769 \RequirePackage{bidituftehyperref}
8770 \RequirePackage{bidituftetitle}
8771 \renewenvironment{abstract}
8772   {\begin{quotation}}
8773   {\end{quotation}}
8774 \AtBeginDocument{%
8775 \IfFileExists{biditufte-handout.cfg}
8776   {\input{biditufte-handout.cfg}
8777   \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8778   {}%
8779 }

```

60 File `biditufte-book.cls`

```

8780 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8781 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8782 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8783 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8784 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}

```



```

8785 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8786 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytettetitle}}
8787 \ProcessOptions\relax
8788 \LoadClass{book}
8789 \RequirePackage{biditytethefloat}
8790 \RequirePackage{biditytethesidenote}
8791 \RequirePackage{biditytettetoc}
8792 \RequirePackage{biditytethegeneralstructure}
8793 \RequirePackage{biditytethehyperref}
8794 \RequirePackage{biditytettetitle}
8795 %%
8796 % Set up any book-specific stuff now
8797 %%
8798 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8799 % to the opening page of Chapter 1. The running heads, when they appear,
8800 % contain only the (arabic) page number in the outside corner.
8801 %\newif\if@mainmatter \@mainmattertrue
8802 \renewcommand\frontmatter{%
8803   \cleardoublepage%
8804   \@mainmatterfalse%
8805   \pagenumbering{arabic}%
8806   %\pagestyle{plain}%
8807   \fancyhf{}%
8808   \ifthenelse{\boolean{@biditytethefloat@twoside}}%
8809     {\fancyhead[LE,RO]{\thepage}}%
8810     {\fancyhead[RE,RO]{\thepage}}%
8811 }
8812 %%
8813 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8814 % numbering---it continues where it left off in the front matter.
8815 \renewcommand\mainmatter{%
8816   \cleardoublepage%
8817   \@mainmattertrue%
8818   \fancyhf{}%
8819   \ifthenelse{\boolean{@biditytethefloat@twoside}}%
8820     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8821     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8822     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8823     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8824 }
8825 %%
8826 % The back matter contains appendices, indices, glossaries, endnotes,
8827 % bibliographies, list of contributors, illustration credits, etc.
8828 \renewcommand\backmatter{%
8829   \if@openright%
8830     \cleardoublepage%
8831   \else%
8832     \clearpage%
8833   \fi%
8834   \@mainmatterfalse%
8835 }
8836 %%
8837 % Only show the chapter titles in the table of contents
8838 \setcounter{tocdepth}{0}

```



```

8839 \AtBeginDocument{%
8840 \IfFileExists{biditufte-book.cfg}
8841   {\input{biditufte-book.cfg}
8842    \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8843   {}%
8844 }

```

61 File bidipoem.sty

```

8845 \NeedsTeXFormat{LaTeX2e}
8846 \ProvidesPackage{bidipoem}%
8847 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8848
8849 % Usage:
8850 %
8851 % \Setversedim #1#2 % define the layout (within a group):
8852 % #1 = length of both half-verses
8853 % #2 = separation distance = length of a connection, if present
8854 % Variant:
8855 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8856 % #1 = length of first (=right) half-verse
8857 % #2 = length of second (=left) half-verse
8858 % #3 = separation distance = length of a connection, if present
8859 %
8860 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8861 % #1 = text of first (=right) half-verse
8862 % #2 = text of second (=left) half-verse
8863 % Variant:
8864 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8865 % #1 = text of first (=right) half-verse
8866 % #2 = text of connection
8867 % #3 = text of second (=left) half-verse
8868 %
8869 % Alternative (if preferred):
8870 %
8871 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8872
8873
8874 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8875
8876 % define the layout, verses will be centered
8877
8878 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8879 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8880
8881 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8882 \bidipoem@hvind \textwidth
8883 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8884 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8885 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8886
8887 \def \bidipoem@set@verseI [#1]{% optional parameter
8888 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8889

```



```

8890 \newcommand*{\bidipoem@set@verse}[1]{% separation
8891 \advance \bidipoem@hvind -\bidipoem@hvlens \bidipoem@hvsep #1\relax
8892 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8893
8894 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8895 \ifdim Opt > \bidipoem@hvind %
8896 \bidipoem@spreadbox \bidipoem@hvlens {#1}\ \hfill % first block
8897 \else
8898 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlens {#1}\fi
8899 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8900 \bidipoem@spreadbox \bidipoem@hvlens {#3}% second block
8901 \par }
8902
8903 % macro for two half verses
8904 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8905 \ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}]}%
8906 \else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8907 \bidipoem@half@verses@next}
8908
8909 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8910 \traditionalconnverses {#1}-{#2}-{#3}}
8911
8912
8913 {\catcode\^^M=\active % these lines must end with %
8914 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
8915 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8916 {\catcode\^^M=\active % these lines must end with %
8917 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8918 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8919 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8920 \def\poemmarginskip{1em plus 1fil minus 1em}
8921 \def\poemextrabaseskip{0\baselineskip}
8922 \def\poemskip{\medskip}
8923 \newcommand{\bidipoem@openbox}{\leavevmode
8924 \hbox to.77778em{%
8925 \hfil\vrule
8926 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8927 \vrule\hfil}}
8928 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8929 \newdimen\versewidth
8930 \newtoks\bidipoem@p@ftn
8931 \def\poem@verse#1{%
8932 \ifdim\wd#1>\new@poem@width
8933 \xdef\new@poem@width{\the\wd#1}%
8934 \ifdim\new@poem@width>\poem@width
8935 \xdef\poem@width{\new@poem@width}%
8936 \global\let\poem@needrun\relax
8937 \fi
8938 \fi
8939 \hbox to\poem@width{\unhbox#1}%
8940 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8941 }
8942 \def\poem@linebegin{\vadjust}\hskip\@flushglue\hskip\poemmarginskip\relax}
8943 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust}

```



```

8944 \def\poem@lineversesep{%
8945 \nobreak
8946 \hskip\z@ plus 1filll%
8947 \penalty600%
8948 \hskip\poemcolsepskip
8949 \hskip\z@ plus -2filll%
8950 \vadjust{}%
8951 \nobreak
8952 \hskip\z@ plus 1filll%
8953 }
8954 \def\poem@lineparsebegin{%
8955 \halign\bgroup
8956 \global\setbox\verse@i=\hbox{%
8957 \let\@footnotetext\bidipoem@p@ftntext%
8958 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8959 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8960 \let\@xfootnotenext\bidipoem@p@xftntext%
8961 \let\@xfootnote\bidipoem@p@xfootnote%
8962 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8963 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8964 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8965 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8966 \ignorespaces##\unskip}&&
8967 \global\setbox\verse@ii=\hbox{%
8968 \let\@footnotetext\bidipoem@p@ftntext%
8969 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8970 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8971 \let\@xfootnotenext\bidipoem@p@xftntext%
8972 \let\@xfootnote\bidipoem@p@xfootnote%
8973 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8974 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8975 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8976 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8977 \ignorespaces##\unskip}
8978 \cr
8979 }
8980 \def\poem@lineparseend{%
8981 \crr\egroup
8982 \vskip-\baselineskip
8983 }
8984 \def\traditionalpoem@cr{%
8985 \cr\poem@line
8986 }
8987 \newbox\verse@i
8988 \newbox\verse@ii
8989 \newif\ifpoem@started
8990
8991 \def\poem@line{%
8992 \poem@lineparseend
8993 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8994 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8995 \ifpoem@started
8996 \ifdim\wd\verse@ii>\z@\else
8997 \nepagebreak[3]

```



```

8998 \fi
8999 \leavevmode
9000 \poem@linebegin
9001 \poem@verse\verse@i
9002 \ifdim\wd\verse@ii>\z@
9003 \poem@lineversesep
9004 \poem@verse\verse@ii
9005 \fi
9006 \poem@lineend
9007 % \nopagebreak
9008 \par
9009 \vskip\poemextrabaselineskip
9010 \fi
9011 \poem@lineparsebegin
9012 }
9013 \def\@traditionalpoem{%
9014 \stepcounter{poem@no}
9015 \ifnum\max@poem@no<\number\c@poem@no%
9016 \xdef\poem@width{\z@}%
9017 \else
9018 \xdef\poem@width{\poem@prop{poem@width}}%
9019 \fi
9020 \xdef\new@poem@width{\z@}%
9021 \global\versewidth=\poem@width
9022 \poemskip\par
9023 \begingroup
9024 \tabskip=\z@
9025 \parskip=\z@
9026 \parindent=\z@
9027 \parfillskip=\z@
9028 \rightskip=\z@
9029 \leftskip=\z@
9030 \widowpenalty=10000% No break between verses of the same line.
9031 \clubpenalty=10000% Same as above. Not really needed.
9032 \def\newblock{\hfil\poemblocksep\hfil\null}%
9033 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9034 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9035 \global\poem@startedfalse
9036 \csname poem@obeylines\endcsname
9037 \let\poem@obeylines\relax
9038 \poem@lineparsebegin
9039 }
9040 \def\@endtraditionalpoem{%
9041 \cr
9042 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9043 \noalign{%
9044 \skip0=\poemextrabaselineskip
9045 \vskip-\skip0
9046 \vskip-\baselineskip
9047 }%
9048 \fi\fi
9049 \poem@lineparseend
9050 \endgroup
9051 \par

```




```

9052 \vskip\baselineskip
9053 \poemskip
9054 \ifdim\new@poem@width<\poem@width
9055 \global\let\poem@needrun\relax
9056 \fi
9057     \poem@write@aux{poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9058 \ifx\AtEndDocument\undefined\poem@finish\fi
9059 \@endparenv
9060 }
9061
9062
9063 \long\def\bidipoem@p@ftntext#1{%
9064     \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
9065     \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9066 \long\def\bidipoem@p@LTRftntext#1{%
9067     \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
9068     \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9069 \long\def\bidipoem@p@RTLftntext#1{%
9070     \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
9071     \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9072
9073 \long\def\bidipoem@p@xftntext[#1]#2{%
9074     \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9075
9076 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9077     \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9078
9079 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9080     \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9081
9082 \def\bidipoem@p@xfootnote[#1]{%
9083     \begingroup
9084         \csname c@\@mpfn\endcsname #1\relax
9085         \unrestored@protected@xdef\@thefnmark{\thempfn}%
9086     \endgroup
9087     \@footnotemark\bidipoem@p@xftntext[#1]}
9088
9089 \def\bidipoem@p@xLTRfootnote[#1]{%
9090     \begingroup
9091         \csname c@\@mpfn\endcsname #1\relax
9092         \unrestored@protected@xdef\@thefnmark{\thempfn}%
9093     \endgroup
9094     \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9095
9096 \def\bidipoem@p@xRTLfootnote[#1]{%
9097     \begingroup
9098         \csname c@\@mpfn\endcsname #1\relax
9099         \unrestored@protected@xdef\@thefnmark{\thempfn}%
9100     \endgroup
9101     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9102
9103
9104
9105 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}

```



```

9106 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9107 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9108 \def\poem@finish{%
9109 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9110 \ifx\poem@needrun\relax
9111 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
9112 \global\let\poem@needrun\undefined
9113 \fi
9114 }
9115 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9116 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9117 \ifx\max@poem@no\undefined
9118     \def\max@poem@no{0}%
9119 \fi
9120 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9121 \newcommand{\poem@write@aux}[2]{%
9122     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9123     \@x
9124 }
9125 \def\@modernpoem{%
9126 \par
9127 \begingroup
9128 \parskip=\z@
9129 \parindent=\z@
9130 \def\[{ \@settab\@tabplus\ignorespaces}%
9131 \def\]{ \@tabminus\ignorespaces}%
9132 \def\newblock{\poemblocksep}%
9133 \let\newpoem@tabcr\@tabcr
9134 \def\modernpoem@par{% Redefine \par for possible \obeylines
9135     \ifpoem@started\else
9136         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9137             \@stopfield
9138             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9139             \@contfield
9140         \fi
9141     \fi
9142     \ifpoem@started\newpoem@tabcr\fi}%
9143 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9144 \global\poem@startedfalse
9145 \csname poem@obeylines\endcsname
9146 \let\poem@obeylines\relax
9147 \begin{tabbing}%
9148 }
9149 \def\@endmodernpoem{%
9150 \global\poem@startedfalse
9151 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9152     \@stopfield
9153     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9154     \@contfield
9155 \fi
9156 \ifpoem@started\else\let\@stopline\@stopfield\fi
9157 \end{tabbing}%
9158 \endgroup
9159 \par

```



```

9160 \if@noparlist \else
9161   \ifdim\lastskip >\z@
9162     \@tempskipa\lastskip \vskip -\lastskip
9163     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9164     \vskip\@tempskipa
9165   \fi
9166   \@endparenv
9167 \fi
9168 }
9169 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9170 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9171 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9172 \gdef\@startfield{%
9173 \global\setbox\@curfield\hbox\bgroup%
9174 \let\@footnotetext\bidipoem@p@ftntext%
9175 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9176 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9177 \let\@xfootnotenext\bidipoem@p@xftntext%
9178 \let\@xfootnote\bidipoem@p@xfootnote%
9179 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9180 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9181 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9182 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9183 \color@begingroup}
9184 \gdef\@stopfield{%
9185 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9186 \gdef\@contfield{%
9187 \global\setbox\@curfield\hbox\bgroup%
9188 \let\@footnotetext\bidipoem@p@ftntext%
9189 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9190 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9191 \let\@xfootnotenext\bidipoem@p@xftntext%
9192 \let\@xfootnote\bidipoem@p@xfootnote%
9193 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9194 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9195 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9196 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9197 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9198 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9199 \renewenvironment{theindex}{%
9200   \if@twocolumn
9201     \@restonecolfalse
9202   \else
9203     \@restonecoltrue
9204   \fi
9205   \columnseprule \z@
9206   \columnsep 35\p@
9207   \twocolumn[\@makeschapterhead{\indexname}]%
9208   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9209   \thispagestyle{plain}\parindent\z@
9210   \parskip\z@ \@plus .3\p@\relax

```



```

9211 \let\item\@idxitem
9212 }{%
9213 \if@restonecol\onecolumn\else\clearpage\fi}
9214 \renewcommand* \head@style{%
9215   \interlinepenalty \@M
9216   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9217   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9218 \renewcommand*\@regtocoline[3]{%
9219   \ifnum #1>\c@tocdepth
9220   \else
9221     \vskip\z@\@plus.2\p@
9222     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
9223     \if@RTL\rightskip\else\leftskip\fi\unitindent
9224     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9225     \parfillskip\z@
9226     \@tempdima\unitindent
9227     \parindent\z@
9228     \leavevmode
9229     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9230     \hskip 1em \nobreak{\slshape #3}\par
9231     }%
9232   \fi}
9233 \if@oldtoc
9234 \renewcommand*\l@part[2]{%
9235   \ifnum \c@tocdepth >-2\relax
9236     \addpenalty{-\@highpenalty}%
9237     \addvspace{2.25em \@plus\p@}%
9238     \begingroup
9239       \setlength\@tempdima{3em}%
9240       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9241       \parfillskip -\@pnumwidth
9242       {\leavevmode
9243         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9244         \nobreak
9245         \global\@nobreaktrue
9246         \everypar{\global\@nobreakfalse\everypar{}}%
9247       \endgroup
9248   \fi}
9249 \else
9250   \renewcommand*\l@part{%
9251     \ifnum \c@tocdepth >-2\relax
9252       \addpenalty{-\@highpenalty}%
9253       \addvspace{2.25em \@plus \p@}%
9254       \@regtocoline{0}%
9255     \fi}
9256 \fi
9257 \if@oldtoc
9258 \renewcommand*\l@chapter[2]{%
9259   \addpenalty{-\@highpenalty}%
9260   \vskip 1.0em \@plus\p@
9261   \setlength\@tempdima{1.5em}%
9262   \begingroup
9263   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9264   \parfillskip -\@pnumwidth

```



```

9265 \leavevmode \bfseries
9266 \advance\if@RTL\rightskip\else\leftskip\fi@tempdima
9267 \hskip -\if@RTL\rightskip\else\leftskip\fi
9268 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9269 \penalty\@highpenalty
9270 \endgroup}
9271 \else
9272 \renewcommand*\l@chapter{\@regtocline{0}}
9273 \fi
9274 \renewenvironment{abstract}{%
9275 \titlepage
9276 \null\vfil
9277 \section*{\SectFont \abstractname}
9278 \noindent\ignorespaces}
9279 {\par\vfil\null\endtitlepage}
9280 \renewenvironment{thebibliography}[1]
9281 {\chapter*{\bibname}%
9282 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9283 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9284 \bidi@@thebibliography@font@hook%
9285 \list{\@biblabel{\@arabic\c@enumiv}}%
9286 {\settowidth\labelwidth{\@biblabel{#1}}%
9287 \leftmargin\labelwidth
9288 \advance\leftmargin\labelsep
9289 \@openbib@code
9290 \usecounter{enumiv}%
9291 \let\p@enumiv\@empty
9292 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9293 \sloppy\clubpenalty4000\widowpenalty4000%
9294 \sfcode\.\@m}
9295 {\def\@noitemerr
9296 {\@latex@warning{Empty `thebibliography' environment}}}%
9297 \endlist}
9298 \renewcommand*\left@footnoterule{%
9299 \kern-3\p@
9300 \kern.5\baselineskip
9301 \hrule\@width\unitindent
9302 \kern.4\baselineskip
9303 }
9304 \renewcommand*\right@footnoterule{%
9305 \kern-3\p@
9306 \kern.5\baselineskip
9307 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9308 \kern.4\baselineskip}
9309 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9310 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9311 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9312 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9313 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9314 \renewcommand*\theequation{%
9315 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9316 \renewcommand*\thefigure{%
9317 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9318 \renewcommand*\thetable{%

```



```

9319 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9320 \renewcommand*\maketitle{%
9321 \begin{titlepage}%
9322 \let\footnotesize\small
9323 \let\right@footnoterule\relax
9324 \let\left@footnoterule\relax
9325 \let\textwidth@footnoterule\relax
9326 \let \footnote \thanks
9327 \long\def\@makefntext##1{\parindent\z@
9328 \def\labelitemi{\textendash}\@crevlabeltrue
9329 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9330 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9331 \if@compatibility\setcounter{page}{0}\fi
9332 \null\vfil
9333 \vskip 60\p@
9334 \begin{center}%
9335 \TitleFont
9336 {\LARGE \def\{\{\penalty -\@M}
9337 \if@allcaps
9338 \expandafter\uc@nothanks\@title\thanks\relax
9339 \else
9340 \@title
9341 \fi\par}%
9342 \vskip 3em%
9343 {\large
9344 \lineskip .75em \parindent\z@
9345 \begin{tabular}[t]{c}%
9346 \if@allcaps
9347 \expandafter\uc@authornothanks\@author\and\relax
9348 \else
9349 \@author
9350 \fi
9351 \end{tabular}\par}%
9352 \vskip 1.5em%
9353 {\large
9354 \if@allcaps
9355 \uppercase\expandafter{\@date}%
9356 \else
9357 \@date
9358 \fi\par}%
9359 \end{center}\par
9360 \@thanks
9361 \vfil\null
9362 \end{titlepage}%
9363 \setcounter{footnote}{0}%
9364 \global\let\thanks\relax
9365 \global\let\maketitle\relax
9366 \global\let\@thanks\@empty
9367 \global\let\@author\@empty
9368 \global\let\@title\@empty
9369 \global\let\@date\@empty
9370 \global\let\title\relax
9371 \global\let\author\relax
9372 \global\let\date\relax

```



```

9373 \global\let\and\relax
9374 }

```

63 File boek-xetex-bidi.def

```

9375 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX
9376 \renewenvironment{theindex}{%
9377 \if@twocolumn
9378 \@restonecolfalse
9379 \else
9380 \@restonecoltrue
9381 \fi
9382 \columnseprule \z@
9383 \columnsep 35\p@
9384 \twocolumn[\@makeschapterhead{\indexname}]%
9385 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9386 \thispagestyle{plain}\parindent\z@
9387 \parskip\z@ \@plus .3\p@\relax
9388 \let\item\@idxitem
9389 }{%
9390 \if@restonecol\onecolumn\else\clearpage\fi}
9391 \renewcommand*{head@style}{%
9392 \interlinepenalty \@M
9393 \hyphenpenalty=\@M \exhyphenpenalty=\@M
9394 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9395 \renewcommand*{regtocline}[3]{%
9396 \ifnum #1>\c@tocdepth
9397 \else
9398 \vskip\z@\@plus.2\p@
9399 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9400 \if@RTL\rightskip\else\leftskip\fi\unitindent
9401 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9402 \parfillskip\z@
9403 \@tempdima\unitindent
9404 \parindent\z@
9405 \leavevmode
9406 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9407 \hskip 1em \nobreak{\slshape #3}\par
9408 }%
9409 \fi}
9410 \if@oldtoc
9411 \renewcommand*\l@part[2]{%
9412 \ifnum \c@tocdepth >-2\relax
9413 \addpenalty{-\@highpenalty}%
9414 \addvspace{2.25em \@plus\p@}%
9415 \begingroup
9416 \setlength{\tempdima}{3em}%
9417 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9418 \parfillskip -\@pnumwidth
9419 {\leavevmode
9420 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9421 \nobreak
9422 \global\@nobreaktrue
9423 \everypar{\global\@nobreakfalse\everypar{}}%

```



```

9424 \endgroup
9425 \fi}
9426 \else
9427 \renewcommand*\l@part{%
9428 \ifnum \c@tocdepth >-2\relax
9429 \addpenalty{-\@highpenalty}%
9430 \addvspace{2.25em \@plus \p@}%
9431 \@regtocline{0}%
9432 \fi}
9433 \fi
9434 \if@oldtoc
9435 \renewcommand*\l@chapter[2]{%
9436 \addpenalty{-\@highpenalty}%
9437 \vskip 1.0em \@plus\p@
9438 \setlength\@tempdima{1.5em}%
9439 \begingroup
9440 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9441 \parfillskip -\@pnumwidth
9442 \leavevmode \bfseries
9443 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9444 \hskip -\if@RTL\rightskip\else\leftskip\fi
9445 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9446 \penalty\@highpenalty
9447 \endgroup}
9448 \else
9449 \renewcommand*\l@chapter{\@regtocline{0}}
9450 \fi
9451 \renewcommand*\left@footnoterule{%
9452 \kern-3\p@
9453 \kern.5\baselineskip
9454 \hrule\@width\unitindent
9455 \kern.4\baselineskip
9456 }
9457 \renewcommand*\right@footnoterule{%
9458 \kern-3\p@
9459 \kern.5\baselineskip
9460 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9461 \kern.4\baselineskip}
9462 \renewenvironment{abstract}{%
9463 \titlepage
9464 \null\vfil
9465 \section*{\SectFont \abstractname}
9466 \noindent\ignorespaces}
9467 {\par\vfil\null\endtitlepage}
9468 \renewenvironment{thebibliography}[1]
9469 {\chapter*{\bibname}%
9470 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9471 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9472 \bidi@thebibliography@font@hook%
9473 \list{\@biblabel{\@arabic\c@enumiv}}%
9474 {\settowidth\labelwidth{\@biblabel{#1}}%
9475 \leftmargin\labelwidth
9476 \advance\leftmargin\labelsep
9477 \@openbib@code

```




```

9478         \usecounter{enumiv}%
9479         \let\p@enumiv\@empty
9480         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9481     \sloppy\clubpenalty4000\widowpenalty4000%
9482     \sfcode`.\@m}
9483     {\def\@noitemerr
9484       {\@latex@warning{Empty `thebibliography' environment}}}%
9485     \endlist}
9486 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9487 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9488 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9489 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9490 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9491 \renewcommand*\theequation{%
9492   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9493 \renewcommand*\thefigure{%
9494   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9495 \renewcommand*\thetable{%
9496   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9497 \renewcommand*\maketitle{%
9498   \begin{titlepage}%
9499     \let\footnotesize\small
9500     \let\right@footnoterule\relax
9501     \let\left@footnoterule\relax
9502     \let\textwidth@footnoterule\relax
9503     \let \footnote \thanks
9504     \long\def\@makefnmark##1{\parindent\z@
9505       \def\labelitemi{\textendash}\@revlabeltrue
9506       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9507     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9508     \if@compatibility\setcounter{page}{0}\fi
9509     \null\vfil
9510     \vskip 60\p@
9511     \begin{center}%
9512       \TitleFont
9513       {\LARGE \def\{\penalty -\@M}
9514         \if@allcaps
9515           \expandafter\uc@nothanks\@title\thanks\relax
9516         \else
9517           \@title
9518         \fi\par}%
9519       \vskip 3em%
9520       {\large
9521         \lineskip .75em \parindent\z@
9522         \begin{tabular}[t]{c}%
9523           \if@allcaps
9524             \expandafter\uc@authornothanks\@author\and\relax
9525           \else
9526             \@author
9527           \fi
9528         \end{tabular}\par}%
9529       \vskip 1.5em%
9530       {\large
9531         \if@allcaps

```



```

9532         \uppercase\expandafter{\@date}%
9533         \else
9534             \@date
9535         \fi\par}%
9536     \end{center}\par
9537     \@thanks
9538     \vfil\null
9539 \end{titlepage}%
9540 \setcounter{footnote}{0}%
9541 \global\let\thanks\relax
9542 \global\let\maketitle\relax
9543 \global\let\@thanks\@empty
9544 \global\let\@author\@empty
9545 \global\let\@title\@empty
9546 \global\let\@date\@empty
9547 \global\let\title\relax
9548 \global\let\author\relax
9549 \global\let\date\relax
9550 \global\let\and\relax
9551 }

```

64 File `bookest-xetex-bidi.def`

```

9552 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9553 \def\@makechapterhead#1{%
9554     \vspace*{20\p@}
9555     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9556     \ifnum \c@secnumdepth >\m@ne
9557         \if@mainmatter
9558             {\colorA\huge\scshape \@chapapp\space \thechapter}
9559             \par\nobreak
9560             \vskip 10\p@
9561         \fi
9562         \fi
9563         \interlinepenalty\@M
9564     {\colorB\hrule}
9565     \vskip 15\p@
9566     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9567         {\colorA\Huge \bfseries #1}\par\nobreak
9568     \if@RTL\end{flushleft}\else\end{flushright}\fi
9569     \vskip 5\p@
9570     {\colorB\hrule}
9571     \vskip 30\p@
9572     }}
9573 \def\@makeschapterhead#1{%
9574     \vspace*{20\p@}
9575     {\parindent \z@ \raggedright \normalfont
9576     {\colorB\hrule}
9577     \vskip 15\p@
9578     \begin{center}
9579         {\colorA\Huge \bfseries #1}\par\nobreak
9580     \end{center}
9581     \vskip 5\p@
9582     {\colorB\hrule}

```



```

9583 \vskip 30\p@
9584 }}

```

65 File book-xetex-bidi.def

```

9585 \ProvidesFile{book-xetex-bidi.def}[2025/01/03 v1.1 bidi adaptations for standard book class
9586 \renewenvironment{theindex}
9587     {\if@twocolumn
9588         \@restonecolfalse
9589         \else
9590         \@restonecoltrue
9591         \fi
9592         \columnseprule \z@
9593         \columnsep 35\p@
9594         \twocolumn[\@makeschapterhead{\indexname}]%
9595         \@mkboth{\MakeUppercase\indexname}%
9596                 {\MakeUppercase\indexname}%
9597         \thispagestyle{plain}\parindent\z@
9598         \parskip\z@ \@plus .3\p@\relax
9599         \let\item\@idxitem}
9600     {\if@restonecol\onecolumn\else\clearpage\fi}
9601 \IfClassLoadedF{bookest}{%
9602     \if@titlepage
9603     \renewcommand\maketitle{\begin{titlepage}%
9604     \let\footnotesize\small
9605     \let\right@footnoterule\relax
9606     \let\left@footnoterule\relax
9607     \let\textwidth@footnoterule\relax
9608     \let \footnote \thanks
9609     \let \LTRfootnote \LTRthanks
9610     \let \RTLfootnote \RTLthanks
9611     \null\vfil
9612     \vskip 60\p@
9613     \begin{center}%
9614         {\LARGE \@title \par}%
9615         \vskip 3em%
9616         {\large
9617             \lineskip .75em%
9618             \begin{tabular}[t]{c}%
9619                 \@author
9620             \end{tabular}\par}%
9621         \vskip 1.5em%
9622         {\large \@date \par}%           % Set date in \large size.
9623     \end{center}\par
9624     \@thanks
9625     \vfil\null
9626     \end{titlepage}%
9627     \setcounter{footnote}{0}%
9628     \global\let\thanks\relax
9629     \global\let\LTRthanks\relax
9630     \global\let\RTLthanks\relax
9631     \global\let\maketitle\relax
9632     \global\let\@thanks\@empty
9633     \global\let\@author\@empty

```



```

9634 \global\let\@date\@empty
9635 \global\let\@title\@empty
9636 \global\let\title\relax
9637 \global\let\author\relax
9638 \global\let\date\relax
9639 \global\let\and\relax
9640 }
9641 \else
9642 \renewcommand\maketitle{\par
9643 \begin{group}
9644 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9645 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9646 \long\def\@makefntext##1{\parindent 1em\noindent
9647 \hb@xt@1.8em{%
9648 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9649 \if@twocolumn
9650 \ifnum \col@number=\@ne
9651 \maketitle
9652 \else
9653 \twocolumn[\maketitle]%
9654 \fi
9655 \else
9656 \newpage
9657 \global\@topnum\z@ % Prevents figures from going at top of page.
9658 \maketitle
9659 \fi
9660 \thispagestyle{plain}\@thanks
9661 \endgroup
9662 \setcounter{footnote}{0}%
9663 \global\let\thanks\relax
9664 \global\let\LTRthanks\relax
9665 \global\let\RTLthanks\relax
9666 \global\let\maketitle\relax
9667 \global\let\@maketitle\relax
9668 \global\let\@thanks\@empty
9669 \global\let\@author\@empty
9670 \global\let\@date\@empty
9671 \global\let\@title\@empty
9672 \global\let\title\relax
9673 \global\let\author\relax
9674 \global\let\date\relax
9675 \global\let\and\relax
9676 }
9677 \def\@maketitle{%
9678 \newpage
9679 \null
9680 \vskip 2em%
9681 \begin{center}%
9682 \let \footnote \thanks
9683 \let \LTRfootnote \LTRthanks
9684 \let \RTLfootnote \RTLthanks
9685 {\LARGE \@title \par}%
9686 \vskip 1.5em%
9687 {\large

```



```

9688     \lineskip .5em%
9689     \begin{tabular}[t]{c}%
9690         \@author
9691     \end{tabular}\par}%
9692     \vskip 1em%
9693     {\large \@date}%
9694 \end{center}%
9695 \par
9696 \vskip 1.5em}
9697 \fi}
9698 \renewcommand*\l@part[2]{%
9699     \ifnum \c@tocdepth >-2\relax
9700         \addpenalty{-\@highpenalty}%
9701         \addvspace{2.25em \@plus\p@}%
9702         \setlength\@tempdima{3em}%
9703         \begingroup
9704             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9705             \parfillskip -\@pnumwidth
9706             {\leavevmode
9707                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9708             \nobreak
9709             \global\@nobreaktrue
9710             \everypar{\global\@nobreakfalse\everypar{}}%
9711         \endgroup
9712     \fi}
9713 \renewcommand*\l@chapter[2]{%
9714     \ifnum \c@tocdepth >\m@ne
9715         \addpenalty{-\@highpenalty}%
9716         \vskip 1.0em \@plus\p@
9717         \setlength\@tempdima{1.5em}%
9718         \begingroup
9719             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9720             \parfillskip -\@pnumwidth
9721             \leavevmode \bfseries
9722             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9723             \hskip -\if@RTL\rightskip\else\leftskip\fi
9724             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9725             \penalty\@highpenalty
9726         \endgroup
9727     \fi}
9728 \renewcommand\left@footnoterule{%
9729     \kern-3\p@
9730     \hrule\@width.4\columnwidth
9731     \kern2.6\p@}
9732 \renewcommand\right@footnoterule{%
9733     \kern-3\p@
9734     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9735     \kern2.6\p@}
9736 \renewcommand\theequation
9737     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9738 \renewcommand \thefigure
9739     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9740 \renewcommand \thetable
9741     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}

```



```

9742 \renewcommand \thechapter {\@arabic\c@chapter}
9743 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9744 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9745 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
9746 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9747 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9748 \def \@makechapterhead#1{%
9749   \vspace*{50\p@}%
9750   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9751     \ifnum \c@secnumdepth >\m@ne
9752       \if@mainmatter
9753         \huge\bfseries \@chapapp\space \thechapter
9754         \par\nobreak
9755         \vskip 20\p@
9756       \fi
9757     \fi
9758     \interlinepenalty\@M
9759     \Huge \bfseries #1\par\nobreak
9760     \vskip 40\p@
9761   }}
9762 \def \@makeschapterhead#1{%
9763   \vspace*{50\p@}%
9764   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9765     \normalfont
9766     \interlinepenalty\@M
9767     \Huge \bfseries #1\par\nobreak
9768     \vskip 40\p@
9769   }}
9770 \renewcommand \backmatter{%
9771   \if@openright
9772     \cleardoublepage
9773   \else
9774     \clearpage
9775   \fi
9776   \@mainmatterfalse}
9777 \renewenvironment{thebibliography}[1]
9778   {\chapter*{\bibname}%
9779    \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9780    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9781    \bidi@thebibliography@font@hook%
9782    \list{\@biblabel{\@arabic\c@enumiv}}%
9783      {\settowidth\labelwidth{\@biblabel{#1}}%
9784       \leftmargin\labelwidth
9785       \advance\leftmargin\labelsep
9786       \@openbib@code
9787       \usecounter{enumiv}%
9788       \let\p@enumiv\@empty
9789       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9790    \sloppy
9791    \clubpenalty4000
9792    \@clubpenalty \clubpenalty
9793    \widowpenalty4000%
9794    \sfcode`..\@m}
9795 {\def\@noitemerr

```



```

9796      {\@latex@warning{Empty `thebibliography' environment}}%
9797      \endlist}

```

66 File breqn-xetex-bidi.def

```

9798 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9799 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9800 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9801 \if@noskipsec \leavevmode \fi
9802 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9803 \if\eq@group\else\eq@prelim\fi
9804 \setkeys{breqn}{#1}%
9805 \the\eqstyle
9806 \eq@setnumber
9807 \begingroup
9808 \eq@setup@a
9809 \eq@startup
9810 }
9811 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9812 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9813 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9814 \global\let\GRP@label\@empty
9815 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9816 \global\grp@linewidth\z@\global\grp@wdNum\z@
9817 \global\let\grp@eqs@numbered\@False
9818 \global\let\grp@aligned\@True
9819 \global\let\grp@shiftnumber\@False
9820 \eq@prelim
9821 \setkeys{breqn}{#1}%
9822 \if\grp@hasNumber \grp@setnumber \fi
9823 }
9824 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9825 \let\display@setup\dseries@display@setup
9826 % Question: should this be the default for dseries???
9827 \global\eq@wdCond\z@
9828 \@dmath[layout={M},#1]%
9829 \mathsurround\z@\@math \penalty\@Mi
9830 \let\endmath\ends@math
9831 \def\premath{%
9832 \ifdim\lastskip<.3em \unskip
9833 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9834 }%
9835 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9836 \ignorespaces
9837 }
9838 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9839 \renewenvironment{dsuspend}{%
9840 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9841 \parshape 1 \displayindent \displaywidth\relax
9842 \hsize=\columnwidth \noindent\ignorespaces
9843 }{%
9844 \par\egroup
9845 \global\setbox\GRP@box\vbox{%
9846 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%

```



```

9847   \unvbox\GRP@box
9848 }%
9849 \global\GRP@queue\@xp{\the\GRP@queue
9850   \@elt{\let\eq@isIntertext\@True}%
9851 }%
9852 }

```

67 File cals-xetex-bidi.def

```

9853 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
9854 \renewcommand\cals@setup@alignment[1]{%
9855 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9856 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9857 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9858 }
9859 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9860 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9861 \if@RTLtab\cals@activate@rtl\fi
9862 \let\cals@thead@tokens=\relax
9863 \let\cals@tfoot@tokens=\relax
9864 \let\cals@tbody@tokens=\relax
9865 \cals@tfoot@height=0pt \relax
9866 \let\cals@last@context=n%
9867 \let\cals@current@context=b%
9868 \parindent=0pt \relax%
9869 \cals@setup@alignment{#1}%
9870 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9871 %% Alignment inside is independent on center/flushright outside
9872 \parfillskip=0pt plus1fil\relax
9873 \let\cals@borderL=\relax
9874 \let\cals@borderR=\relax
9875 \let\cals@borderT=\relax
9876 \let\cals@borderB=\relax
9877 \setbox\cals@backup@row=\box\voidb@x\relax
9878 \cals@AtBeginTable
9879 }{% End of the table
9880 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9881 \renewcommand\alignL{%
9882 \if@RTLtab
9883   \cals@vfillAdd\cals@paddingL
9884 \else
9885   \cals@vfillDrop\cals@paddingL
9886 \fi
9887 \cals@vfillDrop\cals@paddingR}
9888 \renewcommand\alignR{%
9889 \if@RTLtab
9890   \cals@vfillDrop\cals@paddingL
9891 \else
9892   \cals@vfillAdd\cals@paddingL
9893 \fi
9894 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def




```

9895 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9896 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9897 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9898 \renewcommand*\caption@par{%
9899 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9900 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9901 \def\CT@setup{%
9902 \@tempdima\col@sep
9903 \@tempdimc\col@sep
9904 \def\CT@color{%
9905 \global\let\CT@do@color\CT@@do@color
9906 \bidicolor}}
9907 \def\@classz{\@classx
9908 \@tempcnta \count@
9909 \prepnext@tok
9910 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9911 \@addtopreamble{\if@RTLtab\beginL\fi%
9912 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9913 \ifcase \@chnum
9914 \hskip\stretch{.5}\kern\z@
9915 \d@llarbegin
9916 \insert@column
9917 \d@llarend\hskip\stretch{.5}\or
9918 \d@llarbegin \insert@column \d@llarend \hfill \or
9919 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9920 $\vcenter
9921 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9922 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9923 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9924 \fi
9925 \if@RTLtab\endR\fi\egroup\egroup
9926 \begingroup
9927 \CT@setup
9928 \CT@column@color
9929 \CT@row@color
9930 \CT@cell@color
9931 \CT@do@color
9932 \endgroup
9933 \@tempdima\ht\z@
9934 \advance\@tempdima\minrowclearance
9935 \vrule\@height\@tempdima\@width\z@
9936 \unhbox\z@\if@RTLtab\endL\fi}%
9937 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

9938 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9939 \long\def\color@b@x#1#2#3{%

```



```

9940 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9941 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9942 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9943 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9944 {#1#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9945 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9946 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9947 \DeclareRobustCommand\color{%
9948 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor]}
9949 \def\@declaredcolor#1{%
9950 \@ifundefined{\string\color @#1}%
9951 {\c@lor@error{`#1'}}%
9952 {\expandafter\let\expandafter\current@color
9953 \csname\string\color @#1\endcsname
9954 \set@color}%
9955 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9956 \def\@undeclaredcolor[#1]#2{%
9957 \@ifundefined{color@#1}%
9958 {\c@lor@error{model `#1'}}%
9959 {\csname color@#1\endcsname\current@color{#2}%
9960 \set@color}%
9961 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9962 \DeclareRobustCommand\bidicolor{%
9963 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
9964 \def\@bidiundeclaredcolor[#1]#2{%
9965 \@ifundefined{color@#1}%
9966 {\c@lor@error{model `#1'}}%
9967 {\csname color@#1\endcsname\current@color{#2}%
9968 \set@color}%
9969 \ignorespaces}
9970 \def\@bidideclaredcolor#1{%
9971 \@ifundefined{\string\color @#1}%
9972 {\c@lor@error{`#1'}}%
9973 {\expandafter\let\expandafter\current@color
9974 \csname\string\color @#1\endcsname
9975 \set@color}%
9976 \ignorespaces}
9977 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9978 \def\color@fbbox#1#2#3{%
9979 \color@b@x{\fbboxsep\z@\bidicolor#1{#2}\fbbox}{\bidicolor#1{#3}}}
9980 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

72 File combine-xetex-bidi.def

```

9981 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9982 \renewcommand{\c@ll@chapsecii}[2]{%
9983 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9984 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9985 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9986 }
9987 \renewcommand{\c@ll@chapseci}{%
9988 \setlength\@tempdima{0em}%
9989 \begingroup
9990 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

9991 \parfillskip -\@pnumwidth
9992 \leavevmode
9993 }
9994 \renewenvironment{tocindent}[1]{%
9995 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

9996 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeTeX]
9997 \IfClassLoadedT{memoir}{\endinput}
9998 \RequirePackage{graphicx}
9999 \renewcommand*\CROP@ulc{%
10000 \if@RTLmain%
10001 \begin{picture}(0,0)
10002 \unitlength\p@\thinlines
10003 \put(-40,0){\circle{10}}
10004 \put(-30,-5){\line(0,1){10}}
10005 \put(-35,0){\line(1,0){30}}
10006 \put(-10,30){\circle{10}}
10007 \put(-5,30){\line(1,0){10}}
10008 \put(0,35){\line(0,-1){30}}
10009 \end{picture}%
10010 \else%
10011 \begin{picture}(0,0)
10012 \unitlength\p@\thinlines
10013 \put(-30,0){\circle{10}}
10014 \put(-30,-5){\line(0,1){10}}
10015 \put(-35,0){\line(1,0){30}}
10016 \put(0,30){\circle{10}}
10017 \put(-5,30){\line(1,0){10}}
10018 \put(0,35){\line(0,-1){30}}
10019 \end{picture}%
10020 \fi%
10021 }
10022 \renewcommand*\CROP@urc{%
10023 \if@RTLmain%
10024 \begin{picture}(0,0)
10025 \unitlength\p@\thinlines
10026 \put(20,0){\circle{10}}
10027 \put(30,-5){\line(0,1){10}}
10028 \put(35,0){\line(-1,0){30}}
10029 \put(-10,30){\circle{10}}
10030 \put(-5,30){\line(1,0){10}}
10031 \put(0,35){\line(0,-1){30}}
10032 \end{picture}%
10033 \else%
10034 \begin{picture}(0,0)
10035 \unitlength\p@\thinlines
10036 \put(30,0){\circle{10}}
10037 \put(30,-5){\line(0,1){10}}
10038 \put(35,0){\line(-1,0){30}}
10039 \put(0,30){\circle{10}}
10040 \put(-5,30){\line(1,0){10}}
10041 \put(0,35){\line(0,-1){30}}

```



```

10042 \end{picture}%
10043 \fi%
10044 }
10045 \renewcommand*\CROP@llc{%
10046 \if@RTLmain%
10047 \begin{picture}(0,0)
10048 \unitlength\p@\thinlines
10049 \put(-40,0){\circle{10}}
10050 \put(-30,-5){\line(0,1){10}}
10051 \put(-35,0){\line(1,0){30}}
10052 \put(-10,-30){\circle{10}}
10053 \put(-5,-30){\line(1,0){10}}
10054 \put(0,-35){\line(0,1){30}}
10055 \end{picture}%
10056 \else%
10057 \begin{picture}(0,0)
10058 \unitlength\p@\thinlines
10059 \put(-30,0){\circle{10}}
10060 \put(-30,-5){\line(0,1){10}}
10061 \put(-35,0){\line(1,0){30}}
10062 \put(0,-30){\circle{10}}
10063 \put(-5,-30){\line(1,0){10}}
10064 \put(0,-35){\line(0,1){30}}
10065 \end{picture}%
10066 \fi%
10067 }
10068 \renewcommand*\CROP@lrc{%
10069 \if@RTLmain%
10070 \begin{picture}(0,0)
10071 \unitlength\p@\thinlines
10072 \put(20,0){\circle{10}}
10073 \put(30,-5){\line(0,1){10}}
10074 \put(35,0){\line(-1,0){30}}
10075 \put(-10,-30){\circle{10}}
10076 \put(-5,-30){\line(1,0){10}}
10077 \put(0,-35){\line(0,1){30}}
10078 \end{picture}%
10079 \else%
10080 \begin{picture}(0,0)
10081 \unitlength\p@\thinlines
10082 \put(30,0){\circle{10}}
10083 \put(30,-5){\line(0,1){10}}
10084 \put(35,0){\line(-1,0){30}}
10085 \put(0,-30){\circle{10}}
10086 \put(-5,-30){\line(1,0){10}}
10087 \put(0,-35){\line(0,1){30}}
10088 \end{picture}%
10089 \fi%
10090 }
10091 \@ifpackagewith{crop}{cam}{%
10092 \CROP@except{cam}%
10093 }{}

```



74 File cutwin-xetex-bidi.def

```
10094 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10095 \renewcommand*{\c@twcompctr}[2]{%
10096   \def\c@twfirst{1}
10097   \loop\advance\c@twinlines\m@ne
10098   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10099   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10100   \c@twprune{\c@twslicea}{\c@twlftside}%
10101   \c@twprune{\c@twsliceb}{\c@twrtside}%
10102   \ifnum\c@twfirst=\@ne
10103     \setbox#2=\vbox{\unvbox#2\hbox
10104       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10105   \else
10106     \setbox#2=\vbox{\unvbox#2\hbox
10107       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\B
10108   \fi
10109   \def\c@twfirst{2}
10110   \ifnum\c@twinlines>\z@\repeat}
10111 \renewcommand*{\c@twcompoddctr}[2]{%
10112   \def\c@twrounds{1}
10113   \def\c@twfirst{1}
10114   \@for\c@twlspec:=\c@twb\do{%
10115     \ifnum\c@twrounds=1
10116       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10117       \c@twprune{\c@twslicea}{\c@twlspec}%
10118       \def\c@twrounds{2}
10119     \else
10120       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10121       \c@twprune{\c@twsliceb}{\c@twlspec}%
10122       \ifnum\c@twfirst=1
10123         \setbox#2=\vbox{\unvbox#2\hbox
10124           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL
10125         \def\c@twfirst{2}
10126       \else
10127         \setbox#2=\vbox{\unvbox#2\hbox
10128           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10129       \fi
10130       \def\c@twrounds{1}
10131     \fi}}
```

75 File cuted-xetex-bidi.def

```
10132 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10133
10134 \def\RTL@outputdblcol{%
10135   \if@firstcolumn
10136     \global\@firstcolumnfalse
10137     \global\setbox\@leftcolumn\copy\@outputbox
10138     \splitmaxdepth\maxdimen
10139     \vbadness\maxdimen
10140     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10141     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10142     \toks@\expandafter{\topmark}%
```



```

10143 \xdef\@firstcoltopmark{\the\toks@}%
10144 \toks@\expandafter{\splitfirstmark}%
10145 \xdef\@firstcolfirstmark{\the\toks@}%
10146 \ifx\@firstcolfirstmark\@empty
10147   \global\let\@setmarks\relax
10148 \else
10149   \gdef\@setmarks{%
10150     \let\firstmark\@firstcolfirstmark
10151     \let\topmark\@firstcoltopmark}%
10152 \fi
10153 \else
10154   \global\@firstcolumntrue
10155   \setbox\@outputbox\vbox{%
10156     \hb@xt@\textwidth{%
10157       \hskip \columnwidth
10158       \hfil
10159       {\normalcolor\vrule \@width\columnseprule}%
10160       \hfil
10161       \hb@xt@\columnwidth{%
10162         \bidi@firstcolumn@status@write%
10163         \box\@leftcolumn \hss}%
10164         \hskip -\textwidth
10165         \hb@xt@\columnwidth{%
10166           \bidi@lastcolumn@status@write%
10167           \box\@outputbox \hss}%
10168           \hskip \columnsep
10169           \hskip \columnwidth }}%
10170 \ifvoid\hold@viper
10171 \else
10172   \setbox\@outputbox \vbox to\textheight{%
10173     \box\hold@viper
10174     \box\@outputbox
10175     \vss
10176     }%
10177 \fi
10178 \@combinedblfloats
10179 \@setmarks
10180 \@outputpage
10181 \beginingroup
10182   \@dblfloatplacement
10183   \@startdblcolumn
10184   \@whilesw\if@fcolmade \fi{\@outputpage
10185   \@startdblcolumn}%
10186   \ifvoid\@viper
10187   \else
10188     \global\setbox\@viper\vbox{%
10189       \vskip-\stripsep
10190       \unvbox\@viper
10191       }%
10192   \@viperoutput
10193 \fi
10194 \endgroup
10195 \fi}%
10196

```



```

10197 \def\LTR@outputdblcol{%
10198   \if@firstcolumn
10199     \global\@firstcolumnfalse
10200     \global\setbox\@leftcolumn\copy\@outputbox
10201     \splitmaxdepth\maxdimen
10202     \vbadness\maxdimen
10203     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10204     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10205     \toks@\expandafter{\topmark}%
10206     \xdef\@firstcoltopmark{\the\toks@}%
10207     \toks@\expandafter{\splitfirstmark}%
10208     \xdef\@firstcolfirstmark{\the\toks@}%
10209     \ifx\@firstcolfirstmark\@empty
10210       \global\let\@setmarks\relax
10211     \else
10212       \gdef\@setmarks{%
10213         \let\firstmark\@firstcolfirstmark
10214         \let\topmark\@firstcoltopmark}%
10215     \fi
10216   \else
10217     \global\@firstcolumntrue
10218     \setbox\@outputbox\vbox{%
10219       \hb@xt@\textwidth{%
10220         \hb@xt@\columnwidth{%
10221           \bidi@firstcolumn@status@write%
10222           \box\@leftcolumn \hss}%
10223         \hfil
10224         {\normalcolor\vrule \@width\columnseprule}%
10225         \hfil
10226         \hb@xt@\columnwidth{%
10227           \bidi@lastcolumn@status@write%
10228           \box\@outputbox \hss}}}%
10229     \ifvoid\hold@viper
10230     \else
10231       \setbox\@outputbox \vbox to\textheight{%
10232         \box\hold@viper
10233         \box\@outputbox
10234         \vss
10235       }%
10236     \fi
10237   \@combinedblfloats
10238   \@setmarks
10239   \@outputpage
10240   \begingroup
10241     \@dblfloatplacement
10242     \@startdblcolumn
10243     \@whilesw\if@fcolmade \fi{\@outputpage
10244     \@startdblcolumn}%
10245     \ifvoid\@viper
10246     \else
10247       \global\setbox\@viper\vbox{%
10248         \vskip-\stripsep
10249         \unvbox\@viper
10250       }%

```



```

10251         \@viperoutput
10252         \fi
10253     \endgroup
10254 \fi}%
10255
10256 \def\@addviper{%
10257     \@insertfalse
10258     \def\var@@thecol@num{2}%
10259     \if@firstcolumn
10260         \def\var@@thecol@num{1}%
10261         \@reqcolroom=.5\@pageht
10262         \ht@viper=\@reqcolroom
10263         \advance\@reqcolroom by\ht\@viper
10264         \advance\@reqcolroom by\stripsep
10265     \else
10266         \@reqcolroom=\@colht
10267         \advance\@reqcolroom by\@pageht
10268         \ht@viper.5\@reqcolroom
10269         \@reqcolroom=\ht@viper
10270         \advance\@reqcolroom by\ht\@viper
10271         \advance\@reqcolroom by\stripsep
10272         \global\setbox\@holdpg\vbox{%
10273             \setbox\cuted@@tempbox@a\vbox{%
10274                 \aftergroup\unvbox
10275                 \unvcopy\@leftcolumn
10276                 \unskip\unkern\unpenalty
10277                 \setbox\@tempboxa\lastbox
10278                 \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10279                     %% keeps lastbox
10280                     \aftergroup\@leftcolumn
10281                 \else
10282                     %% removes lastbox
10283                     \aftergroup\cuted@@tempbox@a
10284                 \fi
10285             }%
10286             \unskip\unkern\unpenalty
10287             \on@stripcols@break
10288             \the\At@ViperColsBreak
10289             \unvbox\@holdpg
10290         }%
10291         \global\At@ViperColsBreak{}%
10292         \ht@viper=.5\ht\@holdpg
10293         \ifdim\ht@viper>\@colht
10294             \ht@viper=\@colht
10295         \fi
10296     \fi
10297     %%
10298     %% calculations for breaking
10299     %%
10300     \ifvoid\hold@viper
10301         \ht@hold@viper=\z@
10302     \else
10303         \ht@hold@viper=\ht\hold@viper
10304     \fi

```




```

10305 \cuted@@tempdim@b\ht@viper
10306 \set@split@topskip@to\topskip
10307 \loop
10308   \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10309   \setbox\cuted@@varbox@a\copy\@holdpg
10310   \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10311   %% set leftcolumn boxes
10312   \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10313   \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10314   \xdef\var@@leftcolumn@badness{\the\badness}%
10315   %% set rightcolumn boxes
10316   \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10317   \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10318   \xdef\var@@rightcolumn@badness{\the\badness}%
10319   %% analyzing split goodness
10320   \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10321   \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10322   \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10323   \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10324   \cuted@@wlog@debug{CUTED [-----]}%
10325   ^^JLeft: \the\ht\cuted@@tempbox@c
10326   +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10327   ^^JRight: \the\ht\cuted@@varbox@c
10328   +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10329   ^^JSplit: \the\cuted@@tempdim@b
10330   ^^JExtra height: \the\cuted@@tempdim@spread
10331   }%
10332   \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10333     \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10334       \cuted@@tempdim@spread=\z@
10335     \fi
10336   \fi
10337   \ifdim\cuted@@tempdim@spread<\z@
10338     \if@left@column@spread
10339       \if@right@column@shrink
10340         \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10341           \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10342         \else
10343           \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10344         \fi
10345         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10346         \ifnum\badness<\cuted@@column@badness
10347           \cuted@@tempdim@b=\cuted@@tempdim@a
10348           \cuted@@tempdim@spread=\z@
10349         \fi
10350         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10351         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10352         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10353       \else
10354         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{f%
10355         \unvcopy\cuted@@tempbox@c
10356         }%
10357       \ifnum\badness<\cuted@@column@badness
10358         \@tempdimb=\ht\cuted@@varbox@c

```



```

10359             \cuted@@tempdim@spread=\z@
10360         \fi
10361         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10362         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10363             \unvcopy\cuted@@varbox@c
10364         }%
10365         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10366     \fi
10367     \else
10368         \if@right@column@shrink
10369             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10370         \else
10371             \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10372             \cuted@@tempdim@spread=\z@
10373         \fi
10374     \fi
10375 \fi
10376 \else
10377     \ifdim\cuted@@tempdim@spread>\z@
10378         \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht
10379             \cuted@@tempdim@b=\@colht
10380             \cuted@@tempdim@spread=\z@
10381         \fi
10382     \fi
10383 \fi
10384 \ifdim\cuted@@tempdim@spread<\z@
10385     \advance\cuted@@tempdim@b 1\p@
10386 \repeat
10387 \wlog{CUTED [- LAST -]%
10388     ^^JExtra skip:\the\cuted@@tempdim@spread
10389     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10390     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10391     ^^JSplit:\saved@tempdimb
10392     ^^JOutput:\the\cuted@@tempdim@b
10393     ^^JPageshrink:\the\pageshrink
10394     ^^JPagestretch:\the\pagestretch
10395     ^^J@colht:\the\@colht
10396 }%
10397 %%
10398 %% final construction of the cuted page above strip
10399 %%
10400 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10401 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{
10402     \cuted@@tempdim@a=\dimexpr
10403         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10404         \relax
10405     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10406     \unvbox\cuted@@tempbox@c
10407     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10408     \else
10409         \vskip-\cuted@@tempdim@spread
10410     \fi
10411     \prevdepth\z@
10412     \hrule\@height\cuted@@page@rule width\textwidth

```



```

10413     \vskip-\cuted@@page@rule
10414     \ifdim\cuted@@tempdim@a>\z@
10415         \if@left@column@spread
10416         \else
10417             \vss
10418         \fi
10419     \else
10420         \ifdim\cuted@@tempdim@a<\z@
10421             \if@left@column@shrink
10422             \else
10423                 \vss
10424             \fi
10425         \fi
10426     \fi
10427 }%
10428 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10429     ^^JCUTED [leftcolumn badness]: \number\badness
10430 }%
10431 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10432     \cuted@@tempdim@a=\dimexpr
10433     \cuted@@tempdim@b-\ht\@holdpg
10434     \relax
10435     \unvbox\@holdpg
10436     \ifdim\cuted@@tempdim@a>\z@
10437         \if@right@column@spread
10438         \else
10439             \vss
10440         \fi
10441     \else
10442         \ifdim\cuted@@tempdim@a<\z@
10443             \if@right@column@shrink
10444             \else
10445                 \vss
10446             \fi
10447         \fi
10448     \fi
10449 }%
10450 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10451 \setbox\cuted@@tempbox@var\vbox{%
10452     \hb@xt@\textwidth{%
10453         \if@RTLmain
10454             \hskip \columnwidth
10455             \hfil
10456             {\normalcolor\vrule \@width\columnseprule}%
10457             \hfil
10458             \hb@xt@\columnwidth{%
10459                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}}%
10460             \hss
10461         }%
10462         \hskip -\textwidth
10463         \hb@xt@\columnwidth{%
10464             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}}%
10465         \hss
10466     }%

```



```

10467         \hskip \columnsep
10468         \hskip \columnwidth
10469     \else
10470         \hb@xt@\columnwidth{%
10471             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10472             \hss
10473         }%
10474         \hfil
10475         {\normalcolor\vrule \@width\columnseprule}%
10476         \hfil
10477         \hb@xt@\columnwidth{%
10478             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10479             \hss
10480         }%
10481     \fi
10482 }%
10483 }%
10484 %%
10485 %% finalize cuted page
10486 %%
10487 \ifvoid\hold@viper
10488     \global\setbox\hold@viper\vbox{%
10489         \unvbox\cuted@@tempbox@var
10490         \penalty\interlinepenalty
10491         \vskip\stripsep
10492         \the\preCutedStrip
10493         \ifnum\outputpenalty<-\@Mii
10494             \vskip -\parskip
10495         \fi
10496         \outputpenalty\z@
10497     }%
10498 \else
10499     \global\setbox\hold@viper\vbox{%
10500         \unvbox\hold@viper
10501         \cuted@@tempbox@var
10502         \penalty\interlinepenalty
10503         \vskip\stripsep
10504         \the\preCutedStrip
10505         \ifnum\outputpenalty<-\@Mii
10506             \vskip -\parskip
10507         \fi
10508         \outputpenalty\z@
10509     }%
10510 \fi
10511 \ifdim\@colht>\@reqcolroom
10512     \global\setbox\hold@viper\vbox{%
10513         \unvbox\hold@viper
10514         \box@viper
10515         \penalty\interlinepenalty
10516         \the\postCutedStrip
10517         \vskip\stripsep
10518         \ifnum\outputpenalty<-\@Mii
10519             \vskip -\parskip
10520         \fi

```



```

10521         \outputpenalty\z@
10522         }%
10523     \@inserttrue
10524     \global\@firstcolumntrue
10525     \advance\ht@hold@viper by-\ht\hold@viper
10526     \global\advance\@colht by\ht@hold@viper
10527     \ifdim\@colht<2.5\baselineskip
10528         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10529                                     too tall on page \thepage (\var@@thecol@num column)}%
10530         \@emptycol
10531         \if@firstcolumn
10532         \else
10533             \@emptycol
10534         \fi
10535         \global\@lastvipertrue
10536     \else
10537         \global\vsizel\@colht
10538         \global\@colroom\@colht
10539         \check@floats\cuted@@tempdim@a
10540         \ifdim\cuted@@tempdim@a>\z@
10541             \global\advance\@colroom by-\cuted@@tempdim@a
10542         \fi
10543         \ifdim\@colroom<\z@
10544             \global\@colroom1\p@
10545             \ifdim\cuted@@tempdim@a>\@colht
10546                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10547                                         to large on \thepage (\var@@thecol@num column)}%
10548             \fi
10549             \@emptycol
10550             \if@firstcolumn
10551             \else
10552                 \@emptycol
10553             \fi
10554             \global\@lastvipertrue
10555         \fi
10556     \fi
10557 \fi
10558 \if@insert
10559 \else
10560     \advance\ht@hold@viper by-\ht\hold@viper
10561     \global\advance\@colht by\ht@hold@viper
10562     \global\setbox\hold@viper\ vbox{%
10563         \unvbox\hold@viper
10564         \set@split@topskip@to{\z@ plus2\p@}%
10565         \vsplit\@viper to\@colht
10566         \vss
10567     }%
10568     \vbox{}%
10569     \global\@firstcolumnfalse
10570     \newpage
10571 \fi
10572 }

```



76 File cvthemebidicasual.sty

```
10573 \NeedsTeXFormat{LaTeX2e}
10574 \ProvidesPackage{cvthemebidicasual}
10575 \DeclareOption{blue}{}
10576 \newif\if@colourorange\@colourorangefalse
10577 \DeclareOption{orange}{\@colourorange>true}
10578 \newif\if@colourgreen\@colourgreenfalse
10579 \DeclareOption{green}{\@colourgreentruer}
10580 \newif\if@coloured\@colouredfalse
10581 \DeclareOption{red}{\@colouredtrue}
10582 \newif\if@colourgrey\@colourgreyfalse
10583 \DeclareOption{grey}{\@colourgreytrue}
10584 \DeclareOption*{
10585   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10586 \ExecuteOptions{colour}
10587 \ProcessOptions\relax
10588 \renewcommand*{\listitemsymbol}{\textbullet}
10589 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10590 \familynamecolour{808080}
10591 \firstnamecolour{A9A9A9}
10592 \quotecolour{696969}
10593 \addresscolour{696969}
10594 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10595 \sectiontitlecolour{1E90FF}
10596 \subsectioncolour{4682B4}
10597 \definecolor{rulecolour}{gray}{0.6}
10598 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10599 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10600 \if@colourorange
10601   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10602   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10603   \sectiontitlecolour{FF8C00}
10604   \subsectioncolour{FF8C00}
10605   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10606   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10607 \if@colourgreen
10608   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10609   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10610   \sectiontitlecolour{008000}
10611   \subsectioncolour{008000}
10612   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10613   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10614 \if@coloured
10615   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10616   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10617   \sectiontitlecolour{FF0000}
10618   \subsectioncolour{FF0000}
10619   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10620   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10621 \if@colourgrey
10622   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10623   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10624   \sectiontitlecolour{808080}
```



```

10625 \subsectioncolour{808080}
10626 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10627 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10628 \renewcommand*\ttdefault{pcr}
10629 \renewcommand*\firstnamefont{\fontsize{38}{40}\mdseries\upshape}
10630 \renewcommand*\familynamefont{\firstnamefont}
10631 \renewcommand*\addressfont{\normalsize\mdseries\slshape}
10632 \renewcommand*\quoteont{\large\slshape}
10633 \renewcommand*\sectionfont{\Large\mdseries\upshape}
10634 \renewcommand*\subsectionfont{\large\mdseries\upshape}
10635 \renewcommand*\maketitle{%
10636   {%
10637     \ifthenelse{\isundefined{\@photo}}%
10638       {}%
10639       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10640     \hfill%
10641     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10642     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10643   \ifthenelse{\isundefined{\@quote}}%
10644     {}%
10645     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\}
10646   }%
10647 \newif\if@firstfooterelement\@firstfooterelementtrue
10648 \providecommand*\footersymbol{}
10649 \renewcommand*\footersymbol{%
10650   \if@firstfooterelement%
10651     \else%
10652     { ~\color{footersymbolcolor}\textbullet~~}\fi}
10653 \providecommand*\makefooter{}
10654 \renewcommand*\makefooter{%
10655   \fancypagestyle{plain}{%
10656     \fancyfoot[c]{%
10657       \parbox{0.8\textwidth}{%
10658         \centering%
10659         \addressfont\@addresscolour%
10660         \ifthenelse{\isundefined{\@address}}{}{}%
10661         \addresssymbol~\@address\%
10662         \@firstfooterelementfalse}%
10663         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10664         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10665         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10666         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
10667         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10668       }%
10669     \pagestyle{plain}}
10670 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10671 \NeedsTeXFormat{LaTeX2e}
10672 \ProvidesPackage{cvthemebidiclassic}
10673 \DeclareOption{blue}{}
10674 \newif\if@colourorange\@colourorangefalse
10675 \DeclareOption{orange}{\@colourorange>true}

```



```

10676 \newif\if@colourgreen\@colourgreenfalse
10677 \DeclareOption{green}{\@colourgreentruer}
10678 \newif\if@coloured\@colouredfalse
10679 \DeclareOption{red}{\@colouredtrue}
10680 \newif\if@colourgrey\@colourgreyfalse
10681 \DeclareOption{grey}{\@colourgreytrue}
10682 \DeclareOption*{
10683   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10684 \ExecuteOptions{colour}
10685 \ProcessOptions\relax
10686 \renewcommand*{\listitemsymbol}{\textbullet}
10687 \firstnamecolour{}
10688 \familynamecolour{}
10689 \titlecolour{808080}
10690 \quotecolour{696969}
10691 \addresscolour{696969}
10692 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10693 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10694 \sectiontitlecolour{1E90FF}
10695 \subsectioncolour{4682B4}
10696 \if@colourorange
10697   \addresscolour{FF8C00}
10698   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10699   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10700   \sectiontitlecolour{FF8C00}
10701   \subsectioncolour{FF8C00}\fi
10702 \if@colourgreen
10703   \addresscolour{008000}
10704   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10705   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10706   \sectiontitlecolour{008000}
10707   \subsectioncolour{008000}\fi
10708 \if@coloured
10709   \addresscolour{FF0000}
10710   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10711   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10712   \sectiontitlecolour{FF0000}
10713   \subsectioncolour{FF0000}\fi
10714 \if@colourgrey
10715   \addresscolour{808080}
10716   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10717   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10718   \sectiontitlecolour{808080}
10719   \subsectioncolour{808080}\fi
10720 \renewcommand*{\ttdefault}{pcr}
10721 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10722 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10723 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10724 \renewcommand*{\familynamefont}{\firstnamefont}
10725 \renewcommand*{\quotefont}{\large\slshape}
10726 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10727 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10728 \newlength{\maketitlenamemaxwidth}
10729 \setlength{\maketitlenamemaxwidth}{.525\textwidth}

```




```

10730 \newlength{\maketitlefullnamewidth}
10731 \settowidth{\maketitlefullnamewidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10732 \newlength{\maketitlewidth}
10733 \ifnum\maketitlemaxwidth<\maketitlefullnamewidth\setlength{\maketitlewidth}{\maketitlefullnamewidth}
10734 \newlength{\maketitlepicturewidth}
10735 \setlength{\maketitlepicturewidth}{\@photowidth}
10736 \newlength{\maketitledetailwidth}
10737 \renewcommand*{\recomputethemelengths}{%
10738   \setlength{\maketitledetailwidth}{\textwidth}%
10739   \addtolength{\maketitledetailwidth}{-\maketitlewidth}%
10740   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10741   \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10742 \recomputethemelengths
10743 \newif\if@firstdetailselement\@firstdetailselementtrue
10744 \newcommand*{\maketitledetailsnewline}{
10745   \if@firstdetailselement%
10746     \@firstdetailselementfalse%
10747   \else%
10748     \[.2em]\fi}
10749 \renewcommand*{\maketitle}{%
10750   % name and title
10751   \begin{minipage}[b]{\maketitlewidth}%
10752     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10753     \ifthenelse{\equal{\@title}{}}{\[1.25em]\titlestyle{\@title}}{}%
10754   \end{minipage}%
10755   % optional data
10756   \begin{minipage}[b]{\maketitledetailwidth}%
10757     \bidi@raggedleft\addressfont\addresscolour%
10758     \ifthenelse{\isundefined{\@address}}{\[1.25em]\@address}{}%
10759     \maketitledetailsnewline%
10760     \addresssymbol~\@address%
10761     \ifthenelse{\isundefined{\@mobile}}{\maketitledetailsnewline\mobilesymbol~\@mobile}{}%
10762     \ifthenelse{\isundefined{\@phone}}{\maketitledetailsnewline\phonesymbol~\@phone}{}%
10763     \ifthenelse{\isundefined{\@fax}}{\maketitledetailsnewline\faxsymbol~\@fax}{}%
10764     \ifthenelse{\isundefined{\@email}}{\maketitledetailsnewline\emailsymbol~\emaiillink{\@email}}{}%
10765     \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}{}%
10766   \end{minipage}%
10767   % optional photo
10768   \ifthenelse{\isundefined{\@photo}}{\[1.25em]\@photo}{}%
10769   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10770   % optional quote
10771   \ifthenelse{\isundefined{\@quote}}{\[1.25em]\@quote}{}%
10772   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\@quote}%
10773   }
10774 }
10775 }

```

78 File dblfnote-xetex-bidi.def

```

10776 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10777 \let\autofooterule\relax
10778 \let\rightfooterule\relax
10779 \let\leftfooterule\relax
10780 \let\textwidthfooterule\relax

```



```

10781 \let\LRfootnoterule\relax
10782 \def\footnoterule{\kern-3\p@
10783   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10784 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10785 \let\@footnotetext\dfn@footnotetext}
10786 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10787   \let\insert\dfn@gobble
10788   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10789   \def\@makefnmark{\smash{\dfn@makefnmark}}
10790   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10791   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10792   \ifdim\dfn@dima>\z@\else
10793     \dfn@dima1sp\relax
10794     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10795   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10796     \ifvoid\dfn@ins\else
10797       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10798     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10799   \setbox\dfn@boxa\copy\dfn@ins
10800   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10801   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10802   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10803   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10804   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10805 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10806 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10807 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10808   \let\insert\dfn@gobble
10809   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10810   \def\@makefnmark{\smash{\dfn@makefnmark}}
10811   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10812   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10813   \ifdim\dfn@dima>\z@\else
10814     \dfn@dima1sp\relax
10815     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10816   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10817     \ifvoid\dfn@ins\else
10818       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10819     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10820   \setbox\dfn@boxa\copy\dfn@ins
10821   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10822   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10823   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10824   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10825   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10826 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10827 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10828 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10829   \dfn@dima\ht\footins
10830   \@tempcnta\z@ \dfn@countins
10831   \@tempdima\z@ \let\@elt\dfn@elt@getht
10832   \dfn@list\@nil
10833   \ifdim\@tempdima=\z@\else
10834   \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@

```



```

10835 \global\setbox\dfn@ins\box\dfn@ins
10836 \@tempswtrue
10837 \ifdfn@trysingle
10838 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
10839 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10840 \advance\@tempdima-\skip\footins
10841 \advance\@tempdima-\ht\dfn@boxa
10842 \ifdim\@tempdima<\z@\else \@tempswafalse
10843 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
10844 \footnoterule \unvbox\dfn@boxa}\fi\fi
10845 \if@tempswa
10846 \dfn@split{\dfn@dim}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10847 \global\setbox\footins\ vbox{\hbox{%
10848 \hskip \DFNcolumnwidth
10849 \hskip\DFNcolumnsep
10850 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10851 \unvbox\dfn@boxb\vss}\hss}
10852 \hskip -\textwidth
10853 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10854 \vbox to\@tempdima{
10855 \setbox\@tempboxa\ vbox{\footnoterule}
10856 \ifdfn@ruleboth \unvbox\@tempboxa
10857 \else \@tempdima\ht\@tempboxa
10858 \advance\@tempdima\dp\@tempboxa
10859 \vskip\@tempdima
10860 \prevdepth\dp\@tempboxa \fi
10861 \unvbox\dfn@boxa\vss}\fi\hss}
10862 \hskip \DFNcolumnsep
10863 \hskip \DFNcolumnwidth}}\fi\fi
10864 \global\dfn@fnht\z@
10865 \ifx\dfn@list\@empty\else
10866 \let\@elt\dfn@elt\adjust \dfn@dim\z@ \dfn@dim\z@
10867 \dfn@list \global\advance\dfn@fnht\dfn@dim
10868 \let\@elt\relax
10869 \ifdim\dfn@dim>\z@
10870 \xdef\dfn@list{\@elt{0}{\number\dfn@dim}\dfn@list}%
10871 \insert\footins{\floatingpenalty\@MM
10872 \vbox to\dfn@dim{}}\fi
10873 \ifdim\dfn@fnht>\@tempdima
10874 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10875 \global\dfn@fnht\@tempdima
10876 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10877 \xdef\dfn@afteroutput{\insert\footins{
10878 \floatingpenalty\@MM
10879 \vbox to\number\@tempdimb sp{}}%
10880 \global\let\noexpand\dfn@afteroutput\relax}%
10881 \fi\fi
10882 \fi}%
10883 \let\footnoterule\relax \dfn@latex@makecol
10884 \let\footnoterule\dfn@footnoterule}
10885 \def\dfn@LTRmakecol{\ifvoid\footins\else
10886 \dfn@dim\ht\footins
10887 \@tempcnta\z@ \dfn@countins
10888 \@tempdima\z@ \let\@elt\dfn@elt@getht

```



```

10889 \dfn@list\@nil
10890 \ifdim\@tempdima=\z@\else
10891 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10892 \global\setbox\dfn@ins\box\dfn@ins
10893 \@tempwattrue
10894 \ifdfn@trysingle
10895 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10896 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10897 \advance\@tempdima-\skip\footins
10898 \advance\@tempdima-\ht\dfn@boxa
10899 \ifdim\@tempdima<\z@\else \@tempwafalse
10900 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10901 \footnoterule \unvbox\dfn@boxa}\fi\fi
10902 \if@tempswa
10903 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10904 \global\setbox\footins\vbox{\hbox{%
10905 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10906 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10907 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10908 \vbox to\@tempdima{
10909 \setbox\@tempboxa\vbox{\footnoterule}
10910 \ifdfn@ruleboth \unvbox\@tempboxa
10911 \else \@tempdima\ht\@tempboxa
10912 \advance\@tempdima\dp\@tempboxa
10913 \vskip\@tempdima
10914 \prevdepth\dp\@tempboxa \fi
10915 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10916 \global\dfn@fnht\z@
10917 \ifx\dfn@list\@empty\else
10918 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10919 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10920 \let\@elt\relax
10921 \ifdim\dfn@dimb>\z@
10922 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10923 \insert\footins{\floatingpenalty\@MM
10924 \vbox to\dfn@dimb{}}\fi
10925 \ifdim\dfn@fnht>\@tempdima
10926 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10927 \global\dfn@fnht\@tempdima
10928 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10929 \xdef\dfn@afteroutput{\insert\footins{
10930 \floatingpenalty\@MM
10931 \vbox to\number\@tempdimb sp{}}}%
10932 \global\let\noexpand\dfn@afteroutput\relax}%
10933 \fi\fi
10934 \fi}%
10935 \let\footnoterule\relax \dfn@latex@makecol
10936 \let\footnoterule\dfn@footnoterule}
10937 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10938 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10939 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10940 \DFNalwaysdouble

```



79 File diagbox-xetex-bidi.def

```
10941 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10942 \bidi@patchcmd{\diagbox@double}{%
10943   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10944 }{\bidi@@diagbox@double@ii}{-}{-}
10945 \bidi@patchcmd{\diagbox@double}{%
10946   \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10947 }{\bidi@@diagbox@double@iii}{-}{-}
10948 \newcommand*\bidi@@diagbox@double@ii}{%
10949   \ifRTL
10950     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}
10951   \else
10952     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10953   \fi
10954 }
10955 \newcommand*\bidi@@diagbox@double@iii}{%
10956   \ifRTL
10957     \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}
10958   \else
10959     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10960   \fi
10961 }
10962 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10963   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10964 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10965 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10966   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10967 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10968 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10969   \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10970 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10971 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10972   \ifRTL
10973     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}
10974   \else
10975     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10976   \fi}
10977 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10978   \ifRTL
10979     \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}
10980   \else
10981     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10982   \fi}
10983 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10984 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10985   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}%
10986 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10987 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10988   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10989 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10990 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10991   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10992 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
```



```

10993 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@i}{%
10994   \if@RTL
10995     \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}}
10996   \else
10997     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10998   \fi
10999 }
11000 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11001   \if@RTL
11002     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11003   \else
11004     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}}
11005   \fi
11006 }
11007 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11008 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11009   \diagbox@setlinecolor
11010   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11011 }{%
11012   {\diagbox@setlinecolor
11013   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11014 }{}
11015 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11016 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11017   \diagbox@setlinecolor
11018   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11019 }{%
11020   {\diagbox@setlinecolor
11021   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11022 }{}
11023 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11024 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11025   \diagbox@setlinecolor
11026   \Line(0,\yym)(\x,0)
11027   \Line(\xm,\y)(\x,0)%
11028 }{%
11029   {\diagbox@setlinecolor
11030   \Line(0,\yym)(\x,0)
11031   \Line(\xm,\y)(\x,0)}%
11032 }{}
11033 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11034   \diagbox@setlinecolor
11035   \Line(0,0)(\xxm,\y)
11036   \Line(0,0)(\x,\yym)%
11037 }{%
11038   {\diagbox@setlinecolor
11039   \Line(0,0)(\xxm,\y)
11040   \Line(0,0)(\x,\yym)}%
11041 }{}
11042 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11043   \diagbox@setlinecolor
11044   \Line(0,\ym)(\x,\y)
11045   \Line(\xm,0)(\x,\y)%
11046 }{%

```



```

11047 {\diagbox@setlinecolor
11048 \Line(0,\ym)(\x,\y)
11049 \Line(\xm,0)(\x,\y)}%
11050 }{}{}
11051 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11052 \diagbox@setlinecolor
11053 \Line(0,\y)(\xxm,0)
11054 \Line(0,\y)(\x,\ym)}%
11055 }{}%
11056 {\diagbox@setlinecolor
11057 \Line(0,\y)(\xxm,0)
11058 \Line(0,\y)(\x,\ym)}%
11059 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11060 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11061 \renewcommand\SetWatermarkText[1]{%
11062 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11063 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11064 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11065 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11066
11067 \ESO@isMEMOIR{%
11068 \renewcommand\AtTextUpperLeft[1]{%
11069 \begingroup
11070 \ifodd\c@page
11071 \if@RTLmain
11072 \ESO@tempdima=\paperwidth
11073 \advance\ESO@tempdima-\textwidth
11074 \advance\ESO@tempdima-\spinemargin
11075 \else
11076 \ESO@tempdima=\spinemargin
11077 \fi
11078 \else
11079 \if@RTLmain
11080 \ESO@tempdima=\spinemargin
11081 \else
11082 \ESO@tempdima=\paperwidth
11083 \advance\ESO@tempdima-\textwidth
11084 \advance\ESO@tempdima-\spinemargin
11085 \fi
11086 \fi
11087 \ESO@tempdimb=-\uppermargin
11088 \AtPageUpperLeft{%
11089 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11090 }%
11091 \endgroup
11092 }
11093 }{}%
11094 \renewcommand\AtTextUpperLeft[1]{%

```



```

11095 \begingroup
11096 \ESO@tempdima=1in\relax
11097 \if@twoside
11098 \ifodd\c@page
11099 \if@RTLmain
11100 \advance\ESO@tempdima\evensidemargin
11101 \else
11102 \advance\ESO@tempdima\oddsidemargin
11103 \fi
11104 \else
11105 \if@RTLmain
11106 \advance\ESO@tempdima\oddsidemargin
11107 \else
11108 \advance\ESO@tempdima\evensidemargin
11109 \fi
11110 \fi
11111 \else
11112 \advance\ESO@tempdima\oddsidemargin
11113 \fi
11114 \ESO@tempdimb=-1in\relax
11115 \advance\ESO@tempdimb-\topmargin
11116 \advance\ESO@tempdimb-\headheight
11117 \advance\ESO@tempdimb-\headsep
11118 \AtPageUpperLeft{%
11119 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11120 }%
11121 \endgroup
11122 }
11123 }

```

82 File empheq-xetex-bidi.def

```

11124 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11125 \MHInternalSyntaxOn
11126 \def\EQ_tag_plus_endmark:{%
11127 \iftagsleft@
11128 \gdef\maketag@@@##1{%
11129 \hfuzz\displaywidth
11130 \if@RTL\makebox[\widthof{##1}][r]{%
11131 \hbox to \displaywidth{\m@th\normalfont##1\hss
11132 \raisebox{-\dp\EQ_mathdisplay_box
11133 -\depthof{\EQ_outerbox:}}{
11134 {\PotEndMark{\hss}}}}
11135 \else\makebox[\widthof{##1}][l]{%
11136 \hbox to \displaywidth{\m@th\normalfont##1\hss
11137 \raisebox{-\dp\EQ_mathdisplay_box
11138 -\depthof{\EQ_outerbox:}}{
11139 {\PotEndMark{\hss}}}}\fi}%
11140 \MH_else:
11141 \gdef\maketag@@@##1{%
11142 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11143 \settoheight{\@tempdima}{\@nameuse{\InTheType Symbol}}}%
11144 \MH_addtolength:dn \@tempdima
11145 {\g_EQ_bottomtag_depth_dim+\mintagvsep}

```




```

11146     \setlength{\@tempdimb}
11147     {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox: {}}}
11148     +\depthof{\EQ_innerbox: {}}}
11149     \MH_if_dim:w \@tempdima>\@tempdimb
11150     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11151     -\@tempdima+\g_EQ_bottomrow_depth_dim}
11152     \addtolength{\@tempdima}{\depthof{\EQ_innerbox: {}}}%
11153     \def\EQ_next:{\raisebox{\@tempdima}}%
11154     \MH_else:
11155     \def\EQ_next:{
11156     \raisebox{-\dp\EQ_mathdisplay_box
11157     -\depthof{\EQ_outerbox: {}}}%
11158     \MH_fi:\EQ_next:}}}%
11159     \MH_fi:}
11160 \def\EQ_post_process:{%
11161 \EQ_initialize:
11162 \EQ_begin_equation:
11163 \MH_if_boolean:nT {outer_mult}{
11164 \setkeys{\MT_options_name:}{
11165 firstline-afterskip=Opt,
11166 lastline-preskip=Opt,
11167 multlined-width=Opt,
11168 }
11169 \ifodd \l_EQ_alignmentmode_int
11170 \setkeys{\MT_options_name:}{multlined-pos=b}
11171 \MH_else:
11172 \setkeys{\MT_options_name:}{multlined-pos=t}
11173 \MH_fi:
11174 \g@addto@macro\EQ_complete_mathdisplay:{
11175 \begin{MTmultlined}\relax}
11176 }
11177 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11178 \MH_if_boolean:nT {outer_mult}{
11179 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11180 }
11181 \EQ_end_equation:
11182 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11183 \savecounters@
11184 \EQ_typeset_tags:
11185 \edef\l_EQ_equation_fint{\number\c@equation}
11186 \restorecounters@
11187 \Hy@linkcounter=\EQ_hyperref_link_fint
11188 \settowidth\l_EQ_totalwidth_dim{%
11189 $\EQ_left_side:\EQ_innerbox: {\EQ_right_side:}$}%
11190 \MH_if_boolean:nTF {outer_mult}
11191 { \def\EQ_next:{_mult} }
11192 { \def\EQ_next:{} }
11193 \@nameuse{EQ_modify_linewidth_
11194 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11195 \EQ_typeset_display:
11196 \@nameuse{EQ_find_displaywidth_
11197 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11198 \MH_addtolength:dn
11199 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}

```



```

11200 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11201   $\EQ_left_side:
11202   \EQ_innerbox:{%
11203     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11204     \makebox[\l_EQ_displaywidth_dim][c]
11205     {\usebox{\EQ_mathdisplay_box}}%
11206   \MH_or:
11207     \makebox[\l_EQ_displaywidth_dim][c]
11208     {\usebox{\EQ_mathdisplay_box}}%
11209   \MH_or:
11210     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11211     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11212     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11213     \kern-\@mathmargin
11214     \MH_fi:
11215     \MH_fi:
11216     \usebox{\EQ_mathdisplay_box}}%
11217   \else\makebox[\l_EQ_displaywidth_dim][l]{%
11218   \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11219   \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11220   \kern-\@mathmargin
11221   \MH_fi:
11222   \MH_fi:
11223   \usebox{\EQ_mathdisplay_box}}\fi%
11224 \MH_or:
11225 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11226 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11227 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11228 \kern-\@mathmargin
11229 \MH_fi:
11230 \MH_fi:
11231 \usebox{\EQ_mathdisplay_box}}
11232 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11233 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11234 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11235 \kern-\@mathmargin
11236 \MH_fi:
11237 \MH_fi:
11238 \usebox{\EQ_mathdisplay_box}}\fi%
11239 \MH_fi:}%
11240 \EQ_right_side:$}%
11241 \begin{AmSequation*}
11242 \@nameuse{EQ_place_display_
11243   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11244 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11245 \MH_set_boolean_T:n {show_manual_tags}
11246 \MH_if_case:w \l_EQ_alignmentmode_int
11247 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
11248 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
11249 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
11250 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
11251 \MH_fi:
11252 \MH_fi:
11253 \end{AmSequation*}

```



```

11254 \global\c@equation=\l_EQ_equation_fint\relax
11255 }
11256 \AtBeginDocument{%
11257   \@ifpackageloaded{fancybox}{%
11258     \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11259     {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11260     \renewcommand*\shadowbox{%
11261       \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11262         \VerbBox\EQ_shadowbox:n}
11263       {\MH_set_boolean_F:n {shadowbox_star}
11264         \VerbBox\EQ_shadowbox:n}}
11265     \def\EQ_shadowbox:n #1{%
11266       \sbox{\z@}{\fbox{#1}}%
11267       \MH_if_boolean:nTF {shadowbox_star}{
11268         \MH_setlength:dn \@tempdima{\z@}%
11269       }{
11270         \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11271       }
11272       \raisebox{\@tempdima}{%
11273         \if@RTL\makebox[\z@][r]{%
11274           \kern\shadowsize \textcolor{shadowcolor}{%
11275             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11276         }%
11277         \else\makebox[\z@][l]{%
11278           \kern\shadowsize \textcolor{shadowcolor}{%
11279             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11280         }\fi%
11281         \usebox\z@\textcolor{shadowcolor}{%
11282           \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11283       }{}%
11284 }
11285 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11286 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
11287 \renewcommand*\l@section[2]{%
11288   \ifnum \c@tocdepth >\z@
11289     \addpenalty\@secpenalty
11290     \addvspace{1.0em \@plus\p@}%
11291     \setlength\@tempdima{1.5em}%
11292     \begingroup
11293       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11294       \parfillskip -\@pnumwidth
11295       \leavevmode \bfseries
11296       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11297       \hskip -\if@RTL\rightskip\else\leftskip\fi
11298       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11299     \endgroup
11300   \fi}
11301 \renewcommand*\l@part[2]{%
11302   \ifnum \c@tocdepth >-2\relax
11303     \addpenalty\@secpenalty
11304     \addvspace{2.25em \@plus\p@}%

```



```

11305 \begingroup
11306 \setlength\@tempdima{3em}%
11307 \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
11308 \parfillskip -\@pnumwidth
11309 {\leavevmode
11310 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11311 \nobreak
11312 \endgroup
11313 \fi}
11314 \def\@part[#1]#2{%
11315 \ifnum \c@secnumdepth >\m@ne
11316 \refstepcounter{part}%
11317 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11318 \else
11319 \addcontentsline{toc}{part}{#1}%
11320 \fi
11321 {\parindent \z@ \ifRTL\raggedleft\else\raggedright\fi
11322 \interlinepenalty \M
11323 \normalfont
11324 \ifnum \c@secnumdepth >\m@ne
11325 \Large\bfseries \partname~\thepart
11326 \par\nobreak
11327 \fi
11328 \huge \bfseries #2%
11329 \markboth{}{\}\par}%
11330 \nobreak
11331 \vskip 3ex
11332 \@afterheading}
11333 \def\@spart#1{%
11334 {\parindent \z@ \ifRTL\raggedleft\else\raggedright\fi
11335 \interlinepenalty \M
11336 \normalfont
11337 \huge \bfseries #1\par}%
11338 \nobreak
11339 \vskip 3ex
11340 \@afterheading}
11341 \renewenvironment{thebibliography}[1]
11342 {\section*{\refname
11343 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11344 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
11345 \bidi@thebibliography@font@hook%
11346 \list{\@biblabel{\@arabic\c@enumiv}}%
11347 {\settowidth\labelwidth{\@biblabel{#1}}%
11348 \leftmargin\labelwidth
11349 \advance\leftmargin\labelsep
11350 \@openbib@code
11351 \usecounter{enumiv}%
11352 \let\p@enumiv\@empty
11353 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11354 \sloppy\clubpenalty4000\widowpenalty4000%
11355 \sfcode\.\@m}
11356 {\def\@noitemerr
11357 {\@latex@warning{Empty `thebibliography' environment}}%
11358 \endlist}

```



```

11359 \renewcommand\left@footnoterule{%
11360   \kern-3\p@
11361   \hrule\@width.4\columnwidth
11362   \kern2.6\p@}
11363 \renewcommand\right@footnoterule{%
11364   \kern-3\p@
11365   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11366   \kern2.6\p@}
11367   \if@titlepage
11368   \renewcommand\maketitle{\begin{titlepage}%
11369     \let\footnotesize\small
11370     \let\right@footnoterule\relax
11371     \let\left@footnoterule\relax
11372     \let\textwidth@footnoterule\relax
11373     \let \footnote \thanks
11374     \null\vfil
11375     \vskip 60\p@
11376     \begin{center}%
11377       {\LARGE \@title \par}%
11378       \vskip 3em%
11379       {\large
11380         \lineskip .75em%
11381         \begin{tabular}[t]{c}%
11382           \@author
11383           \end{tabular}\par}%
11384         \vskip 1.5em%
11385         {\large \@date \par}%           % Set date in \large size.
11386     \end{center}\par
11387     \@thanks
11388     \vfil\null
11389     \end{titlepage}%
11390     \setcounter{footnote}{0}%
11391     \global\let\thanks\relax
11392     \global\let\maketitle\relax
11393     \global\let\@thanks\@empty
11394     \global\let\@author\@empty
11395     \global\let\@date\@empty
11396     \global\let\@title\@empty
11397     \global\let\title\relax
11398     \global\let\author\relax
11399     \global\let\date\relax
11400     \global\let\and\relax
11401   }
11402 \else
11403 \renewcommand\maketitle{\par
11404   \begingroup
11405     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11406     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11407     \long\def\@makefntext##1{\parindent 1em\noindent
11408       \hb@xt@1.8em{%
11409         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11410     \if@twocolumn
11411       \ifnum \col@number=\@ne
11412         \@maketitle

```



```

11413     \else
11414         \twocolumn[\@maketitle]%
11415     \fi
11416     \else
11417         \newpage
11418         \global\@topnum\z@ % Prevents figures from going at top of page.
11419         \@maketitle
11420     \fi
11421     \thispagestyle{plain}\@thanks
11422 \endgroup
11423 \setcounter{footnote}{0}%
11424 \global\let\thanks\relax
11425 \global\let\maketitle\relax
11426 \global\let\@maketitle\relax
11427 \global\let\@thanks\@empty
11428 \global\let\@author\@empty
11429 \global\let\@date\@empty
11430 \global\let\@title\@empty
11431 \global\let\title\relax
11432 \global\let\author\relax
11433 \global\let\date\relax
11434 \global\let\and\relax
11435 }
11436 \def\@maketitle{%
11437     \newpage
11438     \null
11439     \vskip 2em%
11440     \begin{center}%
11441     \let \footnote \thanks
11442     {\LARGE \@title \par}%
11443     \vskip 1.5em%
11444     {\large
11445     \lineskip .5em%
11446     \begin{tabular}[t]{c}%
11447         \@author
11448     \end{tabular}\par}%
11449     \vskip 1em%
11450     {\large \@date}%
11451     \end{center}%
11452     \par
11453     \vskip 1.5em}
11454 \fi
11455 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11456 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11457 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11458 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11459 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11460 \if@titlepage
11461 \renewcommand\maketitle{\begin{titlepage}%
11462 \let\footnotesize\small
11463 \let\right@footnoterule\relax

```



```

11464 \let\left@footnoterule\relax
11465 \let\textwidth@footnoterule\relax
11466 \let \footnote \thanks
11467 \let \LTRfootnote \LTRthanks
11468 \let \RTLfootnote \RTLthanks
11469 \null\vfil
11470 \vskip 60\p@
11471 \begin{center}%
11472   {\LARGE \@title \par}%
11473   \vskip 3em%
11474   {\large
11475     \lineskip .75em%
11476     \begin{tabular}[t]{c}%
11477       \@author
11478     \end{tabular}\par}%
11479     \vskip 1.5em%
11480     {\large \@date \par}%           % Set date in \large size.
11481 \end{center}\par
11482 \@thanks
11483 \vfil\null
11484 \end{titlepage}%
11485 \setcounter{footnote}{0}%
11486 \global\let\thanks\relax
11487 \global\let\LTRthanks\relax
11488 \global\let\RTLthanks\relax
11489 \global\let\maketitle\relax
11490 \global\let\@thanks\@empty
11491 \global\let\@author\@empty
11492 \global\let\@date\@empty
11493 \global\let\@title\@empty
11494 \global\let\title\relax
11495 \global\let\author\relax
11496 \global\let\date\relax
11497 \global\let\and\relax
11498 }
11499 \else
11500 \renewcommand\maketitle{\par
11501   \begingroup
11502     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11503     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11504     \long\def\@makefntext##1{\parindent 1em\noindent
11505       \hb@xt@1.8em{%
11506         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11507     \if@twocolumn
11508       \ifnum \col@number=\@ne
11509         \@maketitle
11510       \else
11511         \twocolumn[\@maketitle]%
11512       \fi
11513     \else
11514       \newpage
11515       \global\@topnum\z@   % Prevents figures from going at top of page.
11516       \@maketitle
11517     \fi

```



```

11518 \thispagestyle{plain}\@thanks
11519 \endgroup
11520 \setcounter{footnote}{0}%
11521 \global\let\thanks\relax
11522 \global\let\LTRthanks\relax
11523 \global\let\RTLthanks\relax
11524 \global\let\maketitle\relax
11525 \global\let\@maketitle\relax
11526 \global\let\@thanks\@empty
11527 \global\let\@author\@empty
11528 \global\let\@date\@empty
11529 \global\let\@title\@empty
11530 \global\let\title\relax
11531 \global\let\author\relax
11532 \global\let\date\relax
11533 \global\let\and\relax
11534 }
11535 \def\@maketitle{%
11536 \newpage
11537 \null
11538 \vskip 2em%
11539 \begin{center}%
11540 \let \footnote \thanks
11541 \let \LTRfootnote \LTRthanks
11542 \let \RTLfootnote \RTLthanks
11543 {\LARGE \@title \par}%
11544 \vskip 1.5em%
11545 {\large
11546 \lineskip .5em%
11547 \begin{tabular}[t]{c}%
11548 \@author
11549 \end{tabular}\par}%
11550 \vskip 1em%
11551 {\large \@date}%
11552 \end{center}%
11553 \par
11554 \vskip 1.5em}
11555 \fi
11556 \renewcommand*\l@part[2]{%
11557 \ifnum \c@tocdepth >-2\relax
11558 \addpenalty{-\@highpenalty}%
11559 \addvspace{2.25em \@plus\p@}%
11560 \begingroup
11561 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11562 \parfillskip -\@pnumwidth
11563 {\leavevmode
11564 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11565 \nobreak
11566 \global\@nobreaktrue
11567 \everypar{\global\@nobreakfalse\everypar{}}%
11568 \endgroup
11569 \fi}
11570 \renewcommand\theequation
11571 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}

```




```

11572 \renewcommand \thefigure
11573     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11574 \renewcommand \thetable
11575     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11576 \renewcommand \thechapter {\@arabic\c@chapter}
11577 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11578 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11579 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11580 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11581 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11582 \def\@makechapterhead#1{%
11583     \vspace*{50\p@}%
11584     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11585     \ifnum \c@secnumdepth >\m@ne
11586         \if@mainmatter
11587             \huge\bfseries \@chapapp\space \thechapter
11588             \par\nobreak
11589             \vskip 20\p@
11590         \fi
11591         \fi
11592         \interlinepenalty\@M
11593         \Huge \bfseries #1\par\nobreak
11594         \vskip 40\p@
11595     }}
11596
11597 \def\@makeschapterhead#1{%
11598     \vspace*{50\p@}%
11599     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11600     \normalfont
11601     \interlinepenalty\@M
11602     \Huge \bfseries #1\par\nobreak
11603     \vskip 40\p@
11604     }}
11605 \renewcommand\backmatter{%
11606     \if@openright
11607         \cleardoublepage
11608     \else
11609         \clearpage
11610     \fi
11611     \@mainmatterfalse}
11612 \renewenvironment{thebibliography}[1]
11613     {\chapter*{\bibname
11614         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11615     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11616     \bidi@thebibliography@font@hook%
11617     \list{\@biblabel{\@arabic\c@enumiv}}%
11618         {\settowidth\labelwidth{\@biblabel{#1}}%
11619         \leftmargin\labelwidth
11620         \advance\leftmargin\labelsep
11621         \@openbib@code
11622         \usecounter{enumiv}%
11623         \let\p@enumiv\@empty
11624         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11625     \sloppy

```



```

11626     \clubpenalty4000
11627     \@clubpenalty \clubpenalty
11628     \widowpenalty4000%
11629     \sfcode`.\@m}
11630     {\def\@noitemerr
11631       {\@latex@warning{Empty `thebibliography' environment}}}%
11632     \endlist}

```

85 File extletter-xetex-bidi.def

```

11633 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11634 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11635   \thispagestyle{firstpage}%
11636   {\ifRTL\raggedright\else\raggedleft\fi \@date\par}%
11637   \else % home address
11638     \thispagestyle{empty}%
11639     {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11640       \fromaddress \*[2\parskip]%
11641       \@date \end{tabular}\par}%
11642   \fi
11643   \vspace{2\parskip}%
11644   {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11645   \vspace{2\parskip}%
11646   #1\par\nobreak}
11647 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11648   \stopbreaks
11649   \noindent
11650   \ifx\@empty\fromaddress\else
11651     \hspace*{\longindentation}\fi
11652   \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11653     \ignorespaces #1\[\[6\medskipamount]}%
11654     \ifx\@empty\fromsig
11655       \fromname
11656     \else \fromsig \fi\strut}%
11657   \par}
11658 \renewcommand\left@footnoterule{%
11659   \kern-\p@
11660   \hrule \@width .4\columnwidth
11661   \kern .6\p@}
11662 \renewcommand\right@footnoterule{%
11663   \kern-\p@
11664   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11665   \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11666 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11667 \newdimen\bidi@columnwidth
11668 \def\bidi@floathook{%
11669   \bidi@columnwidth\columnwidth
11670 }
11671 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11672 \if@bidi@csundef{\ifHy@hyperfootnotes}{-}{-%
11673 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{-%

```



```

11674 \ifHy@hyperfootnotes
11675 \let@@H@@footnotetext\@footnotetext
11676 \let@@HLTR@@LTRfootnotetext\@LTRfootnotetext
11677 \let@@HRTL@@RTLfootnotetext\@RTLfootnotetext
11678 \let@@H@@mpfootnotetext\@mpfootnotetext
11679 \let@@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11680 \let@@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11681 \fi
11682 }%
11683 }%
11684 }
11685 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11686 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11687 \if@bidi@csundef{HLTR@@LTRfootnotetext}{-}{%
11688 \ifHy@hyperfootnotes
11689 \let\H@@footnotetext\@footnotetext
11690 \let\@footnotetext\@@H@@footnotetext
11691 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11692 \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
11693 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11694 \let\@RTLfootnotetext\@@HRTL@@RTLfootnotetext
11695 \let\H@@mpfootnotetext\@mpfootnotetext
11696 \let\@mpfootnotetext\@@H@@mpfootnotetext
11697 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11698 \let\@mpLTRfootnotetext\@@HLTR@@mpLTRfootnotetext
11699 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11700 \let\@mpRTLfootnotetext\@@HRTL@@mpRTLfootnotetext
11701 \fi
11702 }%
11703 }%
11704 }
11705 \let\autofooterule\relax
11706 \let\rightfootnoterule\relax
11707 \let\leftfootnoterule\relax
11708 \let\textwidthfootnoterule\relax
11709 \let\LRfootnoterule\relax
11710 \def\footnoterule{\kern-3\p@
11711 \hrule \@width \columnwidth \kern 2.6\p@}
11712 \newcommand{\@preamnormalfmt}{%
11713 \parindent 1em%
11714 \noindent
11715 }
11716 \newcommand{\@normalfootfmt}[1]{%
11717 \@preamnormalfmt
11718 \footfootmark
11719 \rule{z@\footnotesep}{\ignorespaces{\foottextfont #1}%
11720 \@finalstrut\strutbox
11721 }
11722 \newcommand{\@normalRTLfootfmt}[1]{%
11723 \@preamnormalfmt
11724 \RTLfootfootmark
11725 \rule{z@\footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
11726 \@finalstrut\strutbox
11727 }

```



```

11728 \newcommand{\@normalLTRfootfmt}[1]{%
11729   \@preamnormalfmt
11730   \LTRfootfootmark
11731   \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
11732   \@finalstrut\strutbox
11733 }
11734 \renewcommand{\@footnotetext}[1]{%
11735   \insert\footins{%
11736     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11737     \def\baselinestretch{\m@m@footnote@spacing}%
11738     \reset@font
11739     \foottextfont
11740     \@preamfntext
11741     \hsize\columnwidth
11742     \protected@edef\@currentlabel{%
11743       \csname p@footnote\endcsname\@thefnmark}%
11744     \color@begingroup
11745     \@normalfootfmt{#1}%
11746     \color@endgroup}%
11747     \m@mmf@prepare}
11748 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11749   \bidi@step@absolute@footnote@count
11750   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11751   \insert\footins{%
11752     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11753     \def\baselinestretch{\m@m@footnote@spacing}%
11754     \reset@font
11755     \foottextfont
11756     \@preamfntext
11757     \hsize\columnwidth
11758     \protected@edef\@currentlabel{%
11759       \csname p@footnote\endcsname\@thefnmark}%
11760     \color@begingroup
11761     \@normalfootfmt{#1}%
11762     \color@endgroup}%
11763     \m@mmf@prepare}
11764 }
11765 \renewcommand{\@RTLfootnotetext}[1]{%
11766   \insert\footins{%
11767     \@RTLtrue%
11768     \def\baselinestretch{\m@m@footnote@spacing}%
11769     \reset@font
11770     \RTLfoottextfont
11771     \@preamfntext
11772     \hsize\columnwidth
11773     \protected@edef\@currentlabel{%
11774       \csname p@footnote\endcsname\@thefnmark}%
11775     \color@begingroup
11776     \@normalRTLfootfmt{#1}%
11777     \color@endgroup}%
11778     \m@mmf@prepare}
11779 \newcommand{\@bidi@bidiold@RTLfootnotetext}[1]{%
11780   \bidi@step@absolute@footnote@count
11781   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l

```



```

11782 \insert\footins{%
11783 \RTLtrue%
11784 \def\baselinestretch{\m@m@footnote@spacing}%
11785 \reset@font
11786 \RTLfoottextfont
11787 \@preamftext
11788 \hsize\columnwidth
11789 \protected@edef\@currentlabel{%
11790 \csname p@footnote\endcsname\@thefnmark}%
11791 \color@begingroup
11792 \@normalRTLfootfmt{#1}%
11793 \color@endgroup}%
11794 \m@mmf@prepare
11795 }
11796 \renewcommand{\LTRfootnotetext}[1]{%
11797 \insert\footins{%
11798 \RTLfalse%
11799 \def\baselinestretch{\m@m@footnote@spacing}%
11800 \reset@font
11801 \LTRfoottextfont
11802 \@preamftext
11803 \hsize\columnwidth
11804 \protected@edef\@currentlabel{%
11805 \csname p@footnote\endcsname\@thefnmark}%
11806 \color@begingroup
11807 \@normalLTRfootfmt{#1}%
11808 \color@endgroup}%
11809 \m@mmf@prepare}
11810 \renewcommand{\mpfootnotetext}[1]{%
11811 \global\setbox\@mpfootins\vbox{%
11812 \unvbox\@mpfootins
11813 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
11814 \def\baselinestretch{\m@m@footnote@spacing}%
11815 \reset@font%
11816 \foottextfont \hsize\columnwidth \@parboxrestore
11817 \protected@edef\@currentlabel{%
11818 \csname p@mpfootnote\endcsname\@thefnmark}%
11819 \color@begingroup
11820 \@normalfootfmt{#1}%
11821 \color@endgroup}}
11822 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11823 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11824 \global\setbox\@mpfootins\vbox{%
11825 \unvbox\@mpfootins
11826 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi%
11827 \def\baselinestretch{\m@m@footnote@spacing}%
11828 \reset@font%
11829 \foottextfont \hsize\columnwidth \@parboxrestore
11830 \protected@edef\@currentlabel{%
11831 \csname p@mpfootnote\endcsname\@thefnmark}%
11832 \color@begingroup
11833 \@normalfootfmt{#1}%
11834 \color@endgroup}}
11835 \renewcommand{\mpLTRfootnotetext}[1]{%

```



```

11836 \global\setbox\@mpfootins\vbox{%
11837   \unvbox\@mpfootins
11838   \@RTLfalse
11839   \def\baselinestretch{\m@m@footnote@spacing}%
11840   \reset@font%
11841   \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11842   \protected@edef\@currentlabel{%
11843     \csname p@mpfootnote\endcsname\@thefnmark}%
11844   \color@begingroup
11845     \@normalLTRfootfmt{#1}%
11846   \color@endgroup}}
11847 \renewcommand{\@mpRTLfootnotetext}[1]{%
11848   \global\setbox\@mpfootins\vbox{%
11849     \unvbox\@mpfootins
11850     \@RTLtrue
11851     \def\baselinestretch{\m@m@footnote@spacing}%
11852     \reset@font%
11853     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11854     \protected@edef\@currentlabel{%
11855       \csname p@mpfootnote\endcsname\@thefnmark}%
11856     \color@begingroup
11857       \@normalRTLfootfmt{#1}%
11858     \color@endgroup}}
11859 \newcommand{\@bidi@bidiold@mpRTLfootnotetext}[1]{%
11860   \@bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11861   \global\setbox\@mpfootins\vbox{%
11862     \unvbox\@mpfootins
11863     \@RTLtrue
11864     \def\baselinestretch{\m@m@footnote@spacing}%
11865     \reset@font%
11866     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11867     \protected@edef\@currentlabel{%
11868       \csname p@mpfootnote\endcsname\@thefnmark}%
11869     \color@begingroup
11870       \@normalRTLfootfmt{#1}%
11871     \color@endgroup}}
11872 \let\m@mold@footnotetext\@footnotetext
11873 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11874 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11875 \let\m@mold@mpfootnotetext\@mpfootnotetext
11876 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11877 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11878 \bidi@ensure@newcommand{\normalfootnotes}{%
11879   \@bidi@before@Hy@hyperfootnotes
11880   \let\@footnotetext\m@mold@footnotetext
11881   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11882   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11883   \let\@mpfootnotetext\m@mold@mpfootnotetext
11884   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11885   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11886   \@bidi@after@Hy@hyperfootnotes
11887   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11888 }
11889 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}

```



```

11890 \bidi@ensure@newcommand*\setSingleSpace}[1]{%
11891   \def\m@m@singlespace{#1}%
11892   \def\m@m@footnote@spacing{#1}%
11893   \def\m@m@float@spacing{#1} %
11894 }
11895 \setSingleSpace{1}
11896 \bidi@ensure@newcommand*\multiplefootnotemarker}{3sp}
11897 \bidi@ensure@newcommand*\m@mmf@prepare}{%
11898   \kern-\multiplefootnotemarker
11899   \kern\multiplefootnotemarker\relax}
11900 \bidi@ensure@newlength{\footmarkwidth}
11901 \bidi@ensure@newcommand*\footmarkstyle}[1]{\def\footscript##1{#1}}
11902 \bidi@ensure@newcommand*\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11903 \bidi@ensure@newcommand*\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11904 \bidi@ensure@newcommand{\footfootmark}{%
11905   \ifdim\footmarkwidth < \z@
11906     \llap{\hb@xt@ -\footmarkwidth{%
11907       \hss\normalfont\footscript{\@thefnmark}}%
11908       \hspace*{-\footmarkwidth}}}%
11909   \else
11910     \ifdim\footmarkwidth = \z@
11911       {\normalfont\footscript{\@thefnmark}}%
11912     \else
11913       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11914     \fi
11915   \fi}
11916 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11917   \ifdim\footmarkwidth < \z@
11918     \llap{\hb@xt@ -\footmarkwidth{%
11919       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11920       \hspace*{-\footmarkwidth}}}%
11921   \else
11922     \ifdim\footmarkwidth = \z@
11923       {\normalfont\LTRfootscript{\@thefnmark}}%
11924     \else
11925       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11926     \fi
11927   \fi}
11928 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11929   \ifdim\footmarkwidth < \z@
11930     \llap{\hb@xt@ -\footmarkwidth{%
11931       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11932       \hspace*{-\footmarkwidth}}}%
11933   \else
11934     \ifdim\footmarkwidth = \z@
11935       {\normalfont\RTLfootscript{\@thefnmark}}%
11936     \else
11937       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11938     \fi
11939   \fi}
11940 \footmarkstyle{\textsuperscript{#1}}
11941 \LTRfootmarkstyle{\textsuperscript{#1}}
11942 \RTLfootmarkstyle{\textsuperscript{#1}}
11943 \newcommand*\bidi@normal@footmarkwidth}{%

```



```

11944 \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11945 }
11946 \newcommand*\bidi@star@footmarkwidth}{%
11947 \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11948 }
11949 \bidi@normal@footmarkwidth
11950 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11951 \bidi@ensure@newcommand*\extrafeetins}{%
11952 \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11953 \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11954 \bidi@joinfootnotes\@bidi@copyins@{ }\@unvbox\@bidi@copyins@}%
11955 \extrafeetinshook}
11956 \bidi@ensure@newcommand{\extrafeetinshook}{ }
11957 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11958 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11959 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11960 \bidi@ensure@newlength{\footinsdim}
11961 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11962 \bidi@ensure@newcommand{\@preamfntext}{%
11963 \interlinepenalty\interfootnotelinepenalty
11964 \floatingpenalty \@MM
11965 \splittopskip=\footnotesep
11966 \splitmaxdepth=\dp\strutbox
11967 \@parboxrestore}
11968 \def\bidi@ifmulticol#1#2{\@tempswafalse
11969 \ifnum\col@number>\@one
11970 \ifnum\count\footins>1999 \@tempswatruel \fi
11971 \fi
11972 \if@tempswa #1\else #2\fi
11973 }
11974 \def\bidi@joinfootnotes#1#2#3{%
11975 \ifvoid#1
11976 \else
11977 \@tempskipa\skip#1%
11978 \bidi@ifmulticol{\divide\@tempskipa\col@number}{ }%
11979 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11980 \bidi@removexfootskip
11981 \ifvoid\footins
11982 \global\setbox\footins\vbox{#2#3}%
11983 \else
11984 \global\setbox\footins\vbox{%
11985 \unvbox\footins
11986 \bidi@footskip
11987 #2#3%
11988 }%
11989 \fi
11990 \fi
11991 }
11992 \def\bidi@reinsertfootnote#1#2#3{%
11993 \ifvoid#1%
11994 \else
11995 \insert\footins{#2#3}%
11996 \fi
11997 }

```




```

11998 \def\ bidi@joinmpfootnotes#1#2#3{%
11999   \ifvoid#1
12000   \else
12001     \@tempkipa\skip#1%
12002     \bidi@ifmulticol{\divide\@tempkipa\col@number}{}%
12003     \edef\bidi@footskip{\vskip\the\@tempkipa\relax}%
12004     \bidi@removexfootskip
12005     \ifvoid\@mpfootins
12006       \global\setbox\@mpfootins\vbox{#2#3}%
12007     \else
12008       \global\setbox\@mpfootins\vbox{%
12009         \unvbox\@mpfootins
12010         \bidi@footskip
12011         #2#3%
12012       }%
12013     \fi
12014   \fi
12015 }
12016 \newcount\bidi@absolutepage@count
12017 \bidi@absolutepage@count\@ne
12018 \newcount\bidi@absolutefootnote@count
12019 \bidi@AfterOutputBoxOutputPage{%
12020   \if@filesw
12021     \edef\@tempa{%
12022       \write\@auxout{%
12023         \string\bidi@finalfootnoteperpage%
12024         {\noexpand\number\noexpand\bidi@absolutepage@count}%
12025         {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12026       }%
12027     }%
12028     \@tempa
12029   \fi
12030 }
12031 \bidi@AtEndOutputPage{%
12032   \global\advance\bidi@absolutepage@count\@ne
12033 }
12034 \newcommand*\bidi@finalfootnoteperpage}[2]{%
12035   \expandafter\gdef\csname bidi@currentpagefinalfootnote@#1\endcsname{#2}%
12036 }
12037 \newif\if@bidi@finalfootnoteperpage
12038 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12039   \if@bidi@csundef{bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count}{%
12040     \global\@bidi@finalfootnoteperpagetrue
12041   }{%
12042     \global\@bidi@finalfootnoteperpagefalse
12043     \ifnum\bidi@absolutefootnote@count=\bidi@csuse{bidi@currentpagefinalfootnote@@\number\bidi@
12044       #1%
12045     \else
12046       #2%
12047     \fi
12048   }%
12049 }
12050 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12051   \bidi@ifafterfinalfootnoteperpage{%

```



```

12052 \bidi@reinsertfootnote{#1}{#2}{#3}%
12053 }{%
12054 }%
12055 }
12056 \newcommand*{\bidi@step@absolutefootnote@count}{%
12057 \global\advance\bidi@absolutefootnote@count\@ne
12058 }
12059 \bidi@AfterEndDocumentCheckLabelsRerun{%
12060 \if@bidi@finalfootnoteperpage
12061 \PackageWarningNoLine{bidi}{%
12062 The absolute final footnote is not
12063 known on every page of your
12064 document. Rerun TeX to get the
12065 absolute final footnote on every page
12066 of your document%
12067 }%
12068 \fi
12069 }
12070 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12071 \extrafeetminihook}
12072 \bidi@ensure@newcommand{\extrafeetendmini}{%
12073 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12074 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12075 \extrafeetendminihook}
12076 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12077 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12078 \def\endminipage{%
12079 \par
12080 \unskip
12081 \m@mdoextrafeetendmini
12082 \ifvoid\@mpfootins
12083 \else
12084 \vskip\skip\@mpfootins
12085 \normalcolor
12086 \footnoterule
12087 \unvbox\@mpfootins
12088 \fi
12089 \@minipagefalse
12090 \color@endgroup
12091 \egroup
12092 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12093 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12094 \@namedef{@footstart#1}{%
12095 \leftskip=\z@
12096 \rightskip=\z@
12097 \parindent=\z@
12098 }%
12099 }
12100 \newinsert\footinsv@r
12101 \skip\footinsv@r\skip\footins
12102 \count\footinsv@r=1000 % no magnification
12103 \dimen\footinsv@r=\footinsdim
12104 \m@make@footstart{v@r}
12105 \newinsert\footinsv@l

```



```

12106 \skip\footinsv@l\skip\footins
12107 \count\footinsv@l=1000 % no magnification
12108 \dimen\footinsv@l=\footinsdim
12109 \m@make@footstart{v@l}
12110 \bidi@ensure@newcommand{\@footgroupv@r}{ }
12111 \newinsert\@mpfootinsv@r
12112 \skip\@mpfootinsv@r\skip\@mpfootins
12113 \newinsert\@mpfootinsv@l
12114 \skip\@mpfootinsv@l\skip\@mpfootins
12115 \bidi@ensure@newcommand{\mp@footgroupv@r}{ }
12116 \newcount\m@m@k \newdimen\m@m@h
12117 \bidi@ensure@newcommand*{\m@m@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12118 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12119 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12120 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12121 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12122 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12123 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12124 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12125 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12126 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12127 \setbox2 \vsplit0 to \dimen0
12128 \unvbox2 }
12129 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12130 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12131 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12132 \@bidi@before@Hy@hyperfootnotes
12133 \let\@footnotetext\@twocolfootnotetext
12134 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12135 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12136 \dimen\footinsv@r=2\footinsdim
12137 \count\footinsv@r=500\relax
12138 \m@make@twocol@footgroup{v@r}%
12139 \let\@footgroupv@r\@twocol@footgroupv@r
12140 \dimen\footinsv@l=2\footinsdim
12141 \count\footinsv@l=500\relax
12142 \bidi@make@twocol@LTRfootgroup{v@l}%
12143 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12144 \let\@mpfootnotetext\@mptwocolfootnotetext
12145 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12146 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12147 \@bidi@after@Hy@hyperfootnotes
12148 \m@make@mptwocol@footgroup{v@r}%
12149 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12150 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12151 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12152 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12153 }
12154 \newcommand{\TwoColumnFootnotes}{%
12155 \@namedef{foottextfontv@r}{\foottextfont}%
12156 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12157 \@bidi@before@Hy@hyperfootnotes
12158 \let\@footnotetext\@TwoColfootnotetext
12159 \let\@LTRfootnotetext\@TwoCollTRfootnotetext

```



```

12160 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12161 \dimen\footinsv@r=2\footinsdim
12162 \count\footinsv@r=500\relax
12163 \m@make@twocol@footgroup{v@r}%
12164 \let\@footgroupv@r\@twocol@footgroupv@r
12165 \dimen\footinsv@l=2\footinsdim
12166 \count\footinsv@l=500\relax
12167 \bidi@make@twocol@LTRfootgroup{v@l}%
12168 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12169 \let\@mpfootnotetext\@mpTwoColfootnotetext
12170 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12171 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12172 \@bidi@after@Hy@hyperfootnotes
12173 \m@make@emptwocol@footgroup{v@r}%
12174 \let\mp@footgroupv@r\@emptwocol@footgroupv@r
12175 \bidi@make@emptwocol@LTRfootgroup{v@l}%
12176 \let\mp@LTRfootgroupv@l\@emptwocol@LTRfootgroupv@l
12177 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12178 }
12179 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12180 \ifRTL@footnote
12181 \footinsv@r
12182 \else
12183 \footinsv@l
12184 \fi
12185 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12186 \def\baselinestretch{\m@footnote@spacing}%
12187 \reset@font\foottextfont
12188 \@preamfntext
12189 \protected@edef\@currentlabel{%
12190 \csname p@footnote\endcsname\@thefnmark}%
12191 \color@begingroup
12192 \@twocolfootfmt{#1}%
12193 \color@endgroup}%
12194 \m@mmf@prepare}
12195 \newcommand{\@TwoColfootnotetext}[1]{%
12196 \bidi@step@absolute@footnote@count
12197 \ifRTL@footnote
12198 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12199 \else
12200 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12201 \fi
12202 \global\setbox
12203 \ifRTL@footnote
12204 \footinsv@r
12205 \else
12206 \footinsv@l
12207 \fi
12208 \vbox{%
12209 \unvbox
12210 \ifRTL@footnote
12211 \footinsv@r
12212 \else
12213 \footinsv@l

```



```

12214 \fi
12215 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12216 \def\baselinestretch{\m@m@footnote@spacing}%
12217 \reset@font\foottextfont
12218 \@premfntext
12219 \protected@edef\@currentlabel{%
12220   \csname p@footnote\endcsname\@thefnmark}%
12221 \color@begingroup
12222   \@twocolfootfmt{#1}%
12223 \color@endgroup}%
12224 \m@mmf@prepare
12225 \if@RTL@footnote
12226   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12227 \else
12228   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12229 \fi
12230 }
12231 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12232 \def\baselinestretch{\m@m@footnote@spacing}%
12233 \reset@font\LTRfoottextfont
12234 \@premfntext
12235 \protected@edef\@currentlabel{%
12236   \csname p@footnote\endcsname\@thefnmark}%
12237 \color@begingroup
12238   \@twocolLTRfootfmt{#1}%
12239 \color@endgroup}%
12240 \m@mmf@prepare}
12241 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12242   \bidi@step@absolute@footnote@count
12243   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12244   \global\setbox\footinsv@l\vbox{%
12245     \unvbox\footinsv@l
12246     \@RTLfalse
12247     \def\baselinestretch{\m@m@footnote@spacing}%
12248     \reset@font\LTRfoottextfont
12249     \@premfntext
12250     \protected@edef\@currentlabel{%
12251       \csname p@footnote\endcsname\@thefnmark}%
12252     \color@begingroup
12253       \@twocolLTRfootfmt{#1}%
12254     \color@endgroup}%
12255     \m@mmf@prepare
12256     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12257   }
12258   \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12259 \def\baselinestretch{\m@m@footnote@spacing}%
12260 \reset@font\RTLfoottextfont
12261 \@premfntext
12262 \protected@edef\@currentlabel{%
12263   \csname p@footnote\endcsname\@thefnmark}%
12264 \color@begingroup
12265   \@twocolRTLfootfmt{#1}%
12266 \color@endgroup}%
12267 \m@mmf@prepare}

```



```

12268 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12269   \bidi@step@absolute@footnote@count
12270 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12271   \global\setbox\footinsv@r\vbox{%
12272     \unvbox\footinsv@r
12273     \RTLtrue
12274     \def\baselinestretch{\m@m@footnote@spacing}%
12275     \reset@font\RTLfoottextfont
12276     \@preamftext
12277     \protected@edef\@currentlabel{%
12278       \csname p@footnote\endcsname\@thefnmark}%
12279     \color@begingroup
12280       \@twocolRTLfootfmt{#1}%
12281     \color@endgroup}%
12282     \m@mmf@prepare
12283 \bidi@reinsert@final@footnote@perpage\footinsv@r\@footstartv@r\@footgroupv@r
12284 }
12285 \bidi@ensure@newcommand{\@preamtwofmt}{%
12286   \hsize .45\hsize
12287   \parindent=\z@
12288   \tolerance=5000\relax
12289   \leavevmode}
12290 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12291   \@preamtwofmt
12292   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12293 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12294   \@preamtwofmt
12295   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12296 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12297   \@preamtwofmt
12298   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12299 \bidi@ensure@newcommand{\@emptwocolfootnotetext}[1]{%
12300   \global\setbox
12301     \if@RTL@footnote
12302     \@mpfootinsv@r
12303   \else
12304     \@mpfootinsv@l
12305   \fi
12306   \vbox{%
12307     \unvbox
12308     \if@RTL@footnote
12309     \@mpfootinsv@r
12310   \else
12311     \@mpfootinsv@l
12312   \fi
12313     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
12314     \def\baselinestretch{\m@m@footnote@spacing}%
12315     \reset@font\foottextfont
12316     \hsize\columnwidth \@parboxrestore
12317     \protected@edef\@currentlabel{%
12318       \csname p@mpfootnote\endcsname\@thefnmark}%
12319     \color@begingroup
12320       \@twocolfootfmt{#1}%
12321     \color@endgroup}%

```



```

12322 \m@mmf@prepare}
12323 \newcommand{\@mpTwoColfootnotetext}[1]{%
12324   \if@RTL@footnote
12325     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12326   \else
12327     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12328   \fi
12329   \global\setbox
12330     \if@RTL@footnote
12331     \@mpfootinsv@r
12332   \else
12333     \@mpfootinsv@l
12334   \fi
12335   \vbox{%
12336     \unvbox
12337     \if@RTL@footnote
12338     \@mpfootinsv@r
12339   \else
12340     \@mpfootinsv@l
12341   \fi
12342   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12343   \def\baselinestretch{\m@m@footnote@spacing}%
12344   \reset@font\foottextfont
12345   \hsize\columnwidth \@parboxrestore
12346   \protected@edef\@currentlabel{%
12347     \csname p@mpfootnote\endcsname\@thefnmark}%
12348   \color@begingroup
12349     \@twocolfootfmt{#1}%
12350   \color@endgroup}%
12351 \m@mmf@prepare}
12352 \bidi@ensure@newcommand{\@mptwoCOLLTRfootnotetext}[1]{%
12353   \global\setbox\@mpfootinsv@l\vbox{%
12354     \unvbox\@mpfootinsv@l
12355     \@RTLfalse
12356     \def\baselinestretch{\m@m@footnote@spacing}%
12357     \reset@font\LTRfoottextfont
12358     \hsize\columnwidth \@parboxrestore
12359     \protected@edef\@currentlabel{%
12360       \csname p@mpfootnote\endcsname\@thefnmark}%
12361     \color@begingroup
12362       \@twocolLTRfootfmt{#1}%
12363     \color@endgroup}%
12364   \m@mmf@prepare}
12365 \newcommand{\@mpTwoCOLLTRfootnotetext}[1]{%
12366   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12367   \global\setbox\@mpfootinsv@l\vbox{%
12368     \unvbox\@mpfootinsv@l
12369     \@RTLfalse
12370     \def\baselinestretch{\m@m@footnote@spacing}%
12371     \reset@font\LTRfoottextfont
12372     \hsize\columnwidth \@parboxrestore
12373     \protected@edef\@currentlabel{%
12374       \csname p@mpfootnote\endcsname\@thefnmark}%
12375   \color@begingroup

```



```

12376 \@twocolLTRfootfmt{#1}%
12377 \color@endgroup}%
12378 \m@mmf@prepare}
12379 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12380 \global\setbox\@mpfootinsv@r\vbox{%
12381 \unvbox\@mpfootinsv@r
12382 \@RTLtrue
12383 \def\baselinestretch{\m@m@footnote@spacing}%
12384 \reset@font\RTLfoottextfont
12385 \hsize\columnwidth \@parboxrestore
12386 \protected@edef\@currentlabel{%
12387 \csname p@mpfootnote@endcsname\@thefnmark}%
12388 \color@begin@group
12389 \@twocolRTLfootfmt{#1}%
12390 \color@endgroup}%
12391 \m@mmf@prepare}
12392 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12393 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12394 \global\setbox\@mpfootinsv@r\vbox{%
12395 \unvbox\@mpfootinsv@r
12396 \@RTLtrue
12397 \def\baselinestretch{\m@m@footnote@spacing}%
12398 \reset@font\RTLfoottextfont
12399 \hsize\columnwidth \@parboxrestore
12400 \protected@edef\@currentlabel{%
12401 \csname p@mpfootnote@endcsname\@thefnmark}%
12402 \color@begin@group
12403 \@twocolRTLfootfmt{#1}%
12404 \color@endgroup}%
12405 \m@mmf@prepare}
12406 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12407 \@namedef{@twocol@footgroup#1}{%
12408 \def\baselinestretch{\m@m@footnote@spacing}%
12409 \hsize\bidi@columnwidth
12410 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12411 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12412 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12413 \@namedef{@twocol@LTRfootgroup#1}{%
12414 \def\baselinestretch{\m@m@footnote@spacing}%
12415 \hsize\bidi@columnwidth
12416 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12417 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12418 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12419 \@namedef{@mptwocol@footgroup#1}{%
12420 \def\baselinestretch{\m@m@footnote@spacing}%
12421 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12422 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12423 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12424 \@namedef{@mptwocol@LTRfootgroup#1}{%
12425 \def\baselinestretch{\m@m@footnote@spacing}%
12426 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12427 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12428 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12429 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```




```

12430 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
12431 \@bidi@before@Hy@hyperfootnotes
12432 \let\@footnotetext\@threecolfootnotetext
12433 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12434 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12435 \dimen\footinsv@r=3\footinsdim
12436 \count\footinsv@r=333\relax
12437 \m@make@threecol@footgroup{v@r}%
12438 \let\@footgroupv@r\@threecol@footgroupv@r
12439 \dimen\footinsv@l=3\footinsdim
12440 \count\footinsv@l=333\relax
12441 \bidi@make@threecol@LTRfootgroup{v@l}%
12442 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12443 \let\@mpfootnotetext\@mpthreecolfootnotetext
12444 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12445 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12446 \@bidi@after@Hy@hyperfootnotes
12447 \m@make@mpthreecol@footgroup{v@r}%
12448 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12449 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12450 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12451 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12452 }
12453 \newcommand{\ThreeColumnFootnotes}{%
12454 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12455 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12456 \@bidi@before@Hy@hyperfootnotes
12457 \let\@footnotetext\@ThreeColfootnotetext
12458 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12459 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12460 \dimen\footinsv@r=3\footinsdim
12461 \count\footinsv@r=333\relax
12462 \m@make@threecol@footgroup{v@r}%
12463 \let\@footgroupv@r\@threecol@footgroupv@r
12464 \dimen\footinsv@l=3\footinsdim
12465 \count\footinsv@l=333\relax
12466 \bidi@make@threecol@LTRfootgroup{v@l}%
12467 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12468 \let\@mpfootnotetext\@mpThreeColfootnotetext
12469 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12470 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12471 \@bidi@after@Hy@hyperfootnotes
12472 \m@make@mpthreecol@footgroup{v@r}%
12473 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12474 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12475 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12476 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12477 }
12478 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12479 \if@RTL@footnote
12480 \footinsv@r
12481 \else
12482 \footinsv@l
12483 \fi

```



```

12484 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12485 \def\baselinestretch{\m@m@footnote@spacing}%
12486 \reset@font\foottextfont
12487 \@preamfntext
12488 \protected@edef\@currentlabel{%
12489 \csname p@footnote\endcsname\@thefnmark}%
12490 \color@begingroup
12491 \@threecolfootfmt{#1}%
12492 \color@endgroup}\m@mmf@prepare}
12493 \newcommand{\@ThreeColfootnotetext}[1]{%
12494 \bidi@step@absolute@footnote@count
12495 \ifRTL@footnote
12496 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12497 \else
12498 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12499 \fi
12500 \global\setbox
12501 \ifRTL@footnote
12502 \footinsv@r
12503 \else
12504 \footinsv@l
12505 \fi
12506 \vbox{%
12507 \unvbox
12508 \ifRTL@footnote
12509 \footinsv@r
12510 \else
12511 \footinsv@l
12512 \fi
12513 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12514 \def\baselinestretch{\m@m@footnote@spacing}%
12515 \reset@font\foottextfont
12516 \@preamfntext
12517 \protected@edef\@currentlabel{%
12518 \csname p@footnote\endcsname\@thefnmark}%
12519 \color@begingroup
12520 \@threecolfootfmt{#1}%
12521 \color@endgroup}\m@mmf@prepare
12522 \ifRTL@footnote
12523 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12524 \else
12525 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12526 \fi
12527 }
12528 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12529 \def\baselinestretch{\m@m@footnote@spacing}%
12530 \reset@font\LTRfoottextfont
12531 \@preamfntext
12532 \protected@edef\@currentlabel{%
12533 \csname p@footnote\endcsname\@thefnmark}%
12534 \color@begingroup
12535 \@threecolLTRfootfmt{#1}%
12536 \color@endgroup}\m@mmf@prepare}
12537 \newcommand{\@ThreeCollTRfootnotetext}[1]{%

```



```

12538 \bidi@step@absolutefootnote@count
12539 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12540 \global\setbox\footinsv@l\vbox{%
12541 \unvbox\footinsv@l
12542 \@RTLfalse
12543 \def\baselinestretch{\m@m@footnote@spacing}%
12544 \reset@font\LTRfoottextfont
12545 \@preamfntext
12546 \protected@edef\@currentlabel{%
12547 \csname p@footnote\endcsname\@thefnmark}%
12548 \color@begingroup
12549 \@threecolLTRfootfmt{#1}%
12550 \color@endgroup}\m@mmf@prepare
12551 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12552 }
12553 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12554 \def\baselinestretch{\m@m@footnote@spacing}%
12555 \reset@font\RTLfoottextfont
12556 \@preamfntext
12557 \protected@edef\@currentlabel{%
12558 \csname p@footnote\endcsname\@thefnmark}%
12559 \color@begingroup
12560 \@threecolRTLfootfmt{#1}%
12561 \color@endgroup}\m@mmf@prepare}
12562 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12563 \bidi@step@absolutefootnote@count
12564 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12565 \global\setbox\footinsv@r\vbox{%
12566 \unvbox\footinsv@r
12567 \@RTLtrue
12568 \def\baselinestretch{\m@m@footnote@spacing}%
12569 \reset@font\RTLfoottextfont
12570 \@preamfntext
12571 \protected@edef\@currentlabel{%
12572 \csname p@footnote\endcsname\@thefnmark}%
12573 \color@begingroup
12574 \@threecolRTLfootfmt{#1}%
12575 \color@endgroup}\m@mmf@prepare
12576 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12577 }
12578 \bidi@ensure@newcommand{\@preamthreefmt}{%
12579 \hspace .3\hspace
12580 \parindent=\z@
12581 \tolerance=5000\relax
12582 \leavevmode}
12583 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12584 \@preamthreefmt
12585 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12586 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12587 \@preamthreefmt
12588 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12589 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12590 \@preamthreefmt
12591 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}

```



```

12592 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12593   \global\setbox
12594     \if@RTL@footnote
12595     \@mpfootinsv@r
12596   \else
12597     \@mpfootinsv@l
12598   \fi
12599   \vbox{%
12600     \unvbox
12601     \if@RTL@footnote
12602     \@mpfootinsv@r
12603   \else
12604     \@mpfootinsv@l
12605   \fi
12606   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12607   \def\baselinestretch{\m@m@footnote@spacing}%
12608   \reset@font\foottextfont
12609   \hsize\columnwidth \@parboxrestore
12610   \protected@edef\@currentlabel{%
12611     \csname p@mpfootnote\endcsname\@thefnmark}%
12612   \color@begingroup
12613     \@threecolfootfmt{#1}%
12614   \color@endgroup}\m@mmf@prepare}
12615 \newcommand{\@mpThreeColfootnotetext}[1]{%
12616   \if@RTL@footnote
12617     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12618   \else
12619     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12620   \fi
12621   \global\setbox
12622     \if@RTL@footnote
12623     \@mpfootinsv@r
12624   \else
12625     \@mpfootinsv@l
12626   \fi
12627   \vbox{%
12628     \unvbox
12629     \if@RTL@footnote
12630     \@mpfootinsv@r
12631   \else
12632     \@mpfootinsv@l
12633   \fi
12634   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12635   \def\baselinestretch{\m@m@footnote@spacing}%
12636   \reset@font\foottextfont
12637   \hsize\columnwidth \@parboxrestore
12638   \protected@edef\@currentlabel{%
12639     \csname p@mpfootnote\endcsname\@thefnmark}%
12640   \color@begingroup
12641     \@threecolfootfmt{#1}%
12642   \color@endgroup}\m@mmf@prepare}
12643 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12644   \global\setbox\@mpfootinsv@l\vbox{%
12645     \unvbox\@mpfootinsv@l

```



```

12646 \RTLfalse
12647 \def\baselinestretch{\m@m@footnote@spacing}%
12648 \reset@font\LTRfoottextfont
12649 \hsize\columnwidth \@parboxrestore
12650 \protected@edef\@currentlabel{%
12651 \csname p@mpfootnote\endcsname\@thefnmark}%
12652 \color@begingroup
12653 \@threecolLTRfootfmt{#1}%
12654 \color@endgroup}\m@mmf@prepare}
12655 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12656 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12657 \global\setbox\@mpfootinsv@l\vbox{%
12658 \unvbox\@mpfootinsv@l
12659 \RTLfalse
12660 \def\baselinestretch{\m@m@footnote@spacing}%
12661 \reset@font\LTRfoottextfont
12662 \hsize\columnwidth \@parboxrestore
12663 \protected@edef\@currentlabel{%
12664 \csname p@mpfootnote\endcsname\@thefnmark}%
12665 \color@begingroup
12666 \@threecolLTRfootfmt{#1}%
12667 \color@endgroup}\m@mmf@prepare}
12668 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12669 \global\setbox\@mpfootinsv@r\vbox{%
12670 \unvbox\@mpfootinsv@r
12671 \RTLtrue
12672 \def\baselinestretch{\m@m@footnote@spacing}%
12673 \reset@font\RTLfoottextfont
12674 \hsize\columnwidth \@parboxrestore
12675 \protected@edef\@currentlabel{%
12676 \csname p@mpfootnote\endcsname\@thefnmark}%
12677 \color@begingroup
12678 \@threecolRTLfootfmt{#1}%
12679 \color@endgroup}\m@mmf@prepare}
12680 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12681 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12682 \global\setbox\@mpfootinsv@r\vbox{%
12683 \unvbox\@mpfootinsv@r
12684 \RTLtrue
12685 \def\baselinestretch{\m@m@footnote@spacing}%
12686 \reset@font\RTLfoottextfont
12687 \hsize\columnwidth \@parboxrestore
12688 \protected@edef\@currentlabel{%
12689 \csname p@mpfootnote\endcsname\@thefnmark}%
12690 \color@begingroup
12691 \@threecolRTLfootfmt{#1}%
12692 \color@endgroup}\m@mmf@prepare}
12693 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12694 \@namedef{\@threecol@footgroup#1}{%
12695 \def\baselinestretch{\m@m@footnote@spacing}%
12696 \hsize\bidi@columnwidth
12697 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12698 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}
12699 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%

```



```

12700 \@namedef{@threecol@LTRfootgroup#1}{%
12701 \def\baselinestretch{\m@footnote@spacing}%
12702 \hsize\bidicolumnwidth
12703 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12704 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12705 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12706 \@namedef{@mpthreecol@footgroup#1}{%
12707 \def\baselinestretch{\m@footnote@spacing}%
12708 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12709 \m@r rigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12710 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12711 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12712 \def\baselinestretch{\m@footnote@spacing}%
12713 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12714 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12715 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12716 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12717 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12718 \@bidi@before@Hy@hyperfootnotes
12719 \let\@footnotetext\@fourcolfootnotetext
12720 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12721 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12722 \dimen\footinsv@r=4\footinsdim
12723 \count\footinsv@r=250\relax
12724 \m@make@fourcol@footgroup{v@r}%
12725 \let\@footgroupv@r\@fourcol@footgroupv@r
12726 \dimen\footinsv@l=4\footinsdim
12727 \count\footinsv@l=250\relax
12728 \bidi@make@fourcol@LTRfootgroup{v@l}%
12729 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12730 \let\@mpfootnotetext\@mpfourcolfootnotetext
12731 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12732 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12733 \@bidi@after@Hy@hyperfootnotes
12734 \m@make@mpfourcol@footgroup{v@r}%
12735 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12736 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12737 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12738 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12739 }
12740 \newcommand{\FourColumnFootnotes}{%
12741 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12742 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12743 \@bidi@before@Hy@hyperfootnotes
12744 \let\@footnotetext\@FourColfootnotetext
12745 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12746 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12747 \dimen\footinsv@r=4\footinsdim
12748 \count\footinsv@r=250\relax
12749 \m@make@fourcol@footgroup{v@r}%
12750 \let\@footgroupv@r\@fourcol@footgroupv@r
12751 \dimen\footinsv@l=4\footinsdim
12752 \count\footinsv@l=250\relax
12753 \bidi@make@fourcol@LTRfootgroup{v@l}%

```



```

12754 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12755 \let\@mpfootnotetext\@mpFourColfootnotetext
12756 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12757 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12758 \@bidi@after@Hy@hyperfootnotes
12759 \m@make@mpfourcol@footgroup{v@r}%
12760 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12761 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12762 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12763 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12764 }
12765 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12766   \ifRTL@footnote
12767     \footinsv@r
12768   \else
12769     \footinsv@l
12770   \fi
12771 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12772 \def\baselinestretch{\m@footnote@spacing}%
12773 \reset@font\foottextfont
12774 \@preamfntext
12775 \protected@edef\@currentlabel{%
12776   \csname p@footnote\endcsname\@thefnmark}%
12777 \color@begingroup
12778   \@fourcolfootfmt{#1}%
12779 \color@endgroup}%
12780 \m@mmf@prepare}
12781 \newcommand{\@FourColfootnotetext}[1]{%
12782 \bidi@step@absolute@footnote@count
12783 \ifRTL@footnote
12784   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12785 \else
12786   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12787 \fi
12788 \global\setbox
12789 \ifRTL@footnote
12790   \footinsv@r
12791 \else
12792   \footinsv@l
12793 \fi
12794 \vbox{%
12795 \unvbox
12796 \ifRTL@footnote
12797   \footinsv@r
12798 \else
12799   \footinsv@l
12800 \fi
12801 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12802 \def\baselinestretch{\m@footnote@spacing}%
12803 \reset@font\foottextfont
12804 \@preamfntext
12805 \protected@edef\@currentlabel{%
12806   \csname p@footnote\endcsname\@thefnmark}%
12807 \color@begingroup

```



```

12808   \@fourcolfootfmt{#1}%
12809 \color@endgroup}%
12810 \m@mmf@prepare
12811 \if@RTL@footnote
12812   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12813 \else
12814   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12815 \fi
12816 }
12817 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12818 \def\baselinestretch{\m@mm@footnote@spacing}%
12819 \reset@font\LTRfoottextfont
12820 \@preamfntext
12821 \protected@edef\@currentlabel{%
12822   \csname p@footnote\endcsname\@thefnmark}%
12823 \color@begingroup
12824   \@fourcolLTRfootfmt{#1}%
12825 \color@endgroup}%
12826 \m@mmf@prepare}
12827 \newcommand{\@FourColLTRfootnotetext}[1]{%
12828 \bidi@step@absolute@footnote@count
12829 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12830 \global\setbox\footinsv@l\vbox{%
12831 \unvbox\footinsv@l
12832 \@RTLfalse%
12833 \def\baselinestretch{\m@mm@footnote@spacing}%
12834 \reset@font\LTRfoottextfont
12835 \@preamfntext
12836 \protected@edef\@currentlabel{%
12837   \csname p@footnote\endcsname\@thefnmark}%
12838 \color@begingroup
12839   \@fourcolLTRfootfmt{#1}%
12840 \color@endgroup}%
12841 \m@mmf@prepare
12842 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12843 }
12844 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12845 \def\baselinestretch{\m@mm@footnote@spacing}%
12846 \reset@font\RTLfoottextfont
12847 \@preamfntext
12848 \protected@edef\@currentlabel{%
12849   \csname p@footnote\endcsname\@thefnmark}%
12850 \color@begingroup
12851   \@fourcolRTLfootfmt{#1}%
12852 \color@endgroup}%
12853 \m@mmf@prepare}
12854 \newcommand{\@FourColRTLfootnotetext}[1]{%
12855 \bidi@step@absolute@footnote@count
12856 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12857 \global\setbox\footinsv@r\vbox{%
12858 \unvbox\footinsv@r
12859 \@RTLtrue
12860 \def\baselinestretch{\m@mm@footnote@spacing}%
12861 \reset@font\RTLfoottextfont

```




```

12862 \@preamfntext
12863 \protected@edef\@currentlabel{%
12864   \csname p@footnote\endcsname\@thefnmark}%
12865 \color@begingroup
12866   \@fourcolRTLfootfmt{#1}%
12867 \color@endgroup}%
12868 \m@mmf@prepare
12869 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12870 }
12871 \bidi@ensure@newcommand{\@preamfourfmt}{%
12872   \hspace .25\hspace
12873   \parindent=\z@
12874   \tolerance=5000\relax
12875   \leavevmode}
12876 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12877   \@preamfourfmt
12878   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12879 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12880   \@preamfourfmt
12881   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12882 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12883   \@preamfourfmt
12884   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12885 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12886   \global\setbox
12887     \if@RTL@footnote
12888     \@mpfootinsv@r
12889   \else
12890     \@mpfootinsv@l
12891   \fi
12892   \vbox{%
12893     \unvbox
12894     \if@RTL@footnote
12895     \@mpfootinsv@r
12896   \else
12897     \@mpfootinsv@l
12898   \fi
12899   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12900   \def\baselinestretch{\m@m@footnote@spacing}%
12901   \reset@font\foottextfont
12902   \hspace\columnwidth \@parboxrestore
12903   \protected@edef\@currentlabel{%
12904     \csname p@mpfootnote\endcsname\@thefnmark}%
12905   \color@begingroup
12906     \@fourcolfootfmt{#1}%
12907   \color@endgroup}%
12908   \m@mmf@prepare}
12909 \newcommand{\@mpFourColfootnotetext}[1]{%
12910   \if@RTL@footnote
12911     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12912   \else
12913     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12914   \fi
12915   \global\setbox

```



```

12916 \if@RTL@footnote
12917 \@mpfootinsv@r
12918 \else
12919 \@mpfootinsv@l
12920 \fi
12921 \vbox{%
12922 \unvbox
12923 \if@RTL@footnote
12924 \@mpfootinsv@r
12925 \else
12926 \@mpfootinsv@l
12927 \fi
12928 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12929 \def\baselinestretch{\m@m@footnote@spacing}%
12930 \reset@font\foottextfont
12931 \hsize\columnwidth \@parboxrestore
12932 \protected@edef\@currentlabel{%
12933 \csname p@mpfootnote\endcsname\@thefnmark}%
12934 \color@begingroup
12935 \@fourcolfootfmt{#1}%
12936 \color@endgroup}%
12937 \m@mmf@prepare}
12938 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12939 \global\setbox\@mpfootinsv@l\vbox{%
12940 \unvbox\@mpfootinsv@l
12941 \@RTLfalse
12942 \def\baselinestretch{\m@m@footnote@spacing}%
12943 \reset@font\LTRfoottextfont
12944 \hsize\columnwidth \@parboxrestore
12945 \protected@edef\@currentlabel{%
12946 \csname p@mpfootnote\endcsname\@thefnmark}%
12947 \color@begingroup
12948 \@fourcolLTRfootfmt{#1}%
12949 \color@endgroup}%
12950 \m@mmf@prepare}
12951 \newcommand{\@mpFourColLTRfootnotetext}[1]{%
12952 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12953 \global\setbox\@mpfootinsv@l\vbox{%
12954 \unvbox\@mpfootinsv@l
12955 \@RTLfalse
12956 \def\baselinestretch{\m@m@footnote@spacing}%
12957 \reset@font\LTRfoottextfont
12958 \hsize\columnwidth \@parboxrestore
12959 \protected@edef\@currentlabel{%
12960 \csname p@mpfootnote\endcsname\@thefnmark}%
12961 \color@begingroup
12962 \@fourcolLTRfootfmt{#1}%
12963 \color@endgroup}%
12964 \m@mmf@prepare}
12965 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12966 \global\setbox\@mpfootinsv@r\vbox{%
12967 \unvbox\@mpfootinsv@r
12968 \@RTLtrue
12969 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12970 \reset@font\RTLfoottextfont
12971 \hsize\columnwidth \@parboxrestore
12972 \protected@edef\@currentlabel{%
12973 \csname p@mpfootnote\endcsname\@thefnmark}%
12974 \color@begingroup
12975 \@fourcolRTLfootfmt{#1}%
12976 \color@endgroup}%
12977 \m@mmf@prepare}
12978 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
12979 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12980 \global\setbox\@mpfootinsv@r\vbox{%
12981 \unvbox\@mpfootinsv@r
12982 \@RTLtrue
12983 \def\baselinestretch{\m@m@footnote@spacing}%
12984 \reset@font\RTLfoottextfont
12985 \hsize\columnwidth \@parboxrestore
12986 \protected@edef\@currentlabel{%
12987 \csname p@mpfootnote\endcsname\@thefnmark}%
12988 \color@begingroup
12989 \@fourcolRTLfootfmt{#1}%
12990 \color@endgroup}%
12991 \m@mmf@prepare}
12992 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12993 \@namedef{\@fourcol@footgroup#1}{%
12994 \def\baselinestretch{\m@m@footnote@spacing}%
12995 \hsize\columnwidth
12996 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12997 \m@r@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12998 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12999 \@namedef{\@fourcol@LTRfootgroup#1}{%
13000 \def\baselinestretch{\m@m@footnote@spacing}%
13001 \hsize\bidi@columnwidth
13002 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13003 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13004 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13005 \@namedef{\@mpfourcol@footgroup#1}{%
13006 \def\baselinestretch{\m@m@footnote@spacing}%
13007 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13008 \m@r@rigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
13009 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13010 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
13011 \def\baselinestretch{\m@m@footnote@spacing}%
13012 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13013 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
13014 \bidi@ensure@newcommand{\@fivecolumnfootnotes}{%
13015 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13016 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13017 \@bidi@before@Hy@hyperfootnotes
13018 \let\@footnotetext\@fivecolfootnotetext
13019 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13020 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13021 \dimen\footinsv@r=5\footinsdim
13022 \count\footinsv@r=200\relax
13023 \m@make@fivecol@footgroup{v@r}%

```



```

13024 \let\@footgroupv@r\@fivecol@footgroupv@r
13025 \dimen\footinsv@l=5\footinsdim
13026 \count\footinsv@l=200\relax
13027 \bidi@make@fivecol@LTRfootgroup{v@l}%
13028 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13029 \let\@mpfootnotetext\@mpfivecolfootnotetext
13030 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13031 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13032 \@bidi@after@Hy@hyperfootnotes
13033 \m@make@mpfivecol@footgroup{v@r}%
13034 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13035 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13036 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13037 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13038 }
13039 \newcommand{\FiveColumnFootnotes}{%
13040 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13041 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13042 \@bidi@before@Hy@hyperfootnotes
13043 \let\@footnotetext\@FiveColfootnotetext
13044 \let\@LTRfootnotetext\@FiveCollLTRfootnotetext
13045 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13046 \dimen\footinsv@r=5\footinsdim
13047 \count\footinsv@r=200\relax
13048 \m@make@fivecol@footgroup{v@r}%
13049 \let\@footgroupv@r\@fivecol@footgroupv@r
13050 \dimen\footinsv@l=5\footinsdim
13051 \count\footinsv@l=200\relax
13052 \bidi@make@fivecol@LTRfootgroup{v@l}%
13053 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13054 \let\@mpfootnotetext\@mpFiveColfootnotetext
13055 \let\@mpLTRfootnotetext\@mpFiveCollLTRfootnotetext
13056 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13057 \@bidi@after@Hy@hyperfootnotes
13058 \m@make@mpfivecol@footgroup{v@r}%
13059 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13060 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13061 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13062 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13063 }
13064 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13065 \if@RTL@footnote
13066 \footinsv@r
13067 \else
13068 \footinsv@l
13069 \fi
13070 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13071 \def\baselinestretch{\m@f@footnote@spacing}%
13072 \reset@font\foottextfont
13073 \@preamfntext
13074 \protected@edef\@currentlabel{%
13075 \csname p@footnote\endcsname\@thefnmark}%
13076 \color@begingroup
13077 \@fivecolfootfmt{#1}%

```



```

13078 \color@endgroup}%
13079 \m@mmf@prepare}
13080 \newcommand{\@FiveColfootnotetext}[1]{%
13081 \bidi@step@absolute@footnote@count
13082 \if@RTL@footnote
13083 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13084 \else
13085 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13086 \fi
13087 \global\setbox
13088 \if@RTL@footnote
13089 \footinsv@r
13090 \else
13091 \footinsv@l
13092 \fi
13093 \vbox{%
13094 \unvbox
13095 \if@RTL@footnote
13096 \footinsv@r
13097 \else
13098 \footinsv@l
13099 \fi
13100 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13101 \def\baselinestretch{\m@mm@footnote@spacing}%
13102 \reset@font\foottextfont
13103 \@preamftext
13104 \protected@edef\@currentlabel{%
13105 \csname p@footnote\endcsname\@thefnmark}%
13106 \color@begingroup
13107 \@fivecolfootfmt{#1}%
13108 \color@endgroup}%
13109 \m@mmf@prepare
13110 \if@RTL@footnote
13111 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13112 \else
13113 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13114 \fi
13115 }
13116 \bidi@ensure@newcommand{\@FiveColLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13117 \def\baselinestretch{\m@mm@footnote@spacing}%
13118 \reset@font\LTRfoottextfont
13119 \@preamftext
13120 \protected@edef\@currentlabel{%
13121 \csname p@footnote\endcsname\@thefnmark}%
13122 \color@begingroup
13123 \@fivecolLTRfootfmt{#1}%
13124 \color@endgroup}%
13125 \m@mmf@prepare}
13126 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13127 \bidi@step@absolute@footnote@count
13128 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13129 \global\setbox\footinsv@l\vbox{%
13130 \unvbox\footinsv@l
13131 \@RTLfalse

```



```

13132 \def\baselinestretch{\m@m@footnote@spacing}%
13133 \reset@font\LTRfoottextfont
13134 \@preamfntext
13135 \protected@edef\@currentlabel{%
13136   \csname p@footnote\endcsname\@thefnmark}%
13137 \color@begingroup
13138   \@fivecolLTRfootfmt{#1}%
13139 \color@endgroup}%
13140 \m@mmf@prepare
13141 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13142 }
13143 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13144 \def\baselinestretch{\m@m@footnote@spacing}%
13145 \reset@font\RTLfoottextfont
13146 \@preamfntext
13147 \protected@edef\@currentlabel{%
13148   \csname p@footnote\endcsname\@thefnmark}%
13149 \color@begingroup
13150   \@fivecolRTLfootfmt{#1}%
13151 \color@endgroup}%
13152 \m@mmf@prepare}
13153 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13154 \bidi@step@absolutefootnote@count
13155 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13156 \global\setbox\footinsv@r\vbox{%
13157 \unvbox\footinsv@r
13158 \@RTLtrue
13159 \def\baselinestretch{\m@m@footnote@spacing}%
13160 \reset@font\RTLfoottextfont
13161 \@preamfntext
13162 \protected@edef\@currentlabel{%
13163   \csname p@footnote\endcsname\@thefnmark}%
13164 \color@begingroup
13165   \@fivecolRTLfootfmt{#1}%
13166 \color@endgroup}%
13167 \m@mmf@prepare
13168 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13169 }
13170 \bidi@ensure@newcommand{\@preamfivefmt}{%
13171 \hspace .2\hspace
13172 \parindent=\z@
13173 \tolerance=5000\relax
13174 \leavevmode}
13175 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13176 \@preamfivefmt
13177 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13178 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13179 \@preamfivefmt
13180 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13181 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13182 \@preamfivefmt
13183 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13184 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13185 \global\setbox

```



```

13186 \ifRTL@footnote
13187 \@mpfootinsv@r
13188 \else
13189 \@mpfootinsv@l
13190 \fi
13191 \vbox{%
13192 \unvbox
13193 \ifRTL@footnote
13194 \@mpfootinsv@r
13195 \else
13196 \@mpfootinsv@l
13197 \fi
13198 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13199 \def\baselinestretch{\m@m@footnote@spacing}%
13200 \reset@font\foottextfont
13201 \hsize\columnwidth \@parboxrestore
13202 \protected@edef\@currentlabel{%
13203 \csname p@mpfootnote\endcsname\@thefnmark}%
13204 \color@begingroup
13205 \@fivecolfootfmt{#1}%
13206 \color@endgroup}%
13207 \m@mmf@prepare}
13208 \newcommand{\@mpFiveColfootnotetext}[1]{%
13209 \ifRTL@footnote
13210 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13211 \else
13212 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13213 \fi
13214 \global\setbox
13215 \ifRTL@footnote
13216 \@mpfootinsv@r
13217 \else
13218 \@mpfootinsv@l
13219 \fi
13220 \vbox{%
13221 \unvbox
13222 \ifRTL@footnote
13223 \@mpfootinsv@r
13224 \else
13225 \@mpfootinsv@l
13226 \fi
13227 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13228 \def\baselinestretch{\m@m@footnote@spacing}%
13229 \reset@font\foottextfont
13230 \hsize\columnwidth \@parboxrestore
13231 \protected@edef\@currentlabel{%
13232 \csname p@mpfootnote\endcsname\@thefnmark}%
13233 \color@begingroup
13234 \@fivecolfootfmt{#1}%
13235 \color@endgroup}%
13236 \m@mmf@prepare}
13237 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13238 \global\setbox\@mpfootinsv@l\vbox{%
13239 \unvbox\@mpfootinsv@l

```



```

13240 \RTLfalse
13241 \def\baselinestretch{\m@m@footnote@spacing}%
13242 \reset@font\LTRfoottextfont
13243 \hsize\columnwidth \@parboxrestore
13244 \protected@edef\@currentlabel{%
13245 \csname p@mpfootnote\endcsname\@thefnmark}%
13246 \color@begingroup
13247 \@fivecolLTRfootfmt{#1}%
13248 \color@endgroup}%
13249 \m@mmf@prepare}
13250 \newcommand{\@mpFiveCollTRfootnotetext}[1]{%
13251 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13252 \global\setbox\@mpfootinsv@l\vbox{%
13253 \unvbox\@mpfootinsv@l
13254 \RTLfalse
13255 \def\baselinestretch{\m@m@footnote@spacing}%
13256 \reset@font\LTRfoottextfont
13257 \hsize\columnwidth \@parboxrestore
13258 \protected@edef\@currentlabel{%
13259 \csname p@mpfootnote\endcsname\@thefnmark}%
13260 \color@begingroup
13261 \@fivecolLTRfootfmt{#1}%
13262 \color@endgroup}%
13263 \m@mmf@prepare}
13264 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13265 \global\setbox\@mpfootinsv@r\vbox{%
13266 \unvbox\@mpfootinsv@r
13267 \RTLtrue
13268 \def\baselinestretch{\m@m@footnote@spacing}%
13269 \reset@font\RTLfoottextfont
13270 \hsize\columnwidth \@parboxrestore
13271 \protected@edef\@currentlabel{%
13272 \csname p@mpfootnote\endcsname\@thefnmark}%
13273 \color@begingroup
13274 \@fivecolRTLfootfmt{#1}%
13275 \color@endgroup}%
13276 \m@mmf@prepare}
13277 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13278 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13279 \global\setbox\@mpfootinsv@r\vbox{%
13280 \unvbox\@mpfootinsv@r
13281 \RTLtrue
13282 \def\baselinestretch{\m@m@footnote@spacing}%
13283 \reset@font\RTLfoottextfont
13284 \hsize\columnwidth \@parboxrestore
13285 \protected@edef\@currentlabel{%
13286 \csname p@mpfootnote\endcsname\@thefnmark}%
13287 \color@begingroup
13288 \@fivecolRTLfootfmt{#1}%
13289 \color@endgroup}%
13290 \m@mmf@prepare}
13291 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13292 \@namedef{@fivecol@footgroup#1}{%
13293 \def\baselinestretch{\m@m@footnote@spacing}%

```




```

13294 \hsize\bidicolumnwidth
13295 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13296 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}
13297 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13298 \@namedef{@fivecol@LTRfootgroup#1}{%
13299 \def\baselinestretch{\m@m@footnote@spacing}%
13300 \hsize\bidicolumnwidth
13301 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13302 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13303 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13304 \@namedef{@mpfivecol@footgroup#1}{%
13305 \def\baselinestretch{\m@m@footnote@spacing}%
13306 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13307 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13308 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13309 \@namedef{@mpfivecol@LTRfootgroup#1}{%
13310 \def\baselinestretch{\m@m@footnote@spacing}%
13311 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13312 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13313 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13314 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13315 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13316 \@bidi@before@Hy@hyperfootnotes
13317 \let@footnotetext@sixcolfootnotetext
13318 \let@LTRfootnotetext@sixcolLTRfootnotetext
13319 \let@RTLfootnotetext@sixcolRTLfootnotetext
13320 \dimen\footinsv@r=6\footinsdim
13321 \count\footinsv@r=166\relax
13322 \m@make@sixcol@footgroup{v@r}%
13323 \let@footgroupv@r@sixcol@footgroupv@r
13324 \dimen\footinsv@l=6\footinsdim
13325 \count\footinsv@l=166\relax
13326 \bidi@make@sixcol@LTRfootgroup{v@l}%
13327 \let@LTRfootgroupv@l@sixcol@LTRfootgroupv@l
13328 \let@mpfootnotetext@mpsixcolfootnotetext
13329 \let@mpLTRfootnotetext@mpsixcolLTRfootnotetext
13330 \let@mpRTLfootnotetext@mpsixcolRTLfootnotetext
13331 \@bidi@after@Hy@hyperfootnotes
13332 \m@make@mpsixcol@footgroup{v@r}%
13333 \let@mp@footgroupv@r@mpsixcol@footgroupv@r
13334 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13335 \let@mp@LTRfootgroupv@l@mpsixcol@LTRfootgroupv@l
13336 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13337 }
13338 \newcommand{\SixColumnFootnotes}{%
13339 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13340 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13341 \@bidi@before@Hy@hyperfootnotes
13342 \let@footnotetext@SixColfootnotetext
13343 \let@LTRfootnotetext@SixColLTRfootnotetext
13344 \let@RTLfootnotetext@SixColRTLfootnotetext
13345 \dimen\footinsv@r=6\footinsdim
13346 \count\footinsv@r=166\relax
13347 \m@make@sixcol@footgroup{v@r}%

```



```

13348 \let\@footgroupv@r\@sixcol@footgroupv@r
13349 \dimen\footinsv@l=6\footinsdim
13350 \count\footinsv@l=166\relax
13351 \bidi@make@sixcol@LTRfootgroup{v@l}%
13352 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13353 \let\@mpfootnotetext\@mpSixColfootnotetext
13354 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13355 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13356 \@bidi@after@Hy@hyperfootnotes
13357 \m@make@mpsixcol@footgroup{v@r}%
13358 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13359 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13360 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13361 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13362 }
13363 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13364 \ifRTL@footnote
13365 \footinsv@r
13366 \else
13367 \footinsv@l
13368 \fi
13369 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13370 \def\baselinestretch{\m@footnote@spacing}%
13371 \reset@font\foottextfont
13372 \@preamfntext
13373 \protected@edef\@currentlabel{%
13374 \csname p@footnote\endcsname\@thefnmark}%
13375 \color@begingroup
13376 \@sixcolfootfmt{#1}%
13377 \color@endgroup}%
13378 \m@mmf@prepare}
13379 \newcommand{\@SixColfootnotetext}[1]{%
13380 \bidi@step@absolute@footnote@count
13381 \ifRTL@footnote
13382 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13383 \else
13384 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13385 \fi
13386 \global\setbox
13387 \ifRTL@footnote
13388 \footinsv@r
13389 \else
13390 \footinsv@l
13391 \fi
13392 \vbox{%
13393 \unvbox
13394 \ifRTL@footnote
13395 \footinsv@r
13396 \else
13397 \footinsv@l
13398 \fi
13399 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13400 \def\baselinestretch{\m@footnote@spacing}%
13401 \reset@font\foottextfont

```



```

13402 \@preamfntext
13403 \protected@edef\@currentlabel{%
13404   \csname p@footnote\endcsname\@thefnmark}%
13405 \color@begingroup
13406   \@sixcolfootfmt{#1}%
13407 \color@endgroup}%
13408 \m@mmf@prepare
13409 \if@RTL@footnote
13410   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13411 \else
13412   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13413 \fi
13414 }
13415 \bidi@ensure@newcommand{\@sixcollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13416 \def\baselinestretch{\m@mm@footnote@spacing}%
13417 \reset@font\LTRfoottextfont
13418 \@preamfntext
13419 \protected@edef\@currentlabel{%
13420   \csname p@footnote\endcsname\@thefnmark}%
13421 \color@begingroup
13422   \@sixcollTRfootfmt{#1}%
13423 \color@endgroup}%
13424 \m@mmf@prepare}
13425 \newcommand{\@SixCollTRfootnotetext}[1]{%
13426 \bidi@step@absolute@footnote@count
13427 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13428 \global\setbox\footinsv@l\vbox{%
13429 \unvbox\footinsv@l
13430 \@RTLfalse
13431 \def\baselinestretch{\m@mm@footnote@spacing}%
13432 \reset@font\LTRfoottextfont
13433 \@preamfntext
13434 \protected@edef\@currentlabel{%
13435   \csname p@footnote\endcsname\@thefnmark}%
13436 \color@begingroup
13437   \@sixcollTRfootfmt{#1}%
13438 \color@endgroup}%
13439 \m@mmf@prepare
13440 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13441 }
13442 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13443 \def\baselinestretch{\m@mm@footnote@spacing}%
13444 \reset@font\RTLfoottextfont
13445 \@preamfntext
13446 \protected@edef\@currentlabel{%
13447   \csname p@footnote\endcsname\@thefnmark}%
13448 \color@begingroup
13449   \@sixcolRTLfootfmt{#1}%
13450 \color@endgroup}%
13451 \m@mmf@prepare}
13452 \newcommand{\@SixColRTLfootnotetext}[1]{%
13453 \bidi@step@absolute@footnote@count
13454 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13455 \global\setbox\footinsv@r\vbox{%

```



```

13456 \unvbox\footinsv@r
13457 \@RTLtrue
13458 \def\baselinestretch{\m@m@footnote@spacing}%
13459 \reset@font\RTLfoottextfont
13460 \@preamftext
13461 \protected@edef\@currentlabel{%
13462   \csname p@footnote\endcsname\@thefnmark}%
13463 \color@begingroup
13464   \@sixcolRTLfootfmt{#1}%
13465 \color@endgroup}%
13466 \m@mmf@prepare
13467 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13468 }
13469 \bidi@ensure@newcommand{\@preamsixfmt}{%
13470   \hspace .16\hspace
13471   \parindent=\z@
13472   \tolerance=5000\relax
13473   \leavevmode}
13474 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13475   \@preamsixfmt
13476   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13477 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13478   \@preamsixfmt
13479   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13480 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13481   \@preamsixfmt
13482   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13483 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13484   \global\setbox
13485     \if@RTL@footnote
13486     \@mpfootinsv@r
13487   \else
13488     \@mpfootinsv@l
13489   \fi
13490   \vbox{%
13491     \unvbox
13492     \if@RTL@footnote
13493     \@mpfootinsv@r
13494   \else
13495     \@mpfootinsv@l
13496   \fi
13497   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13498   \def\baselinestretch{\m@m@footnote@spacing}%
13499   \reset@font\foottextfont
13500   \hspace\columnwidth \@parboxrestore
13501   \protected@edef\@currentlabel{%
13502     \csname p@mpfootnote\endcsname\@thefnmark}%
13503   \color@begingroup
13504     \@sixcolfootfmt{#1}%
13505   \color@endgroup}%
13506   \m@mmf@prepare}
13507 \newcommand{\@mpSixColfootnotetext}[1]{%
13508   \if@RTL@footnote
13509   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l

```



```

13510 \else
13511   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13512 \fi
13513 \global\setbox
13514   \if@RTL@footnote
13515   \@mpfootinsv@r
13516 \else
13517   \@mpfootinsv@l
13518 \fi
13519 \vbox{%
13520   \unvbox
13521   \if@RTL@footnote
13522   \@mpfootinsv@r
13523 \else
13524   \@mpfootinsv@l
13525 \fi
13526   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13527   \def\baselinestretch{\m@m@footnote@spacing}%
13528   \reset@font\foottextfont
13529   \hsize\columnwidth \@parboxrestore
13530   \protected@edef\@currentlabel{%
13531     \csname p@mpfootnote\endcsname\@thefnmark}%
13532 \color@begingroup
13533   \@sixcolfootfmt{#1}%
13534 \color@endgroup}%
13535 \m@mmf@prepare}
13536 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13537 \global\setbox\@mpfootinsv@l\vbox{%
13538   \unvbox\@mpfootinsv@l
13539   \@RTLfalse
13540   \def\baselinestretch{\m@m@footnote@spacing}%
13541   \reset@font\LTRfoottextfont
13542   \hsize\columnwidth \@parboxrestore
13543   \protected@edef\@currentlabel{%
13544     \csname p@mpfootnote\endcsname\@thefnmark}%
13545 \color@begingroup
13546   \@sixcolLTRfootfmt{#1}%
13547 \color@endgroup}%
13548 \m@mmf@prepare}
13549 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13550 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13551 \global\setbox\@mpfootinsv@l\vbox{%
13552   \unvbox\@mpfootinsv@l
13553   \@RTLfalse
13554   \def\baselinestretch{\m@m@footnote@spacing}%
13555   \reset@font\LTRfoottextfont
13556   \hsize\columnwidth \@parboxrestore
13557   \protected@edef\@currentlabel{%
13558     \csname p@mpfootnote\endcsname\@thefnmark}%
13559 \color@begingroup
13560   \@sixcolLTRfootfmt{#1}%
13561 \color@endgroup}%
13562 \m@mmf@prepare}
13563 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%

```



```

13564 \global\setbox\@mpfootinsv@r\vbox{%
13565   \unvbox\@mpfootinsv@r
13566   \@RTLtrue
13567   \def\baselinestretch{\m@m@footnote@spacing}%
13568   \reset@font\RTLfoottextfont
13569   \hsize\columnwidth \@parboxrestore
13570   \protected@edef\@currentlabel{%
13571     \csname p@mpfootnote\endcsname\@thefnmark}%
13572   \color@begingroup
13573     \@sixcolRTLfootfmt{#1}%
13574   \color@endgroup}%
13575   \m@mmf@prepare}
13576 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13577   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13578   \global\setbox\@mpfootinsv@r\vbox{%
13579     \unvbox\@mpfootinsv@r
13580     \@RTLtrue
13581     \def\baselinestretch{\m@m@footnote@spacing}%
13582     \reset@font\RTLfoottextfont
13583     \hsize\columnwidth \@parboxrestore
13584     \protected@edef\@currentlabel{%
13585       \csname p@mpfootnote\endcsname\@thefnmark}%
13586     \color@begingroup
13587       \@sixcolRTLfootfmt{#1}%
13588     \color@endgroup}%
13589     \m@mmf@prepare}
13590 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13591   \@namedef{\@sixcol@footgroup#1}{%
13592     \def\baselinestretch{\m@m@footnote@spacing}%
13593     \hsize\bidi@columnwidth
13594     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13595     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13596 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13597   \@namedef{\@sixcol@LTRfootgroup#1}{%
13598     \def\baselinestretch{\m@m@footnote@spacing}%
13599     \hsize\bidi@columnwidth
13600     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13601     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13602 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13603   \@namedef{\@mpsixcol@footgroup#1}{%
13604     \def\baselinestretch{\m@m@footnote@spacing}%
13605     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13606     \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}}
13607 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13608   \@namedef{\@mpsixcol@LTRfootgroup#1}{%
13609     \def\baselinestretch{\m@m@footnote@spacing}%
13610     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13611     \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}}
13612 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13613   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13614   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13615   \@bidi@before@Hy@hyperfootnotes
13616   \let\@footnotetext\@sevendcolfootnotetext
13617   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext

```



```

13618 \let\@RTLfootnotetext\@sevencolRTLfootnotetext
13619 \dimen\footinsv@r=7\footinsdim
13620 \count\footinsv@r=142\relax
13621 \m@make@sevencol@footgroup{v@r}%
13622 \let\@footgroupv@r\@sevencol@footgroupv@r
13623 \dimen\footinsv@l=7\footinsdim
13624 \count\footinsv@l=142\relax
13625 \bidi@make@sevencol@LTRfootgroup{v@l}%
13626 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13627 \let\@mpfootnotetext\@mpsevencolfootnotetext
13628 \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
13629 \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
13630 \@bidi@after@Hy@hyperfootnotes
13631 \m@make@mpsevencol@footgroup{v@r}%
13632 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13633 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13634 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13635 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13636 }
13637 \newcommand{\SevenColumnFootnotes}{%
13638 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13639 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13640 \@bidi@before@Hy@hyperfootnotes
13641 \let\@footnotetext\@SevenColfootnotetext
13642 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13643 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13644 \dimen\footinsv@r=7\footinsdim
13645 \count\footinsv@r=142\relax
13646 \m@make@sevencol@footgroup{v@r}%
13647 \let\@footgroupv@r\@sevencol@footgroupv@r
13648 \dimen\footinsv@l=7\footinsdim
13649 \count\footinsv@l=142\relax
13650 \bidi@make@sevencol@LTRfootgroup{v@l}%
13651 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13652 \let\@mpfootnotetext\@mpSevenColfootnotetext
13653 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13654 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13655 \@bidi@after@Hy@hyperfootnotes
13656 \m@make@mpsevencol@footgroup{v@r}%
13657 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13658 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13659 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13660 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13661 }
13662 \bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert
13663 \if@RTL@footnote
13664 \footinsv@r
13665 \else
13666 \footinsv@l
13667 \fi
13668 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13669 \def\baselinestretch{\m@footnote@spacing}%
13670 \reset@font\foottextfont
13671 \@preamfntext

```



```

13672 \protected@edef\@currentlabel{%
13673   \csname p@footnote\endcsname\@thefnmark}%
13674 \color@begingroup
13675   \@sevenscolfootfmt{#1}%
13676 \color@endgroup}%
13677 \m@mmf@prepare}
13678 \newcommand{\@SevenColfootnotetext}[1]{%
13679   \bidi@step@absolutefootnote@count
13680   \if@RTL@footnote
13681     \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13682   \else
13683     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13684   \fi
13685   \global\setbox
13686   \if@RTL@footnote
13687     \footinsv@r
13688   \else
13689     \footinsv@1
13690   \fi
13691   \vbox{%
13692     \unvbox
13693     \if@RTL@footnote
13694       \footinsv@r
13695     \else
13696       \footinsv@1
13697     \fi
13698     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13699     \def\baselinestretch{\m@m@footnote@spacing}%
13700     \reset@font\foottextfont
13701     \@preamfntext
13702     \protected@edef\@currentlabel{%
13703       \csname p@footnote\endcsname\@thefnmark}%
13704     \color@begingroup
13705       \@sevenscolfootfmt{#1}%
13706     \color@endgroup}%
13707     \m@mmf@prepare
13708     \if@RTL@footnote
13709       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13710     \else
13711       \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13712     \fi
13713 }
13714 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@1{\@RTLfalse%
13715   \def\baselinestretch{\m@m@footnote@spacing}%
13716   \reset@font\LTRfoottextfont
13717   \@preamfntext
13718   \protected@edef\@currentlabel{%
13719     \csname p@footnote\endcsname\@thefnmark}%
13720   \color@begingroup
13721     \@sevenscolLTRfootfmt{#1}%
13722   \color@endgroup}%
13723   \m@mmf@prepare}
13724 \newcommand{\@SevenCollTRfootnotetext}[1]{%
13725   \bidi@step@absolutefootnote@count

```




```

13726 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13727 \global\setbox\footinsv@l\vbox{%
13728 \unvbox\footinsv@l
13729 \RTLfalse
13730 \def\baselinestretch{\m@m@footnote@spacing}%
13731 \reset@font\LTRfoottextfont
13732 \@preamfntext
13733 \protected@edef\@currentlabel{%
13734   \csname p@footnote\endcsname\@thefnmark}%
13735 \color@begingroup
13736   \@sevendcolLTRfootfmt{#1}%
13737 \color@endgroup}%
13738 \m@mmf@prepare
13739 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13740 }
13741 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13742 \def\baselinestretch{\m@m@footnote@spacing}%
13743 \reset@font\RTLfoottextfont
13744 \@preamfntext
13745 \protected@edef\@currentlabel{%
13746   \csname p@footnote\endcsname\@thefnmark}%
13747 \color@begingroup
13748   \@sevendcolRTLfootfmt{#1}%
13749 \color@endgroup}%
13750 \m@mmf@prepare}
13751 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13752 \bidi@step@absolutefootnote@count
13753 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13754 \global\setbox\footinsv@r\vbox{%
13755 \unvbox\footinsv@r
13756 \RTLtrue
13757 \def\baselinestretch{\m@m@footnote@spacing}%
13758 \reset@font\RTLfoottextfont
13759 \@preamfntext
13760 \protected@edef\@currentlabel{%
13761   \csname p@footnote\endcsname\@thefnmark}%
13762 \color@begingroup
13763   \@sevendcolRTLfootfmt{#1}%
13764 \color@endgroup}%
13765 \m@mmf@prepare
13766 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13767 }
13768 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13769 \hspace .142\hspace
13770 \parindent=\z@
13771 \tolerance=5000\relax
13772 \leavevmode}
13773 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
13774 \@preamsevenfmt
13775 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13776 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
13777 \@preamsevenfmt
13778 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13779 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%

```



```

13780 \@preamsevenfmt
13781 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13782 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13783   \global\setbox
13784     \if@RTL@footnote
13785     \@mpfootinsv@r
13786   \else
13787     \@mpfootinsv@l
13788   \fi
13789   \vbox{%
13790     \unvbox
13791     \if@RTL@footnote
13792     \@mpfootinsv@r
13793   \else
13794     \@mpfootinsv@l
13795   \fi
13796   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13797   \def\baselinestretch{\m@m@footnote@spacing}%
13798   \reset@font\foottextfont
13799   \hsize\columnwidth \@parboxrestore
13800   \protected@edef\@currentlabel{%
13801     \csname p@mpfootnote\endcsname\@thefnmark}%
13802   \color@begingroup
13803     \@sevencolfootfmt{#1}%
13804   \color@endgroup}%
13805   \m@mmf@prepare}
13806 \newcommand{\@mpSevenColfootnotetext}[1]{%
13807   \if@RTL@footnote
13808     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13809   \else
13810     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13811   \fi
13812   \global\setbox
13813     \if@RTL@footnote
13814     \@mpfootinsv@r
13815   \else
13816     \@mpfootinsv@l
13817   \fi
13818   \vbox{%
13819     \unvbox
13820     \if@RTL@footnote
13821     \@mpfootinsv@r
13822   \else
13823     \@mpfootinsv@l
13824   \fi
13825   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13826   \def\baselinestretch{\m@m@footnote@spacing}%
13827   \reset@font\foottextfont
13828   \hsize\columnwidth \@parboxrestore
13829   \protected@edef\@currentlabel{%
13830     \csname p@mpfootnote\endcsname\@thefnmark}%
13831   \color@begingroup
13832     \@sevencolfootfmt{#1}%
13833   \color@endgroup}%

```



```

13834 \m@mmf@prepare}
13835 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13836 \global\setbox\@mpfootinsv@l\vbox{%
13837 \unvbox\@mpfootinsv@l
13838 \@RTLfalse
13839 \def\baselinestretch{\m@m@footnote@spacing}%
13840 \reset@font\LTRfoottextfont
13841 \hsize\columnwidth \@parboxrestore
13842 \protected@edef\@currentlabel{%
13843 \csname p@mpfootnote\endcsname\@thefnmark}%
13844 \color@begingroup
13845 \@sevencolLTRfootfmt{#1}%
13846 \color@endgroup}%
13847 \m@mmf@prepare}
13848 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13849 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13850 \global\setbox\@mpfootinsv@l\vbox{%
13851 \unvbox\@mpfootinsv@l
13852 \@RTLfalse
13853 \def\baselinestretch{\m@m@footnote@spacing}%
13854 \reset@font\LTRfoottextfont
13855 \hsize\columnwidth \@parboxrestore
13856 \protected@edef\@currentlabel{%
13857 \csname p@mpfootnote\endcsname\@thefnmark}%
13858 \color@begingroup
13859 \@sevencolLTRfootfmt{#1}%
13860 \color@endgroup}%
13861 \m@mmf@prepare}
13862 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13863 \global\setbox\@mpfootinsv@r\vbox{%
13864 \unvbox\@mpfootinsv@r
13865 \@RTLtrue
13866 \def\baselinestretch{\m@m@footnote@spacing}%
13867 \reset@font\RTLfoottextfont
13868 \hsize\columnwidth \@parboxrestore
13869 \protected@edef\@currentlabel{%
13870 \csname p@mpfootnote\endcsname\@thefnmark}%
13871 \color@begingroup
13872 \@sevencolRTLfootfmt{#1}%
13873 \color@endgroup}%
13874 \m@mmf@prepare}
13875 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13876 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13877 \global\setbox\@mpfootinsv@r\vbox{%
13878 \unvbox\@mpfootinsv@r
13879 \@RTLtrue
13880 \def\baselinestretch{\m@m@footnote@spacing}%
13881 \reset@font\RTLfoottextfont
13882 \hsize\columnwidth \@parboxrestore
13883 \protected@edef\@currentlabel{%
13884 \csname p@mpfootnote\endcsname\@thefnmark}%
13885 \color@begingroup
13886 \@sevencolRTLfootfmt{#1}%
13887 \color@endgroup}%

```



```

13888 \m@mmf@prepare}
13889 \bidi@ensure@newcommand{\m@make@sevencol@footgroup}[1]{%
13890 \namedef{@sevencol@footgroup#1}{%
13891 \def\baselinestretch{\m@m@footnote@spacing}%
13892 \hsize\bidi@columnwidth
13893 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13894 \m@r rigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}
13895 \newcommand{\bidi@make@sevencol@LTRfootgroup}[1]{%
13896 \namedef{@sevencol@LTRfootgroup#1}{%
13897 \def\baselinestretch{\m@m@footnote@spacing}%
13898 \hsize\bidi@columnwidth
13899 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13900 \bidi@LTRrigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}
13901 \bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
13902 \namedef{@mpsevencol@footgroup#1}{%
13903 \def\baselinestretch{\m@m@footnote@spacing}%
13904 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13905 \m@r rigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}
13906 \newcommand{\bidi@make@mpsevencol@LTRfootgroup}[1]{%
13907 \namedef{@mpsevencol@LTRfootgroup#1}{%
13908 \def\baselinestretch{\m@m@footnote@spacing}%
13909 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13910 \bidi@LTRrigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}
13911 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13912 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13913 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13914 \@bidi@before@Hy@hyperfootnotes
13915 \let\@footnotetext\@eightcolfootnotetext
13916 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13917 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13918 \dimen\footinsv@r=8\footinsdim
13919 \count\footinsv@r=125\relax
13920 \m@make@eightcol@footgroup{v@r}%
13921 \let\@footgroupv@r\@eightcol@footgroupv@r
13922 \dimen\footinsv@l=8\footinsdim
13923 \count\footinsv@l=125\relax
13924 \bidi@make@eightcol@LTRfootgroup{v@l}%
13925 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13926 \let\@mpfootnotetext\@mpeightcolfootnotetext
13927 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13928 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13929 \@bidi@after@Hy@hyperfootnotes
13930 \m@make@mpeightcol@footgroup{v@r}%
13931 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13932 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13933 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13934 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13935 }
13936 \newcommand{\EightColumnFootnotes}{%
13937 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13938 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13939 \@bidi@before@Hy@hyperfootnotes
13940 \let\@footnotetext\@EightColfootnotetext
13941 \let\@LTRfootnotetext\@EightColLTRfootnotetext

```



```

13942 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13943 \dimen\footinsv@r=8\footinsdim
13944 \count\footinsv@r=125\relax
13945 \m@make@eightcol@footgroup{v@r}%
13946 \let\@footgroupv@r\@eightcol@footgroupv@r
13947 \dimen\footinsv@l=8\footinsdim
13948 \count\footinsv@l=125\relax
13949 \bidi@make@eightcol@LTRfootgroup{v@l}%
13950 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13951 \let\@mpfootnotetext\@mpEightColfootnotetext
13952 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13953 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13954 \@bidi@after@Hy@hyperfootnotes
13955 \m@make@mp@eightcol@footgroup{v@r}%
13956 \let\mp@footgroupv@r\@mp@eightcol@footgroupv@r
13957 \bidi@make@mp@eightcol@LTRfootgroup{v@l}%
13958 \let\mp@LTRfootgroupv@l\@mp@eightcol@LTRfootgroupv@l
13959 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13960 }
13961 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13962 \ifRTL@footnote
13963 \footinsv@r
13964 \else
13965 \footinsv@l
13966 \fi
13967 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13968 \def\baselinestretch{\m@footnote@spacing}%
13969 \reset@font\foottextfont
13970 \@preamfntext
13971 \protected@edef\@currentlabel{%
13972 \csname p@footnote\endcsname\@thefnmark}%
13973 \color@begingroup
13974 \@eightcolfootfmt{#1}%
13975 \color@endgroup}%
13976 \m@mmf@prepare}
13977 \newcommand{\@EightColfootnotetext}[1]{%
13978 \bidi@step@absolute@footnote@count
13979 \ifRTL@footnote
13980 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13981 \else
13982 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13983 \fi
13984 \global\setbox
13985 \ifRTL@footnote
13986 \footinsv@r
13987 \else
13988 \footinsv@l
13989 \fi
13990 \vbox{%
13991 \unvbox
13992 \ifRTL@footnote
13993 \footinsv@r
13994 \else
13995 \footinsv@l

```



```

13996 \fi
13997 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13998 \def\baselinestretch{\m@m@footnote@spacing}%
13999 \reset@font\foottextfont
14000 \@premfntext
14001 \protected@edef\@currentlabel{%
14002   \csname p@footnote\endcsname\@thefnmark}%
14003 \color@begingroup
14004   \@eightcolfootfmt{#1}%
14005 \color@endgroup}%
14006 \m@mmf@prepare
14007 \ifRTL@footnote
14008   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14009 \else
14010   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14011 \fi
14012 }
14013 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14014 \def\baselinestretch{\m@m@footnote@spacing}%
14015 \reset@font\LTRfoottextfont
14016 \@premfntext
14017 \protected@edef\@currentlabel{%
14018   \csname p@footnote\endcsname\@thefnmark}%
14019 \color@begingroup
14020   \@eightcolLTRfootfmt{#1}%
14021 \color@endgroup}%
14022 \m@mmf@prepare}
14023 \newcommand{\@EightColLTRfootnotetext}[1]{%
14024 \bidi@step@absolute@footnote@count
14025 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14026 \global\setbox\footinsv@l\vbox{%
14027 \unvbox\footinsv@l
14028 \@RTLfalse
14029 \def\baselinestretch{\m@m@footnote@spacing}%
14030 \reset@font\LTRfoottextfont
14031 \@premfntext
14032 \protected@edef\@currentlabel{%
14033   \csname p@footnote\endcsname\@thefnmark}%
14034 \color@begingroup
14035   \@eightcolLTRfootfmt{#1}%
14036 \color@endgroup}%
14037 \m@mmf@prepare
14038 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14039 }
14040 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14041 \def\baselinestretch{\m@m@footnote@spacing}%
14042 \reset@font\RTLfoottextfont
14043 \@premfntext
14044 \protected@edef\@currentlabel{%
14045   \csname p@footnote\endcsname\@thefnmark}%
14046 \color@begingroup
14047   \@eightcolRTLfootfmt{#1}%
14048 \color@endgroup}%
14049 \m@mmf@prepare}

```



```

14050 \newcommand{\@EightColRTLfootnotetext}[1]{%
14051   \bidi@step@absolute@footnote@count
14052   \bidi@reinsert@footnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
14053   \global\setbox\footinsv@r\vbox{%
14054     \unvbox\footinsv@r
14055     \@RTLtrue%
14056     \def\baselinestretch{\m@m@footnote@spacing}%
14057     \reset@font\RTLfoottextfont
14058     \@preamfntext
14059     \protected@edef\@currentlabel{%
14060       \csname p@footnote\endcsname\@thefnmark}%
14061     \color@begingroup
14062       \@eightcolRTLfootfmt{#1}%
14063     \color@endgroup}%
14064     \m@mmf@prepare
14065     \bidi@reinsert@final@footnote@perpage\footinsv@r\@footstartv@r\@footgroupv@r
14066 }
14067 \bidi@ensure@newcommand{\@preameightfmt}{%
14068   \hsize .125\hsize
14069   \parindent=\z@
14070   \tolerance=5000\relax
14071   \leavevmode}
14072 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14073   \@preameightfmt
14074   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14075 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14076   \@preameightfmt
14077   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14078 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14079   \@preameightfmt
14080   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14081 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14082   \global\setbox
14083     \if@RTL@footnote
14084     \@mpfootinsv@r
14085   \else
14086     \@mpfootinsv@l
14087   \fi
14088   \vbox{%
14089     \unvbox
14090     \if@RTL@footnote
14091     \@mpfootinsv@r
14092   \else
14093     \@mpfootinsv@l
14094   \fi
14095     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14096     \def\baselinestretch{\m@m@footnote@spacing}%
14097     \reset@font\foottextfont
14098     \hsize\columnwidth \@parboxrestore
14099     \protected@edef\@currentlabel{%
14100       \csname p@mpfootnote\endcsname\@thefnmark}%
14101     \color@begingroup
14102       \@eightcolfootfmt{#1}%
14103     \color@endgroup}%

```



```

14104 \m@mmf@prepare}
14105 \newcommand{\@mpEightColfootnotetext}[1]{%
14106   \if@RTL@footnote
14107     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14108   \else
14109     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14110   \fi
14111   \global\setbox
14112     \if@RTL@footnote
14113     \@mpfootinsv@r
14114   \else
14115     \@mpfootinsv@l
14116   \fi
14117   \vbox{%
14118     \unvbox
14119     \if@RTL@footnote
14120     \@mpfootinsv@r
14121   \else
14122     \@mpfootinsv@l
14123   \fi
14124   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14125   \def\baselinestretch{\m@m@footnote@spacing}%
14126   \reset@font\foottextfont
14127   \hsize\columnwidth \@parboxrestore
14128   \protected@edef\@currentlabel{%
14129     \csname p@mpfootnote\endcsname\@thefnmark}%
14130   \color@begingroup
14131     \@eightcolfootfmt{#1}%
14132   \color@endgroup}%
14133   \m@mmf@prepare}
14134 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14135   \global\setbox\@mpfootinsv@l\vbox{%
14136     \unvbox\@mpfootinsv@l
14137     \@RTLfalse
14138     \def\baselinestretch{\m@m@footnote@spacing}%
14139     \reset@font\LTRfoottextfont
14140     \hsize\columnwidth \@parboxrestore
14141     \protected@edef\@currentlabel{%
14142       \csname p@mpfootnote\endcsname\@thefnmark}%
14143     \color@begingroup
14144       \@eightcolLTRfootfmt{#1}%
14145     \color@endgroup}%
14146   \m@mmf@prepare}
14147 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14148   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14149   \global\setbox\@mpfootinsv@l\vbox{%
14150     \unvbox\@mpfootinsv@l
14151     \@RTLfalse
14152     \def\baselinestretch{\m@m@footnote@spacing}%
14153     \reset@font\LTRfoottextfont
14154     \hsize\columnwidth \@parboxrestore
14155     \protected@edef\@currentlabel{%
14156       \csname p@mpfootnote\endcsname\@thefnmark}%
14157   \color@begingroup

```




```

14158 \eightcolLTRfootfmt{#1}%
14159 \color@endgroup}%
14160 \m@mmf@prepare}
14161 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
14162 \global\setbox\@mpfootinsv@r\vbox{%
14163 \unvbox\@mpfootinsv@r
14164 \@RTLtrue
14165 \def\baselinestretch{\m@m@footnote@spacing}%
14166 \reset@font\RTLfoottextfont
14167 \hsize\columnwidth \@parboxrestore
14168 \protected@edef\@currentlabel{%
14169 \csname p@mpfootnote\endcsname\@thefnmark}%
14170 \color@begingroup
14171 \eightcolRTLfootfmt{#1}%
14172 \color@endgroup}%
14173 \m@mmf@prepare}
14174 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14175 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14176 \global\setbox\@mpfootinsv@r\vbox{%
14177 \unvbox\@mpfootinsv@r
14178 \@RTLtrue
14179 \def\baselinestretch{\m@m@footnote@spacing}%
14180 \reset@font\RTLfoottextfont
14181 \hsize\columnwidth \@parboxrestore
14182 \protected@edef\@currentlabel{%
14183 \csname p@mpfootnote\endcsname\@thefnmark}%
14184 \color@begingroup
14185 \eightcolRTLfootfmt{#1}%
14186 \color@endgroup}%
14187 \m@mmf@prepare}
14188 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14189 \@namedef{@eightcol@footgroup#1}{%
14190 \def\baselinestretch{\m@m@footnote@spacing}%
14191 \hsize\bidi@columnwidth
14192 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14193 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14194 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14195 \@namedef{@eightcol@LTRfootgroup#1}{%
14196 \def\baselinestretch{\m@m@footnote@spacing}%
14197 \hsize\bidi@columnwidth
14198 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14199 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14200 \bidi@ensure@newcommand{\m@make@mp@eightcol@footgroup}[1]{%
14201 \@namedef{@mp@eightcol@footgroup#1}{%
14202 \def\baselinestretch{\m@m@footnote@spacing}%
14203 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14204 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14205 \newcommand{\bidi@make@mp@eightcol@LTRfootgroup}[1]{%
14206 \@namedef{@mp@eightcol@LTRfootgroup#1}{%
14207 \def\baselinestretch{\m@m@footnote@spacing}%
14208 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14209 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14210 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
14211 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

14212 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14213 \@bidi@before@Hy@hyperfootnotes
14214 \let\@footnotetext\@ninecolfootnotetext
14215 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
14216 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
14217 \dimen\footinsv@r=9\footinsdim
14218 \count\footinsv@r=111\relax
14219 \m@make@ninecol@footgroup{v@r}%
14220 \let\@footgroupv@r\@ninecol@footgroupv@r
14221 \dimen\footinsv@l=9\footinsdim
14222 \count\footinsv@l=111\relax
14223 \bidi@make@ninecol@LTRfootgroup{v@l}%
14224 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14225 \let\@mpfootnotetext\@mpninecolfootnotetext
14226 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
14227 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
14228 \@bidi@after@Hy@hyperfootnotes
14229 \m@make@mpninecol@footgroup{v@r}%
14230 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14231 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14232 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14233 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14234 }
14235 \newcommand{\NineColumnFootnotes}{%
14236 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14237 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14238 \@bidi@before@Hy@hyperfootnotes
14239 \let\@footnotetext\@NineColfootnotetext
14240 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14241 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14242 \dimen\footinsv@r=9\footinsdim
14243 \count\footinsv@r=111\relax
14244 \m@make@ninecol@footgroup{v@r}%
14245 \let\@footgroupv@r\@ninecol@footgroupv@r
14246 \dimen\footinsv@l=9\footinsdim
14247 \count\footinsv@l=111\relax
14248 \bidi@make@ninecol@LTRfootgroup{v@l}%
14249 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14250 \let\@mpfootnotetext\@mpNineColfootnotetext
14251 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14252 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14253 \@bidi@after@Hy@hyperfootnotes
14254 \m@make@mpninecol@footgroup{v@r}%
14255 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14256 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14257 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14258 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14259 }
14260 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
14261 \if@RTL@footnote
14262 \footinsv@r
14263 \else
14264 \footinsv@l
14265 \fi

```



```

14266 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14267 \def\baselinestretch{\m@m@footnote@spacing}%
14268 \reset@font\foottextfont
14269 \@preamfntext
14270 \protected@edef\@currentlabel{%
14271 \csname p@footnote\endcsname\@thefnmark}%
14272 \color@begingroup
14273 \@ninecolfootfmt{#1}%
14274 \color@endgroup}%
14275 \m@mmf@prepare}
14276 \newcommand{\@NineColfootnotetext}[1]{%
14277 \bidi@step@absolute@footnote@count
14278 \ifRTL@footnote
14279 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14280 \else
14281 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14282 \fi
14283 \global\setbox
14284 \ifRTL@footnote
14285 \footinsv@r
14286 \else
14287 \footinsv@l
14288 \fi
14289 \vbox{%
14290 \unvbox
14291 \ifRTL@footnote
14292 \footinsv@r
14293 \else
14294 \footinsv@l
14295 \fi
14296 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14297 \def\baselinestretch{\m@m@footnote@spacing}%
14298 \reset@font\foottextfont
14299 \@preamfntext
14300 \protected@edef\@currentlabel{%
14301 \csname p@footnote\endcsname\@thefnmark}%
14302 \color@begingroup
14303 \@ninecolfootfmt{#1}%
14304 \color@endgroup}%
14305 \m@mmf@prepare
14306 \ifRTL@footnote
14307 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14308 \else
14309 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14310 \fi
14311 }
14312 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14313 \def\baselinestretch{\m@m@footnote@spacing}%
14314 \reset@font\LTRfoottextfont
14315 \@preamfntext
14316 \protected@edef\@currentlabel{%
14317 \csname p@footnote\endcsname\@thefnmark}%
14318 \color@begingroup
14319 \@ninecolLTRfootfmt{#1}%

```



```

14320 \color@endgroup}%
14321 \m@mmf@prepare}
14322 \newcommand{\@NineColLTRfootnotetext}[1]{%
14323 \bidi@step@absolute@footnote@count
14324 \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
14325 \global\setbox\footinsv@l\vbox{%
14326 \unvbox\footinsv@l
14327 \RTLfalse
14328 \def\baselinestretch{\m@m@footnote@spacing}%
14329 \reset@font\LTRfoottextfont
14330 \@preamfntext
14331 \protected@edef\@currentlabel{%
14332 \csname p@footnote\endcsname\@thefnmark}%
14333 \color@begingroup
14334 \@ninecolLTRfootfmt{#1}%
14335 \color@endgroup}%
14336 \m@mmf@prepare
14337 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14338 }
14339 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14340 \def\baselinestretch{\m@m@footnote@spacing}%
14341 \reset@font\RTLfoottextfont
14342 \@preamfntext
14343 \protected@edef\@currentlabel{%
14344 \csname p@footnote\endcsname\@thefnmark}%
14345 \color@begingroup
14346 \@ninecolRTLfootfmt{#1}%
14347 \color@endgroup}%
14348 \m@mmf@prepare}
14349 \newcommand{\@NineColRTLfootnotetext}[1]{%
14350 \bidi@step@absolute@footnote@count
14351 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14352 \global\setbox\footinsv@r\vbox{%
14353 \unvbox\footinsv@r
14354 \RTLtrue
14355 \def\baselinestretch{\m@m@footnote@spacing}%
14356 \reset@font\RTLfoottextfont
14357 \@preamfntext
14358 \protected@edef\@currentlabel{%
14359 \csname p@footnote\endcsname\@thefnmark}%
14360 \color@begingroup
14361 \@ninecolRTLfootfmt{#1}%
14362 \color@endgroup}%
14363 \m@mmf@prepare
14364 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14365 }
14366 \bidi@ensure@newcommand{\@preamninefmt}{%
14367 \hspace .1\hspace
14368 \parindent=\z@
14369 \tolerance=5000\relax
14370 \leavevmode}
14371 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14372 \@preamninefmt
14373 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}

```



```

14374 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14375   \@preamninefmt
14376   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14377 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14378   \@preamninefmt
14379   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14380 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14381   \global\setbox
14382     \if@RTL@footnote
14383     \@mpfootinsv@r
14384   \else
14385     \@mpfootinsv@l
14386   \fi
14387   \vbox{%
14388     \unvbox
14389     \if@RTL@footnote
14390     \@mpfootinsv@r
14391   \else
14392     \@mpfootinsv@l
14393   \fi
14394   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14395   \def\baselinestretch{\m@m@footnote@spacing}%
14396   \reset@font\foottextfont
14397   \hsize\columnwidth \@parboxrestore
14398   \protected@edef\@currentlabel{%
14399     \csname p@mpfootnote\endcsname\@thefnmark}%
14400   \color@begingroup
14401     \@ninecolfootfmt{#1}%
14402   \color@endgroup}%
14403   \m@m@mmf@prepare}
14404 \newcommand{\@mpNineColfootnotetext}[1]{%
14405   \if@RTL@footnote
14406     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14407   \else
14408     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14409   \fi
14410   \global\setbox
14411     \if@RTL@footnote
14412     \@mpfootinsv@r
14413   \else
14414     \@mpfootinsv@l
14415   \fi
14416   \vbox{%
14417     \unvbox
14418     \if@RTL@footnote
14419     \@mpfootinsv@r
14420   \else
14421     \@mpfootinsv@l
14422   \fi
14423   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14424   \def\baselinestretch{\m@m@footnote@spacing}%
14425   \reset@font\foottextfont
14426   \hsize\columnwidth \@parboxrestore
14427   \protected@edef\@currentlabel{%

```



```

14428     \csname p@mpfootnote\endcsname\@thefnmark}%
14429 \color@begingroup
14430     \@ninecolfootfmt{#1}%
14431 \color@endgroup}%
14432 \m@mmf@prepare}
14433 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14434 \global\setbox\@mpfootinsv@l\vbox{%
14435     \unvbox\@mpfootinsv@l
14436     \@RTLfalse
14437     \def\baselinestretch{\m@m@footnote@spacing}%
14438     \reset@font\LTRfoottextfont
14439     \hsize\columnwidth \@parboxrestore
14440     \protected@edef\@currentlabel{%
14441         \csname p@mpfootnote\endcsname\@thefnmark}%
14442 \color@begingroup
14443     \@ninecolLTRfootfmt{#1}%
14444 \color@endgroup}%
14445 \m@mmf@prepare}
14446 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14447 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14448 \global\setbox\@mpfootinsv@l\vbox{%
14449     \unvbox\@mpfootinsv@l
14450     \@RTLfalse
14451     \def\baselinestretch{\m@m@footnote@spacing}%
14452     \reset@font\LTRfoottextfont
14453     \hsize\columnwidth \@parboxrestore
14454     \protected@edef\@currentlabel{%
14455         \csname p@mpfootnote\endcsname\@thefnmark}%
14456 \color@begingroup
14457     \@ninecolLTRfootfmt{#1}%
14458 \color@endgroup}%
14459 \m@mmf@prepare}
14460 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14461 \global\setbox\@mpfootinsv@r\vbox{%
14462     \unvbox\@mpfootinsv@r
14463     \@RTLtrue
14464     \def\baselinestretch{\m@m@footnote@spacing}%
14465     \reset@font\RTLfoottextfont
14466     \hsize\columnwidth \@parboxrestore
14467     \protected@edef\@currentlabel{%
14468         \csname p@mpfootnote\endcsname\@thefnmark}%
14469 \color@begingroup
14470     \@ninecolRTLfootfmt{#1}%
14471 \color@endgroup}%
14472 \m@mmf@prepare}
14473 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14474 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14475 \global\setbox\@mpfootinsv@r\vbox{%
14476     \unvbox\@mpfootinsv@r
14477     \@RTLtrue
14478     \def\baselinestretch{\m@m@footnote@spacing}%
14479     \reset@font\RTLfoottextfont
14480     \hsize\columnwidth \@parboxrestore
14481     \protected@edef\@currentlabel{%

```



```

14482     \csname p@mpfootnote\endcsname\@thefnmark}%
14483 \color@begingroup
14484     \@ninecolRTLfootfmt{#1}%
14485 \color@endgroup}%
14486 \m@mmf@prepare}
14487 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14488 \@namedef{@ninecol@footgroup#1}{%
14489 \def\baselinestretch{\m@m@footnote@spacing}%
14490 \hsize\bidi@columnwidth
14491 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14492 \m@r@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14493 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14494 \@namedef{@ninecol@LTRfootgroup#1}{%
14495 \def\baselinestretch{\m@m@footnote@spacing}%
14496 \hsize\bidi@columnwidth
14497 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14498 \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14499 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14500 \@namedef{@mpninecol@footgroup#1}{%
14501 \def\baselinestretch{\m@m@footnote@spacing}%
14502 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14503 \m@r@rigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
14504 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14505 \@namedef{@mpninecol@LTRfootgroup#1}{%
14506 \def\baselinestretch{\m@m@footnote@spacing}%
14507 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14508 \bidi@LTR@rigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
14509 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14510 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14511 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14512 \@bidi@before@Hy@hyperfootnotes
14513 \let\@footnotetext\@tencolfootnotetext
14514 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14515 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14516 \dimen\footinsv@r=10\footinsdim
14517 \count\footinsv@r=100\relax
14518 \m@make@tencol@footgroup{v@r}%
14519 \let\@footgroupv@r\@tencol@footgroupv@r
14520 \dimen\footinsv@l=10\footinsdim
14521 \count\footinsv@l=100\relax
14522 \bidi@make@tencol@LTRfootgroup{v@l}%
14523 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14524 \let\@mpfootnotetext\@mptencolfootnotetext
14525 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14526 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14527 \@bidi@after@Hy@hyperfootnotes
14528 \m@make@mptencol@footgroup{v@r}%
14529 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14530 \bidi@make@mptencol@LTRfootgroup{v@l}%
14531 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14532 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14533 }
14534 \newcommand{\TenColumnFootnotes}{%
14535 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

14536 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14537 \@bidi@before@Hy@hyperfootnotes
14538 \let@footnotetext@TenColfootnotetext
14539 \let@LTRfootnotetext@TenColLTRfootnotetext
14540 \let@RTLfootnotetext@TenColRTLfootnotetext
14541 \dimen\footinsv@r=10\footinsdim
14542 \count\footinsv@r=100\relax
14543 \m@make@tencol@footgroup{v@r}%
14544 \let@footgroupv@r@tencol@footgroupv@r
14545 \dimen\footinsv@l=10\footinsdim
14546 \count\footinsv@l=100\relax
14547 \bidi@make@tencol@LTRfootgroup{v@l}%
14548 \let@LTRfootgroupv@l@tencol@LTRfootgroupv@l
14549 \let@mpfootnotetext@mpTenColfootnotetext
14550 \let@mpLTRfootnotetext@mpTenColLTRfootnotetext
14551 \let@mpRTLfootnotetext@mpTenColRTLfootnotetext
14552 \@bidi@after@Hy@hyperfootnotes
14553 \m@make@mptencol@footgroup{v@r}%
14554 \let@mp@footgroupv@r@mptencol@footgroupv@r
14555 \bidi@make@mptencol@LTRfootgroup{v@l}%
14556 \let@mp@LTRfootgroupv@l@mptencol@LTRfootgroupv@l
14557 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14558 }
14559 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14560 \if@RTL@footnote
14561 \footinsv@r
14562 \else
14563 \footinsv@l
14564 \fi
14565 {\if@RTL@footnote@RTLtrue\else@RTLfalse\fi%
14566 \def\baselinestretch{\m@f@footnote@spacing}%
14567 \reset@font\foottextfont
14568 \@preamfntext
14569 \protected@edef\@currentlabel{%
14570 \csname p@footnote\endcsname\@thefnmark}%
14571 \color@begingroup
14572 \@tencolfootfmt{#1}%
14573 \color@endgroup}%
14574 \m@mmf@prepare}
14575 \newcommand{\@TenColfootnotetext}[1]{%
14576 \bidi@step@absolute@footnote@count
14577 \if@RTL@footnote
14578 \bidi@reinsert@footnote\footinsv@l\@footstartv@l@LTRfootgroupv@l
14579 \else
14580 \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
14581 \fi
14582 \global\setbox
14583 \if@RTL@footnote
14584 \footinsv@r
14585 \else
14586 \footinsv@l
14587 \fi
14588 \vbox{%
14589 \unvbox

```




```

14590 \if@RTL@footnote
14591   \footinsv@r
14592 \else
14593   \footinsv@l
14594 \fi
14595 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14596 \def\baselinestretch{\m@m@footnote@spacing}%
14597 \reset@font\foottextfont
14598 \@preamfntext
14599 \protected@edef\@currentlabel{%
14600   \csname p@footnote\endcsname\@thefnmark}%
14601 \color@begingroup
14602   \@tencolfootfmt{#1}%
14603 \color@endgroup}%
14604 \m@mmf@prepare
14605 \if@RTL@footnote
14606   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14607 \else
14608   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14609 \fi
14610 }
14611 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14612 \def\baselinestretch{\m@m@footnote@spacing}%
14613 \reset@font\LTRfoottextfont
14614 \@preamfntext
14615 \protected@edef\@currentlabel{%
14616   \csname p@footnote\endcsname\@thefnmark}%
14617 \color@begingroup
14618   \@tencolLTRfootfmt{#1}%
14619 \color@endgroup}%
14620 \m@mmf@prepare}
14621 \newcommand{\@TenColLTRfootnotetext}[1]{%
14622 \bidi@step@absolute@footnote@count
14623 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14624 \global\setbox\footinsv@l\vbox{%
14625 \unvbox\footinsv@l
14626 \@RTLfalse%
14627 \def\baselinestretch{\m@m@footnote@spacing}%
14628 \reset@font\LTRfoottextfont
14629 \@preamfntext
14630 \protected@edef\@currentlabel{%
14631   \csname p@footnote\endcsname\@thefnmark}%
14632 \color@begingroup
14633   \@tencolLTRfootfmt{#1}%
14634 \color@endgroup}%
14635 \m@mmf@prepare
14636 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14637 }
14638 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14639 \def\baselinestretch{\m@m@footnote@spacing}%
14640 \reset@font\RTLfoottextfont
14641 \@preamfntext
14642 \protected@edef\@currentlabel{%
14643   \csname p@footnote\endcsname\@thefnmark}%

```



```

14644 \color@begingroup
14645   \@tencolRTLfootfmt{#1}%
14646 \color@endgroup}%
14647 \m@mmf@prepare}
14648 \newcommand{\@TenColRTLfootnotetext}[1]{%
14649   \bidi@step@absolutefootnote@count
14650   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14651   \global\setbox\footinsv@r\vbox{%
14652     \unvbox\footinsv@r
14653     \@RTLtrue
14654     \def\baselinestretch{\m@m@footnote@spacing}%
14655     \reset@font\RTLfoottextfont
14656     \@preamfntext
14657     \protected@edef\@currentlabel{%
14658       \csname p@footnote\endcsname\@thefnmark}%
14659     \color@begingroup
14660       \@tencolRTLfootfmt{#1}%
14661     \color@endgroup}%
14662     \m@mmf@prepare
14663     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14664   }
14665 \bidi@ensure@newcommand{\@preamtenfmt}{%
14666   \hspace .1\hspace
14667   \parindent=\z@
14668   \tolerance=5000\relax
14669   \leavevmode}
14670 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14671   \@preamtenfmt
14672   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14673 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14674   \@preamtenfmt
14675   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14676 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14677   \@preamtenfmt
14678   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14679 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14680   \global\setbox
14681     \if@RTL@footnote
14682     \@mpfootinsv@r
14683   \else
14684     \@mpfootinsv@l
14685   \fi
14686   \vbox{%
14687     \unvbox
14688     \if@RTL@footnote
14689     \@mpfootinsv@r
14690   \else
14691     \@mpfootinsv@l
14692   \fi
14693   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14694   \def\baselinestretch{\m@m@footnote@spacing}%
14695   \reset@font\foottextfont
14696   \hspace\columnwidth \@parboxrestore
14697   \protected@edef\@currentlabel{%

```



```

14698     \csname p@mpfootnote\endcsname\@thefnmark}%
14699 \color@begingroup
14700     \@tencolfootfmt{#1}%
14701 \color@endgroup}%
14702 \m@mmf@prepare}
14703 \newcommand{\@mpTenColfootnotetext}[1]{%
14704     \if@RTL@footnote
14705     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14706 \else
14707     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14708 \fi
14709 \global\setbox
14710     \if@RTL@footnote
14711     \@mpfootinsv@r
14712 \else
14713     \@mpfootinsv@l
14714 \fi
14715 \vbox{%
14716     \unvbox
14717     \if@RTL@footnote
14718     \@mpfootinsv@r
14719 \else
14720     \@mpfootinsv@l
14721 \fi
14722     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14723     \def\baselinestretch{\m@m@footnote@spacing}%
14724     \reset@font\foottextfont
14725     \hsize\columnwidth \@parboxrestore
14726     \protected@edef\@currentlabel{%
14727         \csname p@mpfootnote\endcsname\@thefnmark}%
14728 \color@begingroup
14729     \@tencolfootfmt{#1}%
14730 \color@endgroup}%
14731 \m@mmf@prepare}
14732 \bidi@ensure@newcommand{\@mptencollTRfootnotetext}[1]{%
14733 \global\setbox\@mpfootinsv@l\vbox{%
14734     \unvbox\@mpfootinsv@l
14735     \@RTLfalse
14736     \def\baselinestretch{\m@m@footnote@spacing}%
14737     \reset@font\LTRfoottextfont
14738     \hsize\columnwidth \@parboxrestore
14739     \protected@edef\@currentlabel{%
14740         \csname p@mpfootnote\endcsname\@thefnmark}%
14741 \color@begingroup
14742     \@tencollTRfootfmt{#1}%
14743 \color@endgroup}%
14744 \m@mmf@prepare}
14745 \newcommand{\@mpTenCollTRfootnotetext}[1]{%
14746     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14747 \global\setbox\@mpfootinsv@l\vbox{%
14748     \unvbox\@mpfootinsv@l
14749     \@RTLfalse
14750     \def\baselinestretch{\m@m@footnote@spacing}%
14751     \reset@font\LTRfoottextfont

```



```

14752 \hsize\columnwidth \@parboxrestore
14753 \protected@edef\@currentlabel{%
14754 \csname p@mpfootnote\endcsname\@thefnmark}%
14755 \color@begingroup
14756 \@tencolLTRfootfmt{#1}%
14757 \color@endgroup}%
14758 \m@mmf@prepare}
14759 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14760 \global\setbox\@mpfootinsv@r\vbox{%
14761 \unvbox\@mpfootinsv@r
14762 \@RTLtrue
14763 \def\baselinestretch{\m@m@footnote@spacing}%
14764 \reset@font\RTLfoottextfont
14765 \hsize\columnwidth \@parboxrestore
14766 \protected@edef\@currentlabel{%
14767 \csname p@mpfootnote\endcsname\@thefnmark}%
14768 \color@begingroup
14769 \@tencolRTLfootfmt{#1}%
14770 \color@endgroup}%
14771 \m@mmf@prepare}
14772 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14773 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14774 \global\setbox\@mpfootinsv@r\vbox{%
14775 \unvbox\@mpfootinsv@r
14776 \@RTLtrue
14777 \def\baselinestretch{\m@m@footnote@spacing}%
14778 \reset@font\RTLfoottextfont
14779 \hsize\columnwidth \@parboxrestore
14780 \protected@edef\@currentlabel{%
14781 \csname p@mpfootnote\endcsname\@thefnmark}%
14782 \color@begingroup
14783 \@tencolRTLfootfmt{#1}%
14784 \color@endgroup}%
14785 \m@mmf@prepare}
14786 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14787 \@namedef{@tencol@footgroup#1}{%
14788 \def\baselinestretch{\m@m@footnote@spacing}%
14789 \hsize\@bidi@columnwidth
14790 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14791 \m@r@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14792 \newcommand{\@bidi@make@tencol@LTRfootgroup}[1]{%
14793 \@namedef{@tencol@LTRfootgroup#1}{%
14794 \def\baselinestretch{\m@m@footnote@spacing}%
14795 \hsize\@bidi@columnwidth
14796 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14797 \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14798 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14799 \@namedef{@mptencol@footgroup#1}{%
14800 \def\baselinestretch{\m@m@footnote@spacing}%
14801 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14802 \m@r@rigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
14803 \newcommand{\@bidi@make@mptencol@LTRfootgroup}[1]{%
14804 \@namedef{@mptencol@LTRfootgroup#1}{%
14805 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14806 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14807 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}
14808 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14809   \setbox0=\vbox{\unvbox#1%
14810     \global\setbox1=\lastbox}%
14811   \unhbox1
14812   \unskip
14813   \unskip
14814   \unpenalty
14815   \hskip\m@mipn@skip}
14816 \bidi@ensure@newcommand{\m@mungebox}{%
14817   \setbox0=\hbox{\m@munvxh0}%
14818   \dp0=\z@
14819   \ht0=\footfudgefactor\wd0
14820   \box0
14821   \penalty0}
14822 \newskip\m@mipn@skip
14823 \bidi@ensure@newcommand*{\m@minterparanoteglua}[1]{%
14824   {\foottextfont\global\m@mipn@skip=#1\relax}}
14825 \m@minterparanoteglua{1em plus.3em minus.3em}
14826 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14827   \setbox0=\hbox{}%
14828   \loop
14829     \unpenalty
14830     \setbox2=\lastbox
14831     \ifhbox2
14832       \setbox0=\hbox{\box2\unhbox0}
14833     \repeat}
14834 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14835   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14836 \newcommand*{\AddExtraParaSkip}[1]{%
14837   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14838 }
14839 \let\bidi@xparaskip\relax
14840 \@onlypreamble\AddExtraParaSkip
14841 \@onlypreamble\bidi@xparaskip
14842 \def\bidi@startparafootskip#1{%
14843   \global\advance\skip#1\bidi@paraskip
14844 }
14845 \@onlypreamble\bidi@startparafootskip
14846 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14847   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14848   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14849   \@bidi@before@Hy@hyperfootnotes
14850   \let\@footnotetext\@parafootnotetext
14851   \let\@LTRfootnotetext\@paraLTRfootnotetext
14852   \let\@RTLfootnotetext\@paraRTLfootnotetext
14853   \dimen\footinsv@r=\footinsdim
14854   \count\footinsv@r=1000\relax
14855   \let\bidi@removexfootskip\bidi@removexparafootskip
14856   \m@make@para@footgroup{v@r}%
14857   \m@make@para@footstart{v@r}%
14858   \let\@footgroupv@r\@para@footgroupv@r
14859   \let\@footstartv@r\@para@footstartv@r

```



```

14860 \dimen\footinsv@l=\footinsdim
14861 \count\footinsv@l=1000\relax
14862 \bidi@make@para@LTRfootgroup{v@l}%
14863 \m@make@para@footstart{v@l}%
14864 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14865 \let\@footstartv@l\@para@footstartv@l
14866 \let\@mpfootnotetext\@mpparafootnotetext
14867 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14868 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14869 \@bidi@after@Hy@hyperfootnotes
14870 \m@make@mppara@footgroup{v@r}%
14871 \bidi@make@mppara@LTRfootgroup{v@l}%
14872 \let\mp@footgroupv@r\@mppara@footgroupv@r
14873 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14874 \g@addto@macro\bidi@floadhook{%
14875   \begingroup
14876     \foottextfont \@tempdima\normalbaselineskip
14877     \multiply \@tempdima \@cclvi
14878     \@tempdimb \columnwidth
14879     \divide \@tempdimb \@cclvi
14880     \divide \@tempdima \@tempdimb
14881     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14882   \endgroup
14883 }
14884 \AtBeginDocument{%
14885   \begingroup
14886     \foottextfont
14887     \@tempdima\footnotesep
14888     \advance\@tempdima -\ht\strutbox
14889     \ifdim\@tempdima<z@ \@tempdima z@ \fi
14890     \advance\@tempdima.5\normalbaselineskip
14891     \bidi@xparaskip
14892     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14893   \endgroup
14894   \bidi@startparafootskip\footinsv@r
14895   \bidi@startparafootskip\footinsv@l
14896 }
14897 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14898 }
14899 \newcommand{\ParagraphFootnotes}{%
14900   \@namedef{foottextfontv@r}{\foottextfont}%
14901   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14902   \@bidi@before@Hy@hyperfootnotes
14903   \let\@footnotetext\@Parafootnotetext
14904   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14905   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14906   \dimen\footinsv@r=\footinsdim
14907   \count\footinsv@r=1000\relax
14908   \let\bidi@removexfootskip\bidi@removexparafootskip
14909   \m@make@para@footgroup{v@r}%
14910   \m@make@para@footstart{v@r}%
14911   \let\@footgroupv@r\@para@footgroupv@r
14912   \let\@footstartv@r\@para@footstartv@r
14913   \dimen\footinsv@l=\footinsdim

```



```

14914 \count\footinsv@l=1000\relax
14915 \bidi@make@para@LTRfootgroup{v@l}%
14916 \m@make@para@footstart{v@l}%
14917 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14918 \let\@footstartv@l\@para@footstartv@l
14919 \let\@mpfootnotetext\@mpParafootnotetext
14920 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14921 \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14922 \@bidi@after@Hy@hyperfootnotes
14923 \m@make@mppara@footgroup{v@r}%
14924 \bidi@make@mppara@LTRfootgroup{v@l}%
14925 \let\mp@footgroupv@r\@mppara@footgroupv@r
14926 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14927 \g@addto@macro\bidi@floathook{%
14928   \begingroup
14929     \foottextfont \@tempdima\normalbaselineskip
14930     \multiply \@tempdima \@cclvi
14931     \@tempdimb \columnwidth
14932     \divide \@tempdimb \@cclvi
14933     \divide \@tempdima \@tempdimb
14934     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14935   \endgroup
14936 }
14937 \@AtBeginDocument{%
14938   \begingroup
14939     \foottextfont
14940     \@tempdima\footnotesep
14941     \advance\@tempdima -\ht\strutbox
14942     \ifdim\@tempdima<z@ \@tempdima z@ \fi
14943     \advance\@tempdima.5\normalbaselineskip
14944     \bidi@xparaskip
14945     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14946   \endgroup
14947   \bidi@startparafootskip\footinsv@r
14948   \bidi@startparafootskip\footinsv@l
14949 }
14950 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14951 }
14952 \newcommand{\normalRTLparaLTRfootnotes}{%
14953   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14954   \@bidi@before@Hy@hyperfootnotes
14955   \if@RTL@footnote
14956     \let\@footnotetext\m@mold@footnotetext
14957   \else
14958     \let\@footnotetext\@parafootnotetext
14959   \fi
14960   \let\@LTRfootnotetext\@paraLTRfootnotetext
14961   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14962   \dimen\footinsv@l=\footinsdim
14963   \count\footinsv@l=1000\relax
14964   \let\bidi@removexfootskip\bidi@removexparafootskip
14965   \bidi@make@para@LTRfootgroup{v@l}%
14966   \m@make@para@footstart{v@l}%
14967   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l

```



```

14968 \let\@footstartv@1\@para@footstartv@1
14969 \if@RTL@footnote
14970   \let\@mpfootnotetext\m@mold@mpfootnotetext
14971 \else
14972   \let\@mpfootnotetext\@mpparafootnotetext
14973 \fi
14974 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14975 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14976 \@bidi@after@Hy@hyperfootnotes
14977 \bidi@make@ppara@LTRfootgroup{v@1}%
14978 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
14979 \g@addto@macro\bidi@floathook{%
14980   \begingroup
14981   \LTRfoottextfont \@tempdima\normalbaselineskip
14982   \multiply \@tempdima \@cclvi
14983   \@tempdimb \columnwidth
14984   \divide \@tempdimb \@cclvi
14985   \divide \@tempdima \@tempdimb
14986   \xdef\footfudgefactor{\strip@pt\@tempdima}%
14987 \endgroup
14988 }
14989 \AtBeginDocument{%
14990   \begingroup
14991   \LTRfoottextfont
14992   \@tempdima\footnotesep
14993   \advance\@tempdima -\ht\strutbox
14994   \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14995   \advance\@tempdima.5\normalbaselineskip
14996   \bidi@xparaskip
14997   \xdef\bidi@paraskip{\the\@tempdima\relax}%
14998 \endgroup
14999 \bidi@startparafootskip\footinsv@1
15000 }
15001 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15002 }
15003 \newcommand{\NormalRTLParaLTRFootnotes}{%
15004   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15005   \@bidi@before@Hy@hyperfootnotes
15006   \if@RTL@footnote
15007     \let\@footnotetext\bidi@bidiold@footnotetext
15008   \else
15009     \let\@footnotetext\@Parafootnotetext
15010   \fi
15011   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15012   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15013   \dimen\footinsv@1=\footinsdim
15014   \count\footinsv@1=1000\relax
15015   \let\bidi@removexfootskip\bidi@removexparafootskip
15016   \bidi@make@para@LTRfootgroup{v@1}%
15017   \m@make@para@footstart{v@1}%
15018   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
15019   \let\@footstartv@1\@para@footstartv@1
15020   \if@RTL@footnote
15021     \let\@mpfootnotetext\bidi@bidiold@mpfootnotetext

```




```

15022 \else
15023   \let\@mpfootnotetext\@mpParafootnotetext
15024 \fi
15025 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15026 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15027 \@bidi@after@Hy@hyperfootnotes
15028 \bidi@make@mppara@LTRfootgroup{v@1}%
15029 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15030 \g@addto@macro\bidi@floathook{%
15031   \begingroup
15032     \LTRfoottextfont \@tempdima\normalbaselineskip
15033     \multiply \@tempdima \@cclvi
15034     \@tempdimb \columnwidth
15035     \divide \@tempdimb \@cclvi
15036     \divide \@tempdima \@tempdimb
15037     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15038   \endgroup
15039 }
15040 \AtBeginDocument{%
15041   \begingroup
15042     \LTRfoottextfont
15043     \@tempdima\footnotesep
15044     \advance\@tempdima -\ht\strutbox
15045     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15046     \advance\@tempdima.5\normalbaselineskip
15047     \bidi@xparaskip
15048     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15049   \endgroup
15050   \bidi@startparafootskip\footinsv@1
15051 }
15052 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15053 }
15054 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15055   \if@RTL@footnote
15056     \footinsv@r
15057   \else
15058     \footinsv@l
15059   \fi
15060   {%
15061     \let\bidi@RTL@everypar\@empty%
15062     \def\baselinestretch{\m@m@footnote@spacing}%
15063     \reset@font\foottextfont
15064     \@preamfntext
15065     \protected@edef\@currentlabel{%
15066       \csname p@footnote\endcsname\@thefnmark}%
15067     \setbox0=\vbox{\hsize=\maxdimen
15068       \color@begingroup
15069         \noindent \@parafootfmt{#1}%
15070       \color@endgroup}%
15071     \m@mungebox}\m@mmf@prepare}
15072 \newcommand{\@Parafootnotetext}[1]{%
15073   \bidi@step@absolutefootnote@count
15074   \if@RTL@footnote
15075     \bidi@reinsertfootnote\footinsv@l\@footstartv@1\@LTRfootgroupv@1

```



```

15076 \else
15077   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15078 \fi
15079 \global\setbox
15080 \if@RTL@footnote
15081   \footinsv@r
15082 \else
15083   \footinsv@l
15084 \fi
15085 \vbox{%
15086 \unvbox
15087 \if@RTL@footnote
15088   \footinsv@r
15089 \else
15090   \footinsv@l
15091 \fi
15092 \let\bidi@RTL@everypar\@empty%
15093 \def\baselinestretch{\m@m@footnote@spacing}%
15094 \reset@font\foottextfont
15095 \@preamfntext
15096 \protected@edef\@currentlabel{%
15097   \csname p@footnote\endcsname\@thefnmark}%
15098 \setbox0=\vbox{\hsize=\maxdimen
15099   \color@begingroup
15100   \noindent \@parafootfmt{#1}%
15101   \color@endgroup}%
15102 \m@mungebox}\m@mmf@prepare
15103 \if@RTL@footnote
15104   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15105 \else
15106   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15107 \fi
15108 }
15109 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15110 \let\bidi@RTL@everypar\@empty%
15111 \def\baselinestretch{\m@m@footnote@spacing}%
15112 \reset@font\LTRfoottextfont
15113 \@preamfntext
15114 \protected@edef\@currentlabel{%
15115   \csname p@footnote\endcsname\@thefnmark}%
15116 \setbox0=\vbox{\hsize=\maxdimen
15117   \color@begingroup
15118   \noindent \@paraLTRfootfmt{#1}%
15119   \color@endgroup}%
15120 \m@mungebox}\m@mmf@prepare}
15121 \newcommand{\@ParaLTRfootnotetext}[1]{%
15122 \bidi@step@absolute@footnote@count
15123 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15124 \global\setbox\footinsv@l\vbox{%
15125 \unvbox\footinsv@l
15126 \let\bidi@RTL@everypar\@empty%
15127 \def\baselinestretch{\m@m@footnote@spacing}%
15128 \reset@font\LTRfoottextfont
15129 \@preamfntext

```



```

15130 \protected@edef\@currentlabel{%
15131   \csname p@footnote\endcsname\@thefnmark}%
15132 \setbox0=\vbox{\hsize=\maxdimen
15133   \color@begingroup
15134   \noindent \@paraLTRfootfmt{#1}%
15135   \color@endgroup}%
15136 \m@mmungebox}\m@mmf@prepare
15137 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15138 }
15139 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15140   \let\bidi@RTL@everypar\@empty%
15141   \def\baselinestretch{\m@mm@footnote@spacing}%
15142   \reset@font\RTLfoottextfont
15143   \@preamfntext
15144   \protected@edef\@currentlabel{%
15145     \csname p@footnote\endcsname\@thefnmark}%
15146   \setbox0=\vbox{\hsize=\maxdimen
15147     \color@begingroup
15148     \noindent \@paraRTLfootfmt{#1}%
15149     \color@endgroup}%
15150   \m@mmungebox}\m@mmf@prepare}
15151 \newcommand{\@ParaRTLfootnotetext}[1]{%
15152   \bidi@step@absolutefootnote@count
15153   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15154   \global\setbox\footinsv@r\vbox{%
15155     \unvbox\footinsv@r
15156     \let\bidi@RTL@everypar\@empty%
15157     \def\baselinestretch{\m@mm@footnote@spacing}%
15158     \reset@font\RTLfoottextfont
15159     \@preamfntext
15160     \protected@edef\@currentlabel{%
15161       \csname p@footnote\endcsname\@thefnmark}%
15162     \setbox0=\vbox{\hsize=\maxdimen
15163       \color@begingroup
15164       \noindent \@paraRTLfootfmt{#1}%
15165       \color@endgroup}%
15166     \m@mmungebox}\m@mmf@prepare
15167     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15168 }
15169 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15170   \parindent=\z@
15171   \parfillskip=0pt \@plus 1fil
15172   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15173 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15174   \parindent=\z@
15175   \parfillskip=0pt \@plus 1fil
15176   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15177 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15178   \parindent=\z@
15179   \parfillskip=0pt \@plus 1fil
15180   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15181 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15182   \global\setbox
15183   \if@RTL@footnote

```



```

15184 \mpfootinsv@r
15185 \else
15186 \mpfootinsv@l
15187 \fi
15188 \vbox{%
15189 \unvbox
15190 \if@RTL@footnote
15191 \mpfootinsv@r
15192 \else
15193 \mpfootinsv@l
15194 \fi
15195 \let\bidir@RTL@everypar\@empty
15196 \def\baselinestretch{\m@m@footnote@spacing}%
15197 \reset@font\foottextfont
15198 \hsize\columnwidth \@parboxrestore
15199 \protected@edef\@currentlabel{%
15200 \csname p@mpfootnote\endcsname\@thefnmark}%
15201 \setbox0=\vbox{\hsize=\maxdimen
15202 \color@begingroup
15203 \noindent \@parafootfmt{#1}%
15204 \color@endgroup}%
15205 \m@mungebox}\m@mmf@prepare}
15206 \newcommand{\@mpParafootnotetext}[1]{%
15207 \if@RTL@footnote
15208 \bidi@joinmpfootnotes\mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15209 \else
15210 \bidi@joinmpfootnotes\mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15211 \fi
15212 \global\setbox
15213 \if@RTL@footnote
15214 \mpfootinsv@r
15215 \else
15216 \mpfootinsv@l
15217 \fi
15218 \vbox{%
15219 \unvbox
15220 \if@RTL@footnote
15221 \mpfootinsv@r
15222 \else
15223 \mpfootinsv@l
15224 \fi
15225 \let\bidir@RTL@everypar\@empty
15226 \def\baselinestretch{\m@m@footnote@spacing}%
15227 \reset@font\foottextfont
15228 \hsize\columnwidth \@parboxrestore
15229 \protected@edef\@currentlabel{%
15230 \csname p@mpfootnote\endcsname\@thefnmark}%
15231 \setbox0=\vbox{\hsize=\maxdimen
15232 \color@begingroup
15233 \noindent \@parafootfmt{#1}%
15234 \color@endgroup}%
15235 \m@mungebox}\m@mmf@prepare}
15236 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15237 \global\setbox\mpfootinsv@l\vbox{%

```



```

15238 \unvbox\@mpfootinsv@l
15239 \let\bidirTL@everypar\@empty
15240 \def\baselinestretch{\m@m@footnote@spacing}%
15241 \reset@font\LTRfoottextfont
15242 \hsize\columnwidth \@parboxrestore
15243 \protected@edef\@currentlabel{%
15244   \csname p@mpfootnote\endcsname\@thefnmark}%
15245 \setbox0=\vbox{\hsize=\maxdimen
15246   \color@begingroup
15247   \noindent \@paraLTRfootfmt{#1}%
15248   \color@endgroup}%
15249 \m@mungebox}\m@mmf@prepare}
15250 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15251   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15252   \global\setbox\@mpfootinsv@l\vbox{%
15253     \unvbox\@mpfootinsv@l
15254     \let\bidirTL@everypar\@empty
15255     \def\baselinestretch{\m@m@footnote@spacing}%
15256     \reset@font\LTRfoottextfont
15257     \hsize\columnwidth \@parboxrestore
15258     \protected@edef\@currentlabel{%
15259       \csname p@mpfootnote\endcsname\@thefnmark}%
15260     \setbox0=\vbox{\hsize=\maxdimen
15261       \color@begingroup
15262       \noindent \@paraLTRfootfmt{#1}%
15263       \color@endgroup}%
15264     \m@mungebox}\m@mmf@prepare}
15265 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15266   \global\setbox\@mpfootinsv@r\vbox{%
15267     \unvbox\@mpfootinsv@r
15268     \let\bidirTL@everypar\@empty
15269     \def\baselinestretch{\m@m@footnote@spacing}%
15270     \reset@font\RTLfoottextfont
15271     \hsize\columnwidth \@parboxrestore
15272     \protected@edef\@currentlabel{%
15273       \csname p@mpfootnote\endcsname\@thefnmark}%
15274     \setbox0=\vbox{\hsize=\maxdimen
15275       \color@begingroup
15276       \noindent \@paraRTLfootfmt{#1}%
15277       \color@endgroup}%
15278     \m@mungebox}\m@mmf@prepare}
15279 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15280   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15281   \global\setbox\@mpfootinsv@r\vbox{%
15282     \unvbox\@mpfootinsv@r
15283     \let\bidirTL@everypar\@empty
15284     \def\baselinestretch{\m@m@footnote@spacing}%
15285     \reset@font\RTLfoottextfont
15286     \hsize\columnwidth \@parboxrestore
15287     \protected@edef\@currentlabel{%
15288       \csname p@mpfootnote\endcsname\@thefnmark}%
15289     \setbox0=\vbox{\hsize=\maxdimen
15290       \color@begingroup
15291       \noindent \@paraRTLfootfmt{#1}%

```



```

15292     \color@endgroup}%
15293     \m@mungebox}\m@mmf@prepare}
15294 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15295 \@namedef{@para@footgroup#1}{%
15296   \unvbox\@nameuse{footins#1}
15297   \@RTLtrue
15298   \m@mmakehboxofhboxes
15299   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15300   \hsize\bidi@columnwidth
15301   \@parboxrestore
15302   \def\baselinestretch{\m@m@footnote@spacing}%
15303   \@nameuse{foottextfont#1}%
15304   \noindent\unhbox0\par}}
15305 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15306 \@namedef{@para@LTRfootgroup#1}{%
15307   \unvbox\@nameuse{footins#1}
15308   \@RTLfalse
15309   \m@mmakehboxofhboxes
15310   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15311   \hsize\bidi@columnwidth
15312   \@parboxrestore
15313   \def\baselinestretch{\m@m@footnote@spacing}%
15314   \@nameuse{foottextfont#1}%
15315   \noindent\unhbox0\par}}
15316 \newcommand{\bidi@removexparafootskip}{%
15317   \advance\@tempskipa -\bidi@paraskip
15318   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15319 }
15320 \let\bidi@removexfootskip\relax
15321 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15322 \@namedef{@mppara@footgroup#1}{%
15323   \unvbox\@nameuse{@mpfootins#1}
15324   \@RTLtrue
15325   \m@mmakehboxofhboxes
15326   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15327   \def\baselinestretch{\m@m@footnote@spacing}%
15328   \@nameuse{foottextfont#1}%
15329   \noindent\unhbox0\par}}
15330 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15331 \@namedef{@mppara@LTRfootgroup#1}{%
15332   \unvbox\@nameuse{@mpfootins#1}
15333   \@RTLfalse
15334   \m@mmakehboxofhboxes
15335   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15336   \def\baselinestretch{\m@m@footnote@spacing}%
15337   \@nameuse{foottextfont#1}%
15338   \noindent\unhbox0\par}}
15339 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15340 \@namedef{@para@footstart#1}{%
15341   \leftskip=\z@
15342   \rightskip=\z@
15343   \parindent=\z@
15344   }%
15345 }

```



```

15346 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15347   \xdef\@freelist{\@freelist\@midlist}%
15348   \global\let\@midlist\@empty
15349   \@combinefloats}
15350 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15351   \ifvbox\@kludgeins
15352     \@makespecialcolbox
15353   \else
15354     \setbox\@outputbox \vbox to\@colht{%
15355       \@texttop
15356       \dimen@ \dp\@outputbox
15357       \unvbox \@outputbox
15358       \vskip -\dimen@
15359       \@textbottom}%
15360   \fi}
15361 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15362 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15363   \boxmaxdepth\@maxdepth
15364   \@tempdima\dp\@cclv
15365   \unvbox\@cclv
15366   \vskip-\@tempdima
15367   \bidi@mopfn@bottom
15368   \vskip \skip\footins
15369   \color@begingroup
15370     \normalcolor
15371     \footnoterule
15372     \unvbox \footins
15373   \color@endgroup
15374   }%
15375 }
15376 \newcommand*{\bidi@mopfootnotebf}{%
15377   \setbox\@outputbox \vbox{%
15378     \boxmaxdepth\@maxdepth
15379     \unvbox\@outputbox
15380     \bidi@mopfn@bottom
15381     \vskip\skip\footins
15382     \color@begingroup
15383       \normalcolor
15384       \footnoterule
15385       \unvbox \footins
15386     \color@endgroup
15387   }%
15388 }
15389 \gdef\mem@makecol{%
15390   \m@m@makecolintro
15391   \m@m@doextrafeet
15392   \ifvoid\footins
15393     \setbox\@outputbox \box\@cclv
15394   \else
15395     \m@mopfootnote
15396   \fi
15397   \m@m@makecolfloats
15398   \m@m@makecoltext
15399   \global \maxdepth \@maxdepth}

```



```

15400 \gdef\bidi@makecolbf{%
15401 \m@m@makecolintro
15402 \m@mdoextrafeet
15403 \setbox\@outputbox \box\@cclv
15404 \m@m@makecolfloats
15405 \ifvoid\footins
15406 \else
15407 \bidi@mopfootnotebf
15408 \fi
15409 \m@m@makecoltext
15410 \global \maxdepth \@maxdepth}
15411 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15412 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15413 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15414 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15415 \FeetAboveFloat
15416 \FeetBelowRagged
15417 \def\bidi@reinserts#1{\ifvoid#1\else
15418 \ifnum\count\@currbox>\z@
15419 \advance\@pageht \ht#1%
15420 \advance\@pageht \skip#1%
15421 \advance\@pageht \dp#1%
15422 \fi
15423 \insert#1{\unvbox#1}%
15424 \fi
15425 }
15426 \def\bidi@init@multi@footins#1{%
15427 \multiply\count#1\col@number
15428 \multiply\skip#1\col@number
15429 }
15430 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15431 \insert#1{}\fi}
15432 \AtBeginDocument{%
15433 \bidi@preto\@doclearpage\m@mdoextrafeet
15434 \g@addto@macro\@reinserts{%
15435 \bidi@reinserts\footinsv@r
15436 \bidi@reinserts\footinsv@l
15437 }
15438 \bidi@floathook
15439 \g@addto@macro\@floatplacement{%
15440 \bidi@ifmulticol}{\bidi@floathook}%
15441 }%
15442 \if@bidi@csundef{multi@column@out}{%
15443 \onlypreamble\bidi@init@multi@footins
15444 \let\bidi@ifmulticol\@secondoftwo
15445 }{%
15446 \bidi@preto\multi@column@out\m@mdoextrafeet
15447 \g@addto@macro\init@mult@footins{%
15448 \bidi@init@multi@footins\footinsv@r
15449 \bidi@init@multi@footins\footinsv@l
15450 }%
15451 \g@addto@macro\reinsert@footnotes{%
15452 \bidi@reinsert@footnotes\footinsv@r
15453 \bidi@reinsert@footnotes\footinsv@l

```




```

15454 }%
15455 }%
15456 }

```

87 File extreport-xetex-bidi.def

```

15457 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15458 \renewcommand*\l@part[2]{%
15459   \ifnum \c@tocdepth >-2\relax
15460     \addpenalty{-\@highpenalty}%
15461     \addvspace{2.25em \@plus\p@}%
15462     \begingroup
15463       \setlength\@tempdima{3em}%
15464       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15465       \parfillskip -\@pnumwidth
15466       {\leavevmode
15467         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15468       \nobreak
15469       \global\@nobreaktrue
15470       \everypar{\global\@nobreakfalse\everypar{}}%
15471     \endgroup
15472   \fi}
15473 \renewcommand*\l@chapter[2]{%
15474   \ifnum \c@tocdepth >\m@ne
15475     \addpenalty{-\@highpenalty}%
15476     \vskip 1.0em \@plus\p@
15477     \setlength\@tempdima{1.5em}%
15478     \begingroup
15479       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15480       \parfillskip -\@pnumwidth
15481       \leavevmode \bfseries
15482       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15483       \hskip -\if@RTL\rightskip\else\leftskip\fi
15484       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15485       \penalty\@highpenalty
15486     \endgroup
15487   \fi}
15488 \def\@makechapterhead#1{%
15489   \vspace*{50\p@}%
15490   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15491     \ifnum \c@secnumdepth >\m@ne
15492       \huge\bfseries \@chapapp\space \thechapter
15493       \par\nobreak
15494       \vskip 20\p@
15495     \fi
15496     \interlinepenalty\@M
15497     \Huge \bfseries #1\par\nobreak
15498     \vskip 40\p@
15499   }}
15500 \def\@makeschapterhead#1{%
15501   \vspace*{50\p@}%
15502   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15503     \normalfont
15504     \interlinepenalty\@M

```



```

15505 \Huge \bfseries #1\par\nobreak
15506 \vskip 40\p@
15507 }
15508 \renewcommand\left@footnoterule{%
15509 \kern-3\p@
15510 \hrule\@width.4\columnwidth
15511 \kern2.6\p@}
15512 \renewcommand\right@footnoterule{%
15513 \kern-3\p@
15514 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15515 \kern2.6\p@}
15516 \renewenvironment{thebibliography}[1]
15517 {\chapter*{\bibname
15518 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15519 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15520 \bidi@thebibliography@font@hook%
15521 \list{\@biblabel{\@arabic\c@enumiv}}%
15522 {\settowidth\labelwidth{\@biblabel{#1}}%
15523 \leftmargin\labelwidth
15524 \advance\leftmargin\labelsep
15525 \@openbib@code
15526 \usecounter{enumiv}%
15527 \let\p@enumiv\@empty
15528 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15529 \sloppy\clubpenalty4000\widowpenalty4000%
15530 \sfcode\.\@m
15531 {\def\@noitemerr
15532 {\@latex@warning{Empty `thebibliography' environment}}}%
15533 \endlist}
15534 \if@titlepage
15535 \renewcommand\maketitle{\begin{titlepage}%
15536 \let\footnotesize\small
15537 \let\right@footnoterule\relax
15538 \let\left@footnoterule\relax
15539 \let\textwidth\footnoterule\relax
15540 \let\footnote\thanks
15541 \null\vfil
15542 \vskip 60\p@
15543 \begin{center}%
15544 {\LARGE \@title \par}%
15545 \vskip 3em%
15546 {\large
15547 \lineskip .75em%
15548 \begin{tabular}[t]{c}%
15549 \@author
15550 \end{tabular}\par}%
15551 \vskip 1.5em%
15552 {\large \@date \par}% % Set date in \large size.
15553 \end{center}\par
15554 \@thanks
15555 \vfil\null
15556 \end{titlepage}%
15557 \setcounter{footnote}{0}%
15558 \global\let\thanks\relax

```



```

15559 \global\let\maketitle\relax
15560 \global\let\@thanks\@empty
15561 \global\let\@author\@empty
15562 \global\let\@date\@empty
15563 \global\let\@title\@empty
15564 \global\let\title\relax
15565 \global\let\author\relax
15566 \global\let\date\relax
15567 \global\let\and\relax
15568 }
15569 \else
15570 \renewcommand\maketitle{\par
15571 \begingroup
15572   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15573   \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15574   \long\def\@makefntext##1{\parindent 1em\noindent
15575     \hb@xt@1.8em{%
15576       \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15577   \if@twocolumn
15578     \ifnum \col@number=\@ne
15579       \@maketitle
15580     \else
15581       \twocolumn[\@maketitle]%
15582     \fi
15583   \else
15584     \newpage
15585     \global\@topnum\z@ % Prevents figures from going at top of page.
15586     \@maketitle
15587   \fi
15588   \thispagestyle{plain}\@thanks
15589 \endgroup
15590 \setcounter{footnote}{0}%
15591 \global\let\thanks\relax
15592 \global\let\maketitle\relax
15593 \global\let\@maketitle\relax
15594 \global\let\@thanks\@empty
15595 \global\let\@author\@empty
15596 \global\let\@date\@empty
15597 \global\let\@title\@empty
15598 \global\let\title\relax
15599 \global\let\author\relax
15600 \global\let\date\relax
15601 \global\let\and\relax
15602 }
15603 \def\@maketitle{%
15604 \newpage
15605 \null
15606 \vskip 2em%
15607 \begin{center}%
15608 \let \footnote \thanks
15609   {\LARGE \@title \par}%
15610   \vskip 1.5em%
15611   {\large
15612     \lineskip .5em%

```



```

15613     \begin{tabular}[t]{c}%
15614         \@author
15615     \end{tabular}\par}%
15616     \vskip 1em%
15617     {\large \@date}%
15618 \end{center}%
15619 \par
15620 \vskip 1.5em}
15621 \fi
15622 \renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
15623 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
15624 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15625 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15626 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15627 \renewcommand\theequation{%
15628 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15629 \renewcommand\thefigure{%
15630 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15631 \renewcommand\thetable{%
15632 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

15633 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15634 \def\fancy@oval#1#2#3{%
15635     \boxmaxdepth \maxdimen
15636     \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15637     \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15638     \@ovxx#1\relax
15639     \advance\@ovxx-\@wholewidth
15640     \@ovyy#2\relax
15641     \advance\@ovyy-\@wholewidth
15642     \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15643     \advance\@tempdimb-2\p@
15644     \ifdim\@tempdimb>\the@cornersize\relax
15645         \@tempdimb=\the@cornersize
15646     \fi
15647     \@getcirc\@tempdimb
15648     \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15649     \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15650     \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15651     \@circlefnt
15652     \setbox\@tempboxa\hbox{\beginL%
15653         \if@ovr \@ovvert32\kern -\@tempdima \fi
15654         \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15655         \if@ovt \@ovhorz \kern -\@ovxx \fi
15656         \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15657     \advance\@ovdx\@ovro
15658     \advance\@ovdy\@ovro
15659     \advance\@ovxx\@wholewidth
15660     \wd\@tempboxa=\@ovxx
15661     \dp\@tempboxa=\z@}

```



89 File fancyhdr-xetex-bidi.def

```
15662 \ProvidesFile{fancyhdr-xetex-bidi.def}[2024/12/07 v0.8 bidi adaptations for fancyhdr package]
15663
15664 \let\f@nch@everypar\everypar
15665
15666 \bidi@patchcmd\f@nch@head\raggedright\bidi@raggedright
15667 {}{\bidi@warningnoline{Oops! patching `string\f@nch@head' failed}}
15668 \bidi@patchcmd\f@nch@head\raggedleft\bidi@raggedleft
15669 {}{\bidi@warningnoline{Oops! patching `string\f@nch@head' failed}}
15670
15671 \bidi@patchcmd\f@nch@foot\raggedright\bidi@raggedright
15672 {}{\bidi@warningnoline{Oops! patching `string\f@nch@foot' failed}}
15673 \bidi@patchcmd\f@nch@foot\raggedleft\bidi@raggedleft
15674 {}{\bidi@warningnoline{Oops! patching `string\f@nch@foot' failed}}
15675
```

90 File fix2col-xetex-bidi.def

```
15676 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15677 \def\RTL@outputdblcol{%
15678   \if@firstcolumn
15679     \global\@firstcolumnfalse
15680     \global\setbox\@leftcolumn\copy\@outputbox
15681     \splitmaxdepth\maxdimen
15682     \vbadness\maxdimen
15683     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15684     \toks@\expandafter{\topmark}%
15685     \xdef\@firstcoltopmark{\the\toks@}%
15686     \toks@\expandafter{\splitfirstmark}%
15687     \xdef\@firstcolfirstmark{\the\toks@}%
15688     \ifx\@firstcolfirstmark\@empty
15689       \global\let\@setmarks\relax
15690     \else
15691       \gdef\@setmarks{%
15692         \let\firstmark\@firstcolfirstmark
15693         \let\topmark\@firstcoltopmark}%
15694     \fi
15695 \else \global\@firstcolumntrue
15696 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15697 \hskip \columnwidth
15698 \hfil \vrule width\columnseprule \hfil
15699 \hbox to\columnwidth {%
15700 \bidi@firstcolumn@status@write%
15701 \box\@leftcolumn \hss}%
15702 \hskip -\textwidth
15703 \hbox to\columnwidth{%
15704 \bidi@lastcolumn@status@write%
15705 \box\@outputbox \hss}%
15706 \hskip \columnsep
15707 \hskip \columnwidth }}%
15708 \@combinedblfloats \@setmarks \@outputpage
15709 \begingroup \@dblfloatplacement \@startdblcolumn
15710 \@whiles\if@fcolmade \fi
```



```

15711 {\@outputpage \@startdblcolumn }\endgroup
15712 \fi}
15713 \def\LTR@outputdblcol{%
15714   \if@firstcolumn
15715     \global\@firstcolumnfalse
15716     \global\setbox\@leftcolumn\copy\@outputbox
15717     \splitmaxdepth\maxdimen
15718     \vbadness\maxdimen
15719     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15720     \toks@\expandafter{\topmark}%
15721     \xdef\@firstcoltopmark{\the\toks@}%
15722     \toks@\expandafter{\splitfirstmark}%
15723     \xdef\@firstcolfirstmark{\the\toks@}%
15724     \ifx\@firstcolfirstmark\@empty
15725       \global\let\@setmarks\relax
15726     \else
15727       \gdef\@setmarks{%
15728         \let\firstmark\@firstcolfirstmark
15729         \let\topmark\@firstcoltopmark}%
15730     \fi
15731   \else
15732     \global\@firstcolumntrue
15733     \setbox\@outputbox\vbox{%
15734       \hb@xt@\textwidth{%
15735         \hb@xt@\columnwidth{%
15736           \bidi@firstcolumn@status@write%
15737           \box\@leftcolumn \hss}%
15738         \hfil
15739         \vrule \@width\columnseprule
15740         \hfil
15741         \hb@xt@\columnwidth{%
15742           \bidi@lastcolumn@status@write%
15743           \box\@outputbox \hss}}}%
15744   \@combinedblfloats
15745   \@setmarks
15746   \@outputpage
15747   \beginngroup
15748   \@dblfloatplacement
15749   \@startdblcolumn
15750   \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15751   \endgroup
15752 \fi}

```

91 File fleqn-xetex-bidi.def

```

15753 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15754 \DeclareRobustCommand\[{ \relax
15755     \ifmmode\@badmath
15756     \else
15757       \begin{trivlist}%
15758         \@beginparpenalty\predisplaypenalty
15759         \@endparpenalty\postdisplaypenalty
15760         \item[]\leavevmode
15761         \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$

```



```

15762             \hskip\mathindent\bgroup
15763             \fi}
15764 \DeclareRobustCommand\{\relax
15765             \ifmmode
15766             \egroup $\hfil% $
15767             \endL\egroup
15768             \end{trivlist}%
15769             \else \@badmath
15770             \fi}
15771 \renewenvironment{equation}%
15772   {\@beginparpenalty\predisplaypenalty
15773   \@endparpenalty\postdisplaypenalty
15774   \refstepcounter{equation}%
15775   \trivlist \item[]\leavevmode
15776   \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15777   \displaystyle
15778   \hskip\mathindent}%
15779   {$\hfil % $
15780   \displaywidth\linewidth\hbox{\@eqnnum}%
15781   \endL\egroup
15782   \endtrivlist}

```

92 File float-xetex-bidi.def

```

15783 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15784 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15785 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15786 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15787 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%
15788 \expandafter\edef\csname the#1\endcsname{%
15789 \expandafter\noexpand\csname
15790 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15791 {\PackageWarning{float}{Can't redefine counter variable for #1.}}

```

93 File floatrow-xetex-bidi.def

```

15792 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15793 \RequirePackage{color}
15794 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15795 \expandafter\edef\csname the\FB@captype\endcsname{%
15796 \expandafter\noexpand\csname
15797 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}}

```

94 File flowfram-xetex-bidi.def

```

15798 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package
15799 \def\@outputdblcol{%
15800 \c@nxtcol=\c@thisframe
15801 \c@curpg=\c@page
15802 \@g@tnextcol{\c@nxtcol}%
15803 \if@ff@nwp % next flow frame starts on new page
15804 \global\@firstcolumntrue
15805 \@setcolbox\c@thisframe
15806 \if@specialpage

```



```

15807 \global\@specialpagefalse
15808 \nameuse{ps@\@specialstyle}\relax
15809 \fi
15810 \if@twoside
15811 \ifodd\count\z@
15812 \let\@thehead\@oddhead
15813 \let\@thefoot\@oddfoot
15814 \else
15815 \let\@thehead\@evenhead
15816 \let\@thefoot\@evenfoot
15817 \fi
15818 \else
15819 \let\@thehead\@oddhead
15820 \let\@thefoot\@oddfoot
15821 \fi
15822 \@beginndvi
15823 \@dodynamicthehead\@dodynamicthefoot
15824 \vbadness=\@M
15825 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15826 \@combinedblfloats
15827 \@outputpage
15828 \advance\c@curpg by -\c@page\relax
15829 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15830 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15831 \@outputpage}
15832 \beginngroup
15833 \@dblfloatplacement
15834 \@startdblcolumn
15835 \@whilesw \if@fcolmade \fi
15836 {\@outputpage \@startdblcolumn }\endgroup
15837 \@resetst@tics
15838 \@resetdyn@mics
15839 \else % still on same page, save contents of box255
15840 \global\@firstcolumnfalse
15841 \@setcolbox\c@thisframe
15842 \fi
15843 \global\c@thisframe=\@nxtcol
15844 \@setcol{\c@thisframe}\relax
15845 \global\@colht\vsiz
15846 }
15847 \def\@outputpage{%
15848 \beginngroup
15849 \let\protect\noexpand
15850 \@resetactivechars
15851 \global\let\@if@newlist@if@newlist
15852 \global\@newlistfalse\@parboxrestore
15853 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15854 \bidi@beforeoutputpageshipouthook
15855 \shipout\vbox{\set@typeset@protect
15856 \aftergroup
15857 \endgroup
15858 \aftergroup
15859 \set@typeset@protect
15860 \reset@font\normalsize

```




```

15861 \bidi@font@@outputpage
15862 \normalsfcodes
15863 \let\label\@gobble
15864 \let\index\@gobble
15865 \let\glossary\@gobble
15866 \baselineskip\z@skip
15867 \lineskip\z@skip
15868 \lineskiplimit\z@
15869 \vskip\topmargin\moveright\@themargin
15870 \vbox{%
15871 \global\let\bidi@BeforeHeader\@firstofone
15872 \bidi@beforeheaderhook
15873 \vskip\headheight
15874 \vskip\headsep
15875 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
15876 \bidi@beforeoutputboxoutputpagehook
15877 \box\@outputbox
15878 \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
15879 \bidi@afteroutputboxoutputpagehook
15880 }%
15881 \global\let\bidi@AfterOutputPageShipOut\@firstofone
15882 \bidi@afteroutputpageshipouthook
15883 \global\let\if@newlist\@if@newlist
15884 \stepcounter{page}%
15885 \setcounter{displayedframe}{0}%
15886 \let\firstmark\botmark
15887 \global\let\bidi@AtEndOutputPage\@firstofone
15888 \bidi@atendoutputpagehook
15889 }
15890
15891
15892 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
15893 \expandafter\bidicolor\ff@txtcol}}
15894
15895 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15896 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15897
15898
15899 \renewcommand*\@docolbox}[1]{%
15900 \edef\ff@frametype{%
15901 \csname @ff@frametype@\romannumeral#1\endcsname}%
15902 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15903 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15904 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15905 \@ff@setoffset{#1}%
15906 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
15907 \ifthenelse{\boolean{columnframe\romannumeral#1}}{}}%
15908 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15909 {\csname colheight\romannumeral#1\endcsname}{%
15910 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15911 \csname\ff@frametype\endcsname}%
15912 }%
15913 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15914 {\csname colheight\romannumeral#1\endcsname}{%

```



```

15915 \expandafter\box\csgname column\romannumeral#1\endcsgname}%
15916 }}}
15917 \IfClassLoadedT{book}{%
15918 \renewcommand\theequation
15919   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15920 \renewcommand \thefigure
15921   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15922 \renewcommand \thetable
15923   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15924 \renewcommand \thechapter {\@arabic\c@chapter}
15925 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15926 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15927 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15928 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15929 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15930 \IfClassLoadedT{report}{%
15931 \renewcommand\theequation
15932   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15933 \renewcommand \thefigure
15934   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15935 \renewcommand \thetable
15936   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15937 \renewcommand \thechapter {\@arabic\c@chapter}
15938 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15939 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15940 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15941 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15942 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15943 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15944 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
15945 \else
15946 #2\relax
15947 \fi}

```

95 File footnote-xetex-bidi.def

```

15948 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15949 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15950 \newif\ifbidi@autofooterule
15951 \def\bidi@mpfootnoterule{\footnoterule}
15952 \newcounter{footdir@label}
15953 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15954 \newcommand*{\footdir@write}{%
15955   \stepcounter{footdir@label}%
15956   \zref@labelbyprops{\thefootdir@label}{abspage}%
15957 }
15958 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15959 \newtoks\footdir@toks
15960 \newcommand*{\footdir@debug}[1]{%
15961   \iffootdir@debug
15962     \typeout{[footdir] #1}%
15963   \fi
15964 }
15965 %\@ifpackagelater{zref-abspage}{2012/10/27}{%

```



```

15966 % \newcommand*{\footdir@LeftRightElse}{%
15967 %   \ltx@ifundefined{footdir@\the\value{zabspage}}{%
15968 %     \footdir@debug{abspage \the\value{zabspage}: else}%
15969 %     \ltx@thirdofthree
15970 %   }{%
15971 %     \if\csname footdir@\the\value{zabspage}\endcsname L%
15972 %       \footdir@debug{abspage \the\value{zabspage}: left}%
15973 %       \expandafter\ltx@firstofthree
15974 %     \else
15975 %       \footdir@debug{abspage \the\value{zabspage}: right}%
15976 %       \expandafter\ltx@secondofthree
15977 %     \fi
15978 %   }%
15979 % }%
15980 %}{%
15981 \providecommand*{\c@zabspage}{\c@abspage}%
15982 \newcommand*{\footdir@LeftRightElse}{%
15983   \footdir@write
15984   \zifrefundefined{\thefootdir@label}{%
15985     \footdir@debug{abspage ??: else}%
15986     \ltx@thirdofthree
15987   }{%
15988     \edef\footdir@abspage{%
15989       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
15990     }%
15991     \ltx@ifundefined{footdir@\footdir@abspage}{%
15992       \footdir@debug{\footdir@abspage: else}%
15993       \ltx@thirdofthree
15994     }{%
15995       \if\csname footdir@\footdir@abspage\endcsname L%
15996         \footdir@debug{\footdir@abspage: left}%
15997         \expandafter\ltx@firstofthree
15998       \else
15999         \footdir@debug{\footdir@abspage: right}%
16000         \expandafter\ltx@secondofthree
16001       \fi
16002     }%
16003   }%
16004 }%
16005 %}
16006 \newcommand*{\footdir@fntext}[1]{%
16007   \zifrefundefined{\thefootdir@label}{%
16008     }{%
16009     \edef\footdir@name{%
16010       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16011     }%
16012     \@ifundefined{\footdir@name}{%
16013       \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16014     }{}%
16015   }%
16016 }
16017
16018 \newcommand*{\footdir@temp}[3]{%
16019   \ifdefinable{#1}{%

```



```

16020 \let#1#2%
16021 \renewcommand{#2}[1]{%
16022 \footdir@write
16023 \footdir@fntext{#3}%
16024 \stepcounter{footdir@label}%
16025 \footdir@fntext{#3}%
16026 \footdir@toks{##1}%
16027 \footdir@toks\expandafter{%
16028 \the\expandafter\footdir@toks
16029 \expandafter
16030 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16031 }%
16032 \expandafter#1\expandafter{\the\footdir@toks}%
16033 }%
16034 }%
16035 }
16036
16037 \def\right@footnoterule{%
16038 \kern-3\p@
16039 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16040 \kern2.6\p@}
16041 \def\left@footnoterule{\kern-3\p@
16042 \hrule \@width .4\columnwidth \kern 2.6\p@}
16043 \def\textwidth@footnoterule{\kern-3\p@
16044 \hrule \@width \columnwidth \kern 2.6\p@}
16045 \def\leftfootnoterule{%
16046 \bidi@autofootnoterulefalse%
16047 \def\footnoterule{\left@footnoterule}}
16048 \let\LRfootnoterule=\leftfootnoterule
16049 \def\rightfootnoterule{%
16050 \bidi@autofootnoterulefalse%
16051 \def\footnoterule{\right@footnoterule}}
16052 \def\textwidthfootnoterule{%
16053 \bidi@autofootnoterulefalse%
16054 \def\footnoterule{\textwidth@footnoterule}}
16055
16056
16057
16058 \def\auto@footnoterule{%
16059 \footdir@LeftRightElse%
16060 \left@footnoterule%
16061 \right@footnoterule%
16062 \left@footnoterule%
16063 }
16064
16065
16066
16067 \def\autofootnoterule{%
16068 \bidi@autofootnoteruletrue%
16069 \def\footnoterule{\auto@footnoterule}%
16070 }
16071
16072 \newcommand*{\SplitFootnoteRule}{-%
16073 \gdef\split@prev{0}

```



```

16074 \let\pagefootnoterule\footnoterule
16075 \let\mpfootnoterule\footnoterule
16076 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16077 \def\footnoterule{\relax
16078   \ifx \@listdepth\@mplistdepth
16079     \mpfootnoterule
16080   \else
16081     \ifnum\split@prev=\z@
16082       \pagefootnoterule
16083     \else
16084       \splitfootnoterule
16085     \fi
16086   \xdef\split@prev{\the\insertpenalties}%
16087 \fi
16088 }%
16089 }
16090
16091
16092
16093
16094 \def\RTLfootnote{\@ifnextchar [\@xRTLfootnote{\stepcounter\@mpfn
16095   \protected@xdef\@thefnmark{\thempfn}%
16096   \@footnotemark\@RTLfootnotetext}}
16097 \def\@xRTLfootnote[#1]{%
16098   \begingroup
16099     \csname c@\@mpfn\endcsname #1\relax
16100     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16101   \endgroup
16102   \@footnotemark\@RTLfootnotetext}
16103 \def\LTRfootnote{\@ifnextchar [\@xLTRfootnote{\stepcounter\@mpfn
16104   \protected@xdef\@thefnmark{\thempfn}%
16105   \@footnotemark\@LTRfootnotetext}}
16106 \def\@xLTRfootnote[#1]{%
16107   \begingroup
16108     \csname c@\@mpfn\endcsname #1\relax
16109     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16110   \endgroup
16111   \@footnotemark\@LTRfootnotetext}
16112
16113
16114 \def\setfootnoteRL{\@RTL@footnotetrue}
16115 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16116 \def\setfootnoteLR{\unsetfootnoteRL}
16117
16118 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16119 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16120 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16121
16122 \long\def\@footnotetext#1{\insert\footins{%
16123   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16124   \reset@font%
16125   \bidi@footnotetext@font% \reset@font\footnotesize
16126   \interlinepenalty\interfootnotelinepenalty
16127   \splittopskip\footnotesep

```



```

16128 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16129 \hsize\columnwidth \@parboxrestore
16130 \protected@edef\@currentlabel{%
16131   \csname p@footnote\endcsname\@thefnmark
16132 }%
16133 \color@begingroup
16134   \@makefntext{%
16135     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16136 \color@endgroup}}%
16137
16138
16139 \long\def\@RTLfootnotetext#1{\insert\footins{%
16140   \@RTLtrue%
16141   \reset@font%
16142   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16143   \interlinepenalty\interfootnotelinepenalty
16144   \splittopskip\footnotesep
16145   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16146   \hsize\columnwidth \@parboxrestore
16147   \protected@edef\@currentlabel{%
16148     \csname p@footnote\endcsname\@thefnmark
16149   }%
16150   \color@begingroup
16151     \@makefntext{%
16152       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16153   \color@endgroup}}%
16154
16155 \long\def\@LTRfootnotetext#1{\insert\footins{%
16156   \@RTLfalse%
16157   \reset@font%
16158   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16159   \interlinepenalty\interfootnotelinepenalty
16160   \splittopskip\footnotesep
16161   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16162   \hsize\columnwidth \@parboxrestore
16163   \protected@edef\@currentlabel{%
16164     \csname p@footnote\endcsname\@thefnmark
16165   }%
16166   \color@begingroup
16167     \@makefntext{%
16168       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16169   \color@endgroup}}%
16170
16171 \AtBeginDocument{%
16172 \if@RTL@footnote
16173   \newcommand*\bidi@footdir@footnote}{R}
16174 \else
16175   \newcommand*\bidi@footdir@footnote}{L}
16176 \fi%
16177 }
16178
16179 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16180 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16181 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%

```



```

16182
16183 \long\def\@mpRTLfootnotetext#1{%
16184   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\right@footnoterule
16185   \global\setbox\@mpfootins\vbox{%
16186     \unvbox\@mpfootins
16187     \RTLtrue
16188     \reset@font%
16189     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16190     \hsize\columnwidth
16191     \@parboxrestore
16192     \protected@edef\@currentlabel
16193       {\csname p@mpfootnote\endcsname\@thefnmark}%
16194     \color@begingroup
16195       \makefntext{%
16196         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16197     \color@endgroup}}
16198 \long\def\@mpLTRfootnotetext#1{%
16199   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footnoterule
16200   \global\setbox\@mpfootins\vbox{%
16201     \unvbox\@mpfootins
16202     \RTLfalse
16203     \reset@font%
16204     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16205     \hsize\columnwidth
16206     \@parboxrestore
16207     \protected@edef\@currentlabel
16208       {\csname p@mpfootnote\endcsname\@thefnmark}%
16209     \color@begingroup
16210       \makefntext{%
16211         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16212     \color@endgroup}}
16213 \long\def\@mpfootnotetext#1{%
16214   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\@bidi@mpfootnoterule\right@footnoterule
16215   \global\setbox\@mpfootins\vbox{%
16216     \unvbox\@mpfootins
16217     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
16218     \reset@font%
16219     \bidi@footnotetext@font% \reset@font\footnotesize
16220     \hsize\columnwidth
16221     \@parboxrestore
16222     \protected@edef\@currentlabel
16223       {\csname p@mpfootnote\endcsname\@thefnmark}%
16224     \color@begingroup
16225       \makefntext{%
16226         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16227     \color@endgroup}}
16228 \def\@iiiminipage#1#2[#3]#4{%
16229   \leavevmode
16230   \@pboxswfalse
16231   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16232   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16233   \setlength\@tempdima{#4}%
16234   \def\@mpargs{{#1}{#2}[#3]{#4}}%
16235   \setbox\@tempboxa\vbox\bgroup

```



```

16236 \color@begingroup
16237 \hsize\@tempdima
16238 \textwidth\hsize \columnwidth\hsize
16239 \@parboxrestore
16240 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16241 \let\@footnotetext\@mpfootnotetext
16242 \let\@LTRfootnotetext\@mpLTRfootnotetext
16243 \let\@RTLfootnotetext\@mpRTLfootnotetext
16244 \let\@listdepth\@mplistdepth \@mplistdepth\z@
16245 \@minipagerestore
16246 \@setminipage}
16247 \def\endminipage{%
16248 \par
16249 \unskip
16250 \ifvoid\@mpfootins\else
16251 \vskip\skip\@mpfootins
16252 \normalcolor
16253 \bidi@mpfootnoterule
16254 \unvbox\@mpfootins
16255 \fi
16256 \@minipagefalse %% added 24 May 89
16257 \color@endgroup
16258 \egroup
16259 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}
16260 \def\LTRthanks#1{\footnotemark
16261 \protected@xdef\@thanks{\@thanks
16262 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16263 }
16264 \def\LTRfootnotetext{%
16265 \@ifnextchar [\@xLTRfootnotenext
16266 {\protected@xdef\@thefnmark{\thempfn}%
16267 \@LTRfootnotetext}}
16268 \def\@xLTRfootnotenext[#1]{%
16269 \begingroup
16270 \csname c@\@mpfn\endcsname #1\relax
16271 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16272 \endgroup
16273 \@LTRfootnotetext}
16274 \def\RTLthanks#1{\footnotemark
16275 \protected@xdef\@thanks{\@thanks
16276 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16277 }
16278 \let\@thanks\@empty
16279 \def\RTLfootnotetext{%
16280 \@ifnextchar [\@xRTLfootnotenext
16281 {\protected@xdef\@thefnmark{\thempfn}%
16282 \@RTLfootnotetext}}
16283 \def\@xRTLfootnotenext[#1]{%
16284 \begingroup
16285 \csname c@\@mpfn\endcsname #1\relax
16286 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16287 \endgroup
16288 \@RTLfootnotetext}
16289 \leftfootnoterule

```



96 File footnotebackref-xetex-bidi.def

```
16290 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnoteb
16291 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16292 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16293
16294 \renewcommand*\LTRfootnote{%
16295   \refstepcounter{BackrefHyperFootnoteCounter}%
16296   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16297   \label{\BackrefFootnoteTag}%
16298   \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16299
16300 \renewcommand*\RTLfootnote{%
16301   \refstepcounter{BackrefHyperFootnoteCounter}%
16302   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16303   \label{\BackrefFootnoteTag}%
16304   \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16305 \newcommand\Backref@HyperLTRFootnote[1]{%
16306   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16307
16308 \newcommand\Backref@HyperRTLFootnote[1]{%
16309   \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16310
16311 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16312   \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16313
16314 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16315   \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16316
16317 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16318 \iffootnotebackref@numberlinked
16319 \renewcommand{\footfootmark}{%
16320   \ifdim\footmarkwidth < \z@
16321     \llap{\hb@xt@ -\footmarkwidth{%
16322       \hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}}%
16323     \hspace*{-\footmarkwidth}}%
16324   \else
16325     \ifdim\footmarkwidth = \z@
16326       {\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16327     \else
16328       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thef
16329     \fi
16330   \fi}
16331 \renewcommand{\LTRfootfootmark}{%
16332   \ifdim\footmarkwidth < \z@
16333     \llap{\hb@xt@ -\footmarkwidth{%
16334       \hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}}%
16335     \hspace*{-\footmarkwidth}}%
16336   \else
16337     \ifdim\footmarkwidth = \z@
16338       {\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16339     \else
16340       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@th
16341     \fi
```



```

16342 \fi}
16343 \renewcommand{\RTLfootfootmark}{%
16344 \ifdim\footmarkwidth < \z@
16345 \llap{\hb@xt@ -\footmarkwidth{%
16346 \hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16347 \hspace*{-\footmarkwidth}}%
16348 \else
16349 \ifdim\footmarkwidth = \z@
16350 {\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16351 \else
16352 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16353 \fi
16354 \fi}
16355 \fi
16356 }

```

97 File framed-xetex-bidi.def

```

16357 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16358 \renewcommand\TitleBarFrame[3] []{\begingroup
16359 \ifx\delimiter#1\delimiter
16360 \let\TF@conlab\@empty
16361 \else
16362 \def\TF@conlab{% continuation label
16363 \nointerlineskip
16364 \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
16365 \fi
16366 %\let\TF@savecolor\current@color
16367 \textcolor{TFFrameColor}{%
16368 \CustomFBox
16369 {\TF@Title{#2}}{\TF@conlab}}%
16370 \fboxrule\fboxrule\fboxrule\fboxrule
16371 %{\let\current@color\TF@savecolor\set@color #3}%
16372 {\normalcolor #3}%
16373 }\endgroup
16374 }
16375 \renewenvironment{titled-frame}[1]{%
16376 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
16377 \TitleBarFrame{\textbf{#1}}}%
16378 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
16379 \TitleBarFrame[ $\if@RTL$ \blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
16380 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
16381 \TitleBarFrame[ $\if@RTL$ \blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (cont)}}%
16382 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
16383 \TitleBarFrame{\textbf{#1} (cont)}}}%
16384 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16385 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16386 % could interfere with the width measurement.
16387 {\endMakeFramed}
16388 \chardef\FrameRestore=\catcode`\| % for debug
16389 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16390 \def\fb@put@frame#1#2{\relax
16391 \ifdim\pagegoal=\maxdimen \pagegoal\vspace \fi
16392 | \message{===== Entering putframe =====^^J

```



```

16393 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
16394 \ifinner
16395 \fb@putboxa#1%
16396 \fb@afterframe
16397 \else
16398 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16399 \ifdim\dimen@<2\baselineskip % Too little room on page
16400 | \message{Page has only \the\dimen@\space room left; eject. }%
16401 \eject \fb@adjheight \fb@put@frame#1#2%
16402 \else % there's appreciable room left on the page
16403 \fb@sizeofframe#1%
16404 | \message{\string\pagetotal=\the\pagetotal,
16405 \string\pagegoal=\the\pagegoal,
16406 \string\pagestretch=\the\pagestretch,
16407 \string\pageshrink=\the\pageshrink,
16408 | \string\fb@frh=\the\fb@frh. \space}
16409 | \message{~JBox of size \the\ht@\tempboxa\space}%
16410 \begingroup % temporarily set \dimen@ to be...
16411 \advance\dimen@.8\pageshrink % maximum space available on page
16412 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16413 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16414 \expandafter\endgroup
16415 % expand \ifdim, then restore \dimen@ to real room left on page
16416 \ifdim\dimen@>\ht@\tempboxa % whole box does fit
16417 | \message{fits in \the\dimen@. }%
16418 % ToDo: Change this to use vsplit anyway to capture the marks
16419 % MERGE THIS WITH THE else CLAUSE!!!
16420 \fb@putboxa#1%
16421 \fb@afterframe
16422 \else % box must be split
16423 | \message{must be split to fit in \the\dimen@. }%
16424 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16425 \fb@sizeofframe#2%
16426 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16427 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16428 \kern137sp\kern-137sp\penalty-30
16429 \unvbox\@tempboxa}%
16430 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16431 \splittopskip\the\splittopskip}%
16432 \boxmaxdepth\z@ \splittopskip\z@
16433 | \message{~JPadded box of size \the\ht@\tempboxa\space split to \the\dimen@}%
16434 % Split box here
16435 \setbox\tw@\vsplit\@tempboxa to\dimen@
16436 | \toks99\expandafter{\splitfirstmark}%
16437 | \toks98\expandafter{\splitbotmark}%
16438 | \message{Marks are: \the\toks99, \the\toks98. }%
16439 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16440 | \message{Natural height of split box is \the\ht\tw@, leaving
16441 \the\ht@\tempboxa\space remainder. }%
16442 % If the split-to size > (\vsize-\topskip), then set box to full size.
16443 \begingroup
16444 \advance\dimen@\topskip
16445 \expandafter\endgroup
16446 \ifdim\dimen@>\pagegoal

```



```

16447 |         \message{Frame is big -- Use up the full column. }%
16448 |         \dimen@ii\pagegoal
16449 |         \advance\dimen@ii -\topskip
16450 |         \advance\dimen@ii \FrameHeightAdjust\relax
16451 |     \else % suspect this is implemented incorrectly:
16452 |         % If the split-to size > feasible room_on_page, rebox it smaller.
16453 |         \advance\dimen@.8\pageshrink
16454 |         \ifdim\ht\tw@>\dimen@
16455 |             \message{Box too tall; rebox it to \the\dimen@. }%
16456 |             \dimen@ii\dimen@
16457 |         \else % use natural size
16458 |             \dimen@ii\ht\tw@
16459 |         \fi
16460 |     \fi
16461 |     % Re-box contents to desired size \dimen@ii
16462 |     \advance\dimen@ii -\fb@frh
16463 |     \setbox\tw@\vbox to\dimen@ii \bgroup
16464 |     % remove simulated frame and page flexibility:
16465 |     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16466 |     \unvbox\tw@ \unpenalty\unpenalty
16467 |     \ifdim\lastkern=-137sp % whole box went to next page
16468 |         \message{box split at beginning! }%
16469 |         % need work here???
16470 |         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16471 |         \fb@adjheight
16472 |         \fb@put@frame#1#2% INSERTED ???
16473 |     \else % Got material split off at the head
16474 |         \egroup \fb@resto@set
16475 |         \ifvoid\@tempboxa % it all fit after all
16476 |             \message{box split at end! }%
16477 |             \setbox\@tempboxa\box\tw@
16478 |             \fb@putboxa#1%
16479 |             \fb@afterframe
16480 |         \else % it really did split
16481 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16482 |             \ifdim\wd\tw@>\z@
16483 |                 \wd\tw@\wd\@tempboxa
16484 |                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16485 |             \else
16486 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
16487 |                 \box\tw@
16488 |             \fi
16489 |             \hrule \@height\z@ \@width\hsize
16490 |             \eject
16491 |             \fb@adjheight
16492 |             \fb@put@frame\LastFrameCommand\MidFrameCommand
16493 |         \fi\fi\fi\fi\fi
16494 |     }
16495 | \def\fb@putboxa#1{%
16496 |     \ifvoid\@tempboxa
16497 |         \PackageWarning{framed}{Boxa is void -- discard it. }%
16498 |     \else
16499 |         \message{Frame and place boxa. }%
16500 |         %{\showoutput\showbox\@tempboxa}%

```



```

16501 \centerline{#1{\hboxL{\box\@tempboxa}}}%
16502 \fi
16503 }
16504 \catcode\|= \FrameRestore
16505 \def\FrameRestore{%
16506 \let\if@nobreak\iffalse
16507 \let\if@noskipsec\iffalse
16508 \let\-\@dischph
16509 \let'\@acci\let'\@accii\let\=\@acciii
16510 % \message{FrameRestore:
16511 % \totalleftmargin=\the \totalleftmargin,
16512 % \rightmargin=\the\rightmargin,
16513 % \listdepth=\the\listdepth. }%
16514 % Test if we are in a list (or list-like paragraph)
16515 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
16516 \ifdim\rightmargin>\z@ 1\fi
16517 \ifnum\listdepth>\z@ 1\fi 0>\z@
16518 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
16519 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hspace=\the\hspace,
16520 % \labelwidth=\the\labelwidth. }%
16521 \@setminipage % snug fit around the item
16522 % Now try to propagate changes of width from \hspace to list parameters.
16523 % This is deficient, but a more advanced way to indicate modification to text
16524 % dimensions is not (yet) provided; in particular, no separate left/right
16525 % adjustment.
16526 \advance\linewidth-\columnwidth \advance\linewidth\hspace
16527 \parshape\@ne \totalleftmargin \linewidth
16528 \else % Not in list
16529 \linewidth=\hspace
16530 %\message{No list, set \string\linewidth=\the\hspace. }%
16531 \fi
16532 \sloppy
16533 }

```

98 File `ftnright-xetex-bidi.def`

```

16534 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16535
16536 \def\prepare@bidi@copyins{%
16537 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16538 \global\skip\@bidi@copyins@\z@
16539 \global\count\@bidi@copyins@\z@
16540 \global\dimen\@bidi@copyins@\texttheight}
16541
16542 \newskip\bidi@rcol@copyinsskip
16543
16544 \def\LTR@outputdblcol{%
16545 \if@firstcolumn
16546 \global\@firstcolumnfalse
16547 \global\setbox\@leftcolumn\copy\@outputbox
16548 \global\count\footins\@m
16549 \global\skip\footins\rcol@footinsskip
16550 \global\count\@bidi@copyins@\@m
16551 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

16552 \splitmaxdepth\maxdimen
16553 \vbadness\maxdimen
16554 \setbox\@outputbox\ vbox{\unvbox\@outputbox\unskip}%
16555 \setbox\@outputbox\ vsplit\@outputbox to\maxdimen
16556 \toks@\expandafter{\topmark}%
16557 \xdef\@firstcoltopmark{\the\toks@}%
16558 \toks@\expandafter{\splitfirstmark}%
16559 \xdef\@firstcolfirstmark{\the\toks@}%
16560 \ifx\@firstcolfirstmark\@empty
16561 \global\let\@setmarks\relax
16562 \else
16563 \gdef\@setmarks{%
16564 \let\firstmark\@firstcolfirstmark
16565 \let\topmark\@firstcoltopmark}%
16566 \fi
16567 \else
16568 \preparefootins
16569 \prepare@bidi@copyins
16570 \global\@firstcolumntrue
16571 \setbox\@outputbox\ vbox{%
16572 \hb@xt@\textwidth{%
16573 \hb@xt@\columnwidth{%
16574 \bidi@firstcolumn@status@write%
16575 \box\@leftcolumn \hss}%
16576 \hfil
16577 {\normalcolor\vrule \@width\columnseprule}%
16578 \hfil
16579 \hb@xt@\columnwidth{%
16580 \bidi@lastcolumn@status@write%
16581 \box\@outputbox \hss}}}%
16582 \@combinedblfloats
16583 \@setmarks
16584 \@outputpage
16585 \begin@group
16586 \@dblfloatplacement
16587 \@startdblcolumn
16588 \@whilesw\if@colmade \fi{\@outputpage
16589 \@startdblcolumn}%
16590 \end@group
16591 \fi}%
16592
16593 \def\RTL@outputdblcol{%
16594 \if@firstcolumn
16595 \global\@firstcolumnfalse
16596 \global\setbox\@leftcolumn\copy\@outputbox
16597 \global\count\footins\@m
16598 \global\skip\footins\rcol\footinsskip
16599 \global\count\@bidi@copyins\@m
16600 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16601 \splitmaxdepth\maxdimen
16602 \vbadness\maxdimen
16603 \setbox\@outputbox\ vbox{\unvbox\@outputbox\unskip}%
16604 \setbox\@outputbox\ vsplit\@outputbox to\maxdimen
16605 \toks@\expandafter{\topmark}%

```



```

16606 \xdef\@firstcoltopmark{\the\toks@}%
16607 \toks@\expandafter{\splitfirstmark}%
16608 \xdef\@firstcolfirstmark{\the\toks@}%
16609 \ifx\@firstcolfirstmark\@empty
16610 \global\let\@setmarks\relax
16611 \else
16612 \gdef\@setmarks{%
16613 \let\firstmark\@firstcolfirstmark
16614 \let\topmark\@firstcoltopmark}%
16615 \fi
16616 \else
16617 \preparefootins
16618 \prepare@bidi@copyins
16619 \global\@firstcolumntrue
16620 \setbox\@outputbox\vbox{%
16621 \hb@xt@\textwidth{%
16622 \hskip \columnwidth
16623 \hfil
16624 {\normalcolor\vrule \@width\columnseprule}%
16625 \hfil
16626 \hb@xt@\columnwidth{%
16627 \bidi@firstcolumn@status@write%
16628 \box\@leftcolumn \hss}%
16629 \hskip -\textwidth
16630 \hb@xt@\columnwidth{%
16631 \bidi@lastcolumn@status@write%
16632 \box\@outputbox \hss}%
16633 \hskip \columnsep
16634 \hskip \columnwidth }}%
16635 \@combinedblfloats
16636 \@setmarks
16637 \@outputpage
16638 \begingroup
16639 \@dblfloatplacement
16640 \@startdblcolumn
16641 \@whilesw\if@colmade \fi{\@outputpage
16642 \@startdblcolumn}%
16643 \endgroup
16644 \fi}%
16645
16646 \def\@startcolumn{%
16647 \ifx\@deferlist\@empty
16648 \global\@fcolmadefalse
16649 \global\@colroom\@colht
16650 \else
16651 \ifvoid\footins\else
16652 \ftn@amount\ht\footins
16653 \advance\ftn@amount\dp\footins
16654 \advance\ftn@amount\skip\footins
16655 \fi
16656 \ifvoid\@bidi@copyins\else
16657 \bidi@copyins@amount\ht\@bidi@copyins@
16658 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16659 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

16660 \fi
16661 \global\advance\@colht-\ftn@amount
16662 \global\advance\@colht-\bidi@copyins@amount
16663 \global\@colroom\@colht
16664 \@xstartcol
16665 \global\advance\@colht\ftn@amount
16666 \global\advance\@colroom\ftn@amount
16667 \global\advance\@colht\bidi@copyins@amount
16668 \global\advance\@colroom\bidi@copyins@amount
16669 \fi
16670 \iffcolmade
16671 \setbox\@cclv\box\@outputbox
16672 \@makecol
16673 \else
16674 \ifvoid\footins\else
16675 \insert\footins{\unvbox\footins}\fi
16676 \ifvoid\@bidi@copyins\else
16677 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
16678 \fi}
16679
16680 \newdimen\bidi@copyins@amount
16681
16682 \def\@makecol{\if@firstcolumn
16683 \setbox\@outputbox\box\@cclv
16684 \if@twocolumn \else
16685 \ifvoid\footins \else
16686 \@latexerr{ftnright package
16687 used in one-column mode}}%
16688 {The ftnright package was designed to
16689 work with LaTeX's standard^^Jtwocolumn
16690 option. It does *not* work with the
16691 multicol package.^^JSo please specify
16692 `twocolumn' in the
16693 \noexpand\documentclass command.}%
16694 \shipout\box\footins \fi
16695 \ifvoid\@bidi@copyins@ \else
16696 \@latexerr{ftnright package
16697 used in one-column mode}}%
16698 {The ftnright package was designed to
16699 work with LaTeX's standard^^Jtwocolumn
16700 option. It does *not* work with the
16701 multicol package.^^JSo please specify
16702 `twocolumn' in the
16703 \noexpand\documentclass command.}%
16704 \shipout\box\@bidi@copyins@ \fi\fi
16705 \ifnum\insertpenalties>\z@
16706 \@latexerr{ftnright package
16707 scrambled footnotes}}%
16708 {There is too much footnote material in
16709 the first column and ftnright^^Jis
16710 unable to cope with this.^^JYou need
16711 to reduce the amount to get a properly
16712 formatted page.}%
16713 \fi

```




```

16714 \else
16715 \ifvoid\footins
16716   \ifvoid\@bidi@copyins@
16717     \setbox\@outputbox\box\@cclv
16718   \else
16719     \setbox\@outputbox\vbox
16720     {\ifvoid\@cclv \else
16721       \unvbox\@cclv
16722       \vskip \skip\@bidi@copyins@
16723     \fi
16724       \color@begingroup
16725       \normalcolor
16726       \unvbox \@bidi@copyins@
16727       \color@endgroup}%
16728   \fi
16729 \else
16730   \setbox\@outputbox\vbox
16731   {\ifvoid\@cclv \else
16732     \unvbox\@cclv
16733     \vskip\skip\footins\fi
16734     \color@begingroup
16735     \normalcolor
16736     \footnoterule\unvbox\footins
16737     \color@endgroup
16738     \ifvoid\@bidi@copyins@
16739     \else
16740       \vskip \skip\@bidi@copyins@
16741       \color@begingroup
16742       \normalcolor
16743       \unvbox \@bidi@copyins@
16744       \color@endgroup
16745     \fi
16746   }%
16747 \fi
16748 \fi
16749 \xdef\@freelist{\@freelist\@midlist}%
16750 \global \let \@midlist \@empty
16751 \@combinefloats
16752 \ifvbox\@kludgeins
16753   \@makespecialcolbox
16754 \else
16755   \setbox\@outputbox\vbox to\@colht
16756   {\boxmaxdepth\maxdepth
16757     \@texttop
16758     \@tempdima\dp\@outputbox
16759     \unvbox\@outputbox
16760     \vskip-\@tempdima
16761     \@textbottom}%
16762 \fi
16763 \global\maxdepth\@maxdepth}
16764
16765 \let\leftfootnoterule\@empty
16766 \let\rightfootnoterule\@empty
16767 \let\textwidthfootnoterule\@empty

```



```

16768 \let\autofooterule\@empty
16769 \let\footnoterule\@empty
16770 \long\def\@makefntext#1{\parindent 1em
16771   \noindent\hbox to 2em{}%
16772   \llap{\@thefnmark\hbox{.}\,\,}#1}
16773
16774 \setlength{\skip\@bidi@copyins@}
16775   {10pt plus 5pt minus 3pt}
16776 \AtBeginDocument{\prepare@bidi@copyins}

```

99 File graphicx-xetex-bidi.def

```

16777 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16778 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16779   \Grot@setangle{#1}%
16780   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16781     \Grot@x\z@
16782     \Grot@y\z@
16783     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16784 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16785   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if
16786     \Grot@x\width \divide\Grot@x\tw@
16787     \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16788     \setkeys{Grot}{#1}%
16789     \setbox\z@\box\@tempboxa
16790     \Grot@setangle{#2}%
16791     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16792   \@end@tempboxa}
16793 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16794   \leavevmode
16795   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16796   \setbox\z@\hbox{#3}%
16797   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16798   \ifdim#2\p@<\z@
16799     \ht\tw@-#2\dp\z@
16800     \dp\tw@-#2\ht\z@
16801   \else
16802     \ht\tw@#2\ht\z@
16803     \dp\tw@#2\dp\z@
16804   \fi
16805   \ifdim#1\p@<\z@
16806     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16807   \else
16808     \wd\tw@#1\wd\z@
16809     \box\tw@
16810   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16811 \def\Gin@iii[#1,#2][#3,#4]#5{%
16812   \begingroup
16813   \ifmmode\else\if@RTL\beginL\fi\fi
16814   \Gin@bboxtrue
16815   \Gin@defaultbp\Gin@llx{#1}%
16816   \Gin@defaultbp\Gin@lly{#2}%
16817   \Gin@defaultbp\Gin@urx{#3}%
16818   \Gin@defaultbp\Gin@ury{#4}%

```



```

16819 \Ginclud@graphics{#5}%
16820 \ifmmode\else\if@RTL\endL\fi\fi
16821 \endgroup}
16822 \def\Gin@ii[#1]#2{%
16823   \def\@tempa{[]}\def\@tempb{#2}%
16824   \ifx\@tempa\@tempb
16825     \def\@tempa{\Gin@iii[#1]{}%
16826     \expandafter\@tempa
16827   \else
16828     \begingroup
16829     \ifmmode\else\if@RTL\beginL\fi\fi
16830     \@tempswafalse
16831     \toks@{\Ginclud@graphics{#2}}%
16832     \setkeys{Gin}{#1}%
16833     \Gin@esetsize
16834     \the\toks@
16835     \ifmmode\else\if@RTL\endL\fi\fi
16836   \endgroup
16837   \fi}
16838 \def\reflectbox{\bidiGscale@box-1[1]}
16839 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16840 \leavevmode
16841 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16842 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16843 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16844 \ifdim#2\p@<\z@
16845   \ht\tw@-#2\dp\z@
16846   \dp\tw@-#2\ht\z@
16847 \else
16848   \ht\tw@#2\ht\z@
16849   \dp\tw@#2\dp\z@
16850 \fi
16851 \ifdim#1\p@<\z@
16852   \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16853 \else
16854   \wd\tw@#1\wd\z@
16855   \box\tw@
16856 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16857 \def\scalebox#1{%
16858 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}]
16859 \def\resizebox{%
16860 \leavevmode
16861 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16862 \def\bidiGscale@@box#1#2#3{%
16863 \let\@tempa\Gin@exclamation
16864 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16865 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16866 \ifx\@tempb\@tempa
16867   \ifx\@tempc\@tempa
16868     \toks@{\mbox}%
16869   \else
16870     \toks@{\bidiGscale@@box@dd{#3}#1}%
16871   \fi
16872 \else

```



```

16873 \ifx\@tempc\@tempa
16874 \toks@\{\bidiGscale@box@dd#2}\width}%
16875 \else
16876 \toks@\{\bidiGscale@box@ddd#2}\width{#3}#1}%
16877 \fi
16878 \fi
16879 \the\toks@}
16880 \long\def\bidiGscale@box@dd#1#2#3{%
16881 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16882 \setlength\@tempdima{#1}%
16883 \setlength\@tempdimb{#2}%
16884 \Gscale@div\@tempa\@tempdima\@tempdimb
16885 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16886 \@end@tempboxa}
16887 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
16888 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16889 \setlength\@tempdima{#1}%
16890 \setlength\@tempdimb{#2}%
16891 \Gscale@div\@tempa\@tempdima\@tempdimb
16892 \setlength\@tempdima{#3}%
16893 \setlength\@tempdimb{#4}%
16894 \Gscale@div\@tempb\@tempdima\@tempdimb
16895 \ifGin@iso
16896 \ifdim\@tempa\p@>\@tempb\p@
16897 \let\@tempa\@tempb
16898 \else
16899 \let\@tempb\@tempa
16900 \fi
16901 \fi
16902 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16903 \@end@tempboxa}

```

100 File geometry-xetex-bidi.def

```

16904 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16905 \renewcommand*\Gm@vrules@mpi}{%
16906 \if@RTLmain%
16907 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16908 \llap{\Gm@vrule}\ignorespaces
16909 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16910 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16911 \else%
16912 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16913 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16914 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16915 \renewcommand*\Gm@vrules@mpii}{%
16916 \if@RTLmain%
16917 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16918 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16919 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16920 \else%
16921 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16922 \llap{\Gm@vrule}\ignorespaces
16923 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

16924 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16925 \bidi@patchcmd{\Gm@pageframes}{%
16926     \ifodd\count\z@
16927         \let\@themargin\oddsidemargin
16928     \else
16929         \let\@themargin\evensidemargin
16930     \fi
16931 }{%
16932     \ifodd\count\z@
16933         \if@RTLmain
16934             \let\@themargin\evensidemargin
16935         \else
16936             \let\@themargin\oddsidemargin
16937         \fi
16938     \else
16939         \if@RTLmain
16940             \let\@themargin\oddsidemargin
16941         \else
16942             \let\@themargin\evensidemargin
16943         \fi
16944     \fi
16945 }{}{}

```

101 File hvfloat-xetex-bidi.def

```

16946 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16947 \def\do@hvFloat[#1]#2#3{%
16948 \def\hv@shortCap{#1}
16949 \def\hv@longCap{#2}
16950 \def\hv@label{#3}
16951 %\newcommand*{\hvFloat}[5] [] {%
16952 % #1: keyvalues
16953 % #2: type figure | table | ...
16954 % #3: float contents
16955 % #4: short caption
16956 % #5: caption
16957 % #6: label
16958 % \setDefault%
16959 % \def@tempa{#1}%
16960 % \ifx@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16961 \def@tempa{90}%
16962 \ifx\hvSet@rotAngle@tempa \setlength{\hvMaxCapWidth}{\textheight}
16963 \else \setlength{\hvMaxCapWidth}{\linewidth}
16964 \fi
16965 %
16966 % First we save the object in \hvObjectBox
16967 %
16968 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
16969 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
16970 \else
16971 \savebox{\hvObjectBox}{%
16972 \rotatebox{\hvSet@objectAngle}{%
16973 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
16974 \fi

```



```

16975 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
16976 %
16977 % Now we save the caption with its defined \hvCapWidth
16978 %
16979 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
16980 \else
16981   \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
16982   \else
16983     \setlength{\hvCapWidth}{\hvObjectWidth}
16984     \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16985     \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16986     \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
16987 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
16988   \else
16989 \setlength{\hvCapWidth}{\hvMaxCapWidth}
16990   \fi
16991 \fi
16992 \fi
16993 %
16994 % now we have the object and the caption with the right
16995 % rotated angles saved in boxes
16996 %
16997 \def\fps@figure{\hvSet@floatPos}
16998 \ifhv@nonFloat\begin{group}% Start the nonfloat part
16999 \else \begin{\hv@floatType}% Start the floating environment
17000 \fi%
17001 \saveCaptionSkip% we put this space ourselve
17002 \ifx\hvSet@capAngle\hv@Width % need rotation?
17003   \sbox{\hvCaptionBox}{%
17004     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17005       \ifhv@nonFloat%
17006         \ifhv@onlyText#2%
17007         \else%
17008         \ifx\hv@floatType\hv@figure
17009           \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17010         \else
17011           \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17012         \fi
17013       \fi
17014     \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17015     \fi%
17016     \label{#3}%
17017     \end{minipage}%
17018   }%
17019 \else%
17020   \sbox{\hvCaptionBox}{%
17021     \rotatebox{\hvSet@capAngle}{%
17022       \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17023 \ifhv@nonFloat%
17024       \ifhv@onlyText#2%
17025       \else%
17026       \ifx\hv@floatType\hv@figure
17027         \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17028       \else

```



```

17029     \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17030     \fi
17031     \fi
17032 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17033     \fi%
17034     \label{#3}%
17035     \end{minipage}%
17036     }%
17037     }%
17038     \fi%
17039 %%
17040 \restoreCaptionSkip% save old values
17041 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17042 \else%
17043     \ifx\hvSet@objectPos\hv@Center
17044         \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17045     \fi%
17046 \fi%
17047 %
17048 % to rotate object and caption together, we save all in another box
17049 % the caption comes first, if its on the left or the top
17050 %
17051 \savebox{\@tempboxa}{%
17052 \ifx\hvSet@capPos\hv@Left % caption on left side
17053 \if@RTL%
17054 \ifx\hvSet@capVPos\hv@Center%
17055     \ifhv@fbox
17056         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17057     \else
17058         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17059     \fi%
17060     \hspace{\hvSet@floatCapSep pt}%
17061     \ifhv@fbox
17062         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17063     \else
17064         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17065     \fi%
17066 \else%
17067     \ifx\hvSet@capVPos\hv@Top
17068         \ifhv@fbox
17069             \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17070         \else
17071             \raisebox{-\height}{\usebox{\hvObjectBox}}%
17072         \fi%
17073         \hspace{\hvSet@floatCapSep pt}%
17074         \ifhv@fbox
17075             \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17076         \else
17077             \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17078         \fi
17079     \else
17080         \ifhv@fbox
17081             \fbox{\usebox{\hvObjectBox}}%
17082         \else

```



```

17083         \usebox{\hvObjectBox}%
17084     \fi
17085     \hspace{\hvSet@floatCapSep pt}%
17086     \ifhv@fbox
17087         \fbox{\usebox{\hvCaptionBox}}%
17088     \else
17089         \usebox{\hvCaptionBox}%
17090     \fi%
17091 \fi%
17092 \fi%
17093 \else% not RTL
17094     \ifx\hvSet@capVPos\hv@Center%
17095         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17096     \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17097     \fi%
17098     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17099     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17100 \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17101 \fi%
17102 \else%
17103     \ifx\hvSet@capVPos\hv@Top % caption at top
17104         \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17105     \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17106     \fi
17107     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17108     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17109 \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
17110 \fi%
17111 \else% caption on bottom
17112     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17113     \else\usebox{\hvCaptionBox}
17114     \fi%
17115     \hspace{\hvSet@floatCapSep pt}%
17116     \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17117 \else         \usebox{\hvObjectBox}
17118 \fi%
17119 \fi%
17120 \fi% end of RTL
17121 \fi%
17122 \else
17123     \ifx\hvSet@capPos\hv@Top
17124         \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17125             \begin{minipage}{\wd\hvCaptionBox}
17126         \else
17127             \begin{minipage}{\wd\hvObjectBox}
17128         \fi
17129         \centering
17130         \ifhv@fbox
17131             \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17132             \fbox{\usebox{\hvObjectBox}}
17133         \else
17134             \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17135             \usebox{\hvObjectBox}
17136         \fi%

```




```

17137 \end{minipage}
17138 \else
17139 \ifx\hvSet@capPos\hv@Bottom
17140 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17141 \begin{minipage}{\wd\hvCaptionBox}
17142 \else
17143 \begin{minipage}{\wd\hvObjectBox}
17144 \fi
17145 \centering
17146 \ifhv@fbox
17147 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17148 \fbox{\usebox{\hvCaptionBox}}
17149 \else
17150 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17151 \usebox{\hvCaptionBox}
17152 \fi%
17153 \end{minipage}
17154 \else% the last option: put the caption on the right
17155 \if@RTL%
17156 \ifx\hvSet@capVPos\hv@Center%
17157 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17158 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17159 \fi%
17160 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17161 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17162 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17163 \fi%
17164 \else%
17165 \ifx\hvSet@capVPos\hv@Top % caption at top
17166 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17167 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17168 \fi
17169 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17170 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17171 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17172 \fi%
17173 \else% caption on bottom
17174 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17175 \else\usebox{\hvCaptionBox}
17176 \fi%
17177 \hspace{\hvSet@floatCapSep pt}%
17178 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17179 \else \usebox{\hvObjectBox}
17180 \fi%
17181 \fi%
17182 \fi%
17183 \else% not RTL
17184 \ifx\hvSet@capVPos\hv@Center%
17185 \ifhv@fbox
17186 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17187 \else
17188 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17189 \fi%
17190 \hspace{\hvSet@floatCapSep pt}%

```



```

17191     \ifhv@fbox
17192     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17193     \else
17194     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17195     \fi%
17196 \else%
17197     \ifx\hvSet@capVPos\hv@Top
17198     \ifhv@fbox
17199     \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17200     \else
17201     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17202     \fi%
17203     \hspace{\hvSet@floatCapSep pt}%
17204     \ifhv@fbox
17205     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17206     \else
17207     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17208     \fi
17209     \else
17210     \ifhv@fbox
17211     \fbox{\usebox{\hvObjectBox}}%
17212     \else
17213     \usebox{\hvObjectBox}%
17214     \fi
17215     \hspace{\hvSet@floatCapSep pt}%
17216     \ifhv@fbox
17217     \fbox{\usebox{\hvCaptionBox}}%
17218     \else
17219     \usebox{\hvCaptionBox}%
17220     \fi%
17221     \fi%
17222     \fi
17223 \fi% end of RTL
17224     \fi
17225     \fi
17226     \fi
17227 }% End savebox Object and caption
17228 %
17229 % now we rotate the object and caption, if needed
17230 %
17231 \ifx\hvSet@rotAngle\hv@Zero
17232 \usebox{\@tempboxa}
17233 \else
17234 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17235 \fi
17236 \ifhv@nonFloat
17237 \ifx\hvSet@objectPos\hv@Center
17238 \ifhv@nonFloat
17239 \hspace{\fill}
17240 \fi
17241 \fi
17242 \endgroup% End the nonfloat part
17243 \else
17244 \end{\hv@floatType}% End the floating environment

```



```

17245 \fi
17246 }

```

102 File hyperref-xetex-bidi.def

```

17247 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.3 bidi adaptations for hyperref package]
17248 \AtBeginDocument{%
17249 \def\contentsline#1#2#3#4{%
17250 \ifx\#4\%
17251 \csname l@#1\endcsname{#2}{#3}%
17252 \else
17253 \ifcase\Hy@linktoc % none
17254 \csname l@#1\endcsname{#2}{#3}%
17255 \or % section
17256 \csname l@#1\endcsname{%
17257 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17258 }{#3}%
17259 \or % page
17260 \csname l@#1\endcsname{{#2}}{%
17261 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17262 }%
17263 \else % all
17264 \csname l@#1\endcsname{%
17265 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17266 }{%
17267 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17268 }%
17269 \fi
17270 \fi
17271 }
17272 \ifHy@hyperfootnotes
17273 \let\H@footnotetext\@footnotetext
17274 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17275 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17276 \def\xfootnotenext[#1]{%
17277 \begingroup
17278 \csname c@mpfn\endcsname #1\relax
17279 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17280 \endgroup
17281 \ifx\@footnotetext\@mpfootnotetext
17282 \expandafter\H@mpfootnotetext
17283 \else
17284 \expandafter\H@footnotetext
17285 \fi
17286 }%
17287 \def\xRTLfootnotenext[#1]{%
17288 \begingroup
17289 \csname c@mpfn\endcsname #1\relax
17290 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17291 \endgroup
17292 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17293 \expandafter\HRTL@mpRTLfootnotetext
17294 \else
17295 \expandafter\HRTL@RTLfootnotetext

```



```

17296 \fi
17297 }%
17298 \def\xLTRfootnotenext[#1]{%
17299 \begingroup
17300 \csname c@\mpfn\endcsname #1\relax
17301 \unrestored@protected@xdef\thefnmark{\thempfn}%
17302 \endgroup
17303 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17304 \expandafter\HLTR@\mpLTRfootnotetext
17305 \else
17306 \expandafter\HLTR@\@LTRfootnotetext
17307 \fi
17308 }%
17309 \def\@xfootnotemark[#1]{%
17310 \begingroup
17311 \c@footnote #1\relax
17312 \unrestored@protected@xdef\thefnmark{\thefootnote}%
17313 \endgroup
17314 \H@\@footnotemark
17315 }%
17316 \let\H@\mpfootnotetext\@mpfootnotetext
17317 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
17318 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
17319 \long\def\@mpfootnotetext#1{%
17320 \H@\mpfootnotetext{%
17321 \ifHy@nesting
17322 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17323 \else
17324 \Hy@raisedlink{%
17325 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17326 }#1%
17327 \fi
17328 }%
17329 }%
17330 \long\def\@mpRTLfootnotetext#1{%
17331 \HRTL@\mpRTLfootnotetext{%
17332 \ifHy@nesting
17333 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17334 \else
17335 \Hy@raisedlink{%
17336 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17337 }#1%
17338 \fi
17339 }%
17340 }%
17341 \long\def\@mpLTRfootnotetext#1{%
17342 \HLTR@\mpLTRfootnotetext{%
17343 \ifHy@nesting
17344 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17345 \else
17346 \Hy@raisedlink{%
17347 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17348 }#1%
17349 \fi

```



```

17350 }%
17351 }%
17352 \long\def\@footnotetext#1{%
17353 \H@@footnotetext{%
17354 \ifHy@nesting
17355 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17356 \else
17357 \Hy@raisedlink{%
17358 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17359 }%
17360 \let\@currentHlabel\Hy@footnote@currentHlabel
17361 \let\@currentHref\Hy@footnote@currentHref
17362 \let\@currentlabelname\@empty
17363 #1%
17364 \fi
17365 }%
17366 }%
17367 \long\def\@RTLfootnotetext#1{%
17368 \HRTL@RTLfootnotetext{%
17369 \ifHy@nesting
17370 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17371 \else
17372 \Hy@raisedlink{%
17373 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17374 }%
17375 \let\@currentHlabel\Hy@footnote@currentHlabel
17376 \let\@currentHref\Hy@footnote@currentHref
17377 \let\@currentlabelname\@empty
17378 #1%
17379 \fi
17380 }%
17381 }%
17382 \long\def\@LTRfootnotetext#1{%
17383 \HLTR@LTRfootnotetext{%
17384 \ifHy@nesting
17385 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17386 \else
17387 \Hy@raisedlink{%
17388 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17389 }%
17390 \let\@currentHlabel\Hy@footnote@currentHlabel
17391 \let\@currentHref\Hy@footnote@currentHref
17392 \let\@currentlabelname\@empty
17393 #1%
17394 \fi
17395 }%
17396 }%
17397 \ApplyPatchCodeToPackage{tabularx}{%
17398 \let\HyOrg@TX@endtabularx\TX@endtabularx
17399 \def\Hy@tabularx@hook{%
17400 \let\@footnotetext\H@@footnotetext
17401 \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17402 \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17403 \let\@footnotemark\H@@footnotemark

```



```

17404     \let\@mpfootnotetext\H@mpfootnotetext
17405     \let\@mpLTRfootnotetext\HLTR@mpLTRfootnotetext
17406     \let\@mpRTLfootnotetext\HRTL@mpRTLfootnotetext
17407 }%
17408 \begingroup
17409   \toks@\expandafter{\TX@endtabularx}%
17410   \xdef\Hy@gtemp{%
17411     \noexpand\Hy@tabularx@hook
17412     \the\toks@
17413   }%
17414 \endgroup
17415 \let\TX@endtabularx\Hy@gtemp
17416 }%
17417 \ApplyPatchCodeToPackage{longtable}{%
17418 \CheckCommand*{\LT@p@LTRftntext}[1]{%
17419   \edef\@tempa{%
17420     \the\LT@p@ftn
17421     \noexpand\LTRfootnotetext[\the\c@footnote]}%
17422   }%
17423   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17424 }%
17425 \long\def\LT@p@LTRftntext#1{%
17426   \edef\@tempa{%
17427     \the\LT@p@ftn
17428     \begingroup
17429       \noexpand\c@footnote=\the\c@footnote\relax
17430       \noexpand\protected@xdef\noexpand\@thefnmark{%
17431         \noexpand\thempfn
17432       }%
17433       \noexpand\Hy@LT@LTRfootnotetext{%
17434         \Hy@footnote@currentHref
17435       }%
17436     }%
17437     \global\LT@p@ftn\expandafter{%
17438       \@tempa{#1}%
17439     \endgroup
17440   }%
17441 }%
17442 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17443   \HLTR@LTRfootnotetext{%
17444     \ifHy@nesting
17445       \hyper@@anchor{#1}{#2}%
17446     \else
17447       \Hy@raisedlink{%
17448         \hyper@@anchor{#1}{\relax}%
17449       }%
17450       \def\@currentHref{#1}%
17451       \let\@currentlabelname\@empty
17452       #2%
17453     \fi
17454   }%
17455 }%
17456 \CheckCommand*{\LT@p@RTLftntext}[1]{%
17457   \edef\@tempa{%

```



```

17458     \the\LT@p@ftn
17459     \noexpand\RTLfootnotetext[\the\c@footnote]%
17460   }%
17461   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17462 }%
17463 \long\def\LT@p@RTLftntext#1{%
17464   \edef\@tempa{%
17465     \the\LT@p@ftn
17466     \begingroup
17467     \noexpand\c@footnote=\the\c@footnote\relax
17468     \noexpand\protected@xdef\noexpand\@thefnmark{%
17469       \noexpand\thempfn
17470     }%
17471     \noexpand\Hy@LT@RTLfootnotetext{%
17472       \Hy@footnote@currentHref
17473     }%
17474   }%
17475   \global\LT@p@ftn\expandafter{%
17476     \@tempa{#1}%
17477   \endgroup
17478 }%
17479 }%
17480 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17481   \HRTL@RTLfootnotetext{%
17482     \ifHy@nesting
17483       \hyper@@anchor{#1}{#2}%
17484     \else
17485       \Hy@raisedlink{%
17486         \hyper@@anchor{#1}{\relax}%
17487       }%
17488       \def\@currentHref{#1}%
17489       \let\@currentlabelname\@empty
17490       #2%
17491     \fi
17492   }%
17493 }%
17494 }%
17495 \ApplyPatchCodeToPackage{bidipoem}{%
17496 \long\def\bidipoem@p@ftntext#1{%
17497   \edef\@tempx{%
17498     \the\bidipoem@p@ftn
17499     \begingroup
17500     \noexpand\c@mpfn\endcsname=\the\c@mpfn\endcsname\relax
17501     \noexpand\protected@xdef\noexpand\@thefnmark{%
17502       \noexpand\thempfn
17503     }%
17504     \noexpand\Hy@bidipoem@footnotetext{%
17505       \Hy@footnote@currentHref
17506     }%
17507   }%
17508   \global\bidipoem@p@ftn\expandafter{%
17509     \@tempx{#1}%
17510   \endgroup
17511 }%

```



```

17512 }%
17513 \long\def\Hy@bidipoem@footnotetext#1#2{%
17514   \H@footnotetext{%
17515     \ifHy@nesting
17516       \hyper@@anchor{#1}{#2}%
17517     \else
17518       \Hy@raisedlink{%
17519         \hyper@@anchor{#1}{\relax}%
17520       }%
17521       \def\@currentHref{#1}%
17522       \let\@currentlabelname\@empty
17523       #2%
17524     \fi
17525   }%
17526 }%
17527 \long\def\bidipoem@p@LTRftntext#1{%
17528 \edef\@tempxi{%
17529   \the\bidipoem@p@ftn
17530 \begingroup
17531   \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17532   \noexpand\protected@xdef\noexpand\@thefnmark{%
17533     \noexpand\thempfn
17534   }%
17535   \noexpand\Hy@bidipoem@LTRfootnotetext{%
17536     \Hy@footnote@currentHref
17537   }%
17538 }%
17539 \global\bidipoem@p@ftn\expandafter{%
17540   \@tempxi{#1}%
17541 \endgroup
17542 }%
17543 }%
17544 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17545   \HLTR@LTRfootnotetext{%
17546     \ifHy@nesting
17547       \hyper@@anchor{#1}{#2}%
17548     \else
17549       \Hy@raisedlink{%
17550         \hyper@@anchor{#1}{\relax}%
17551       }%
17552       \def\@currentHref{#1}%
17553       \let\@currentlabelname\@empty
17554       #2%
17555     \fi
17556   }%
17557 }%
17558 \long\def\bidipoem@p@RTLftntext#1{%
17559 \edef\@tempxii{%
17560   \the\bidipoem@p@ftn
17561 \begingroup
17562   \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17563   \noexpand\protected@xdef\noexpand\@thefnmark{%
17564     \noexpand\thempfn
17565   }%

```




```

17566         \noexpand\Hy@bidipoem@RTLfootnotetext{%
17567             \Hy@footnote@currentHref
17568         }%
17569     }%
17570     \global\bidipoem@p@ftn\expandafter{%
17571         \@tempxi{#1}%
17572     \endgroup
17573     }%
17574 }%
17575 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17576     \HRTL@RTLfootnotetext{%
17577         \ifHy@nesting
17578             \hyper@@anchor{#1}{#2}%
17579         \else
17580             \Hy@raisedlink{%
17581                 \hyper@@anchor{#1}{\relax}%
17582             }%
17583             \def\@currentHref{#1}%
17584             \let\@currentlabelname\@empty
17585             #2%
17586         \fi
17587     }%
17588 }%
17589 }%
17590 \let\HyOrg@maketitle\maketitle
17591 \def\maketitle{%
17592     \let\Hy@saved@footnotemark\@footnotemark
17593     \let\Hy@saved@footnotetext\@footnotetext
17594     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17595     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17596     \let\@footnotemark\H@@footnotemark
17597     \let\@footnotetext\H@@footnotetext
17598     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17599     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17600     \@ifnextchar [\Hy@maketitle@optarg{ } ]
17601         \HyOrg@maketitle
17602         \Hy@maketitle@end
17603     }%
17604 }%
17605 \def\Hy@maketitle@optarg[#1]{%
17606     \HyOrg@maketitle[#{#1}]%
17607     \Hy@maketitle@end
17608 }%
17609 \def\Hy@maketitle@end{%
17610     \ifx\@footnotemark\H@@footnotemark
17611         \let\@footnotemark\Hy@saved@footnotemark
17612     \fi
17613     \ifx\@footnotetext\H@@footnotetext
17614         \let\@footnotetext\Hy@saved@footnotetext
17615     \fi
17616     \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
17617         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17618     \fi
17619     \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext

```



```

17620     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17621     \fi
17622   }%
17623   \def\realfootnote{%
17624     \@ifnextchar[\@xfootnote{%
17625       \stepcounter{\@mpfn}%
17626       \protected@xdef\@thefnmark{\thempfn}%
17627       \H@@footnotemark\H@@footnotetext
17628     }%
17629   }%
17630 \fi
17631 \def\Hy@BeginAnnot#1{%
17632   \ifmmode\else\beginL\fi%
17633   \global\advance\c@Hy@AnnotLevel\@ne
17634   \ifnum\c@Hy@AnnotLevel=\@ne
17635     #1%
17636   \fi
17637 }
17638 \def\Hy@endAnnot{%
17639   \ifnum\c@Hy@AnnotLevel=\@ne
17640     \Hy@endcolorlink
17641     \@pdfm@mark{eann}%
17642   \fi
17643   \global\advance\c@Hy@AnnotLevel\m@ne
17644   \ifmmode\else\endL\fi%
17645 }
17646 \def\hyper@link#1#2#3{%
17647   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
17648 }
17649 \def\hyper@linkfile#1#2#3{%
17650   \leavevmode
17651   \Hy@BeginAnnot{%
17652     \def\Hy@pstringF{#2}%
17653     \Hy@CleanupFile\Hy@pstringF
17654     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17655     \Hy@pstringdef\Hy@pstringD{#3}%
17656     \Hy@MakeRemoteAction
17657     \@pdfm@mark{%
17658       bann<<%
17659         /Type/Annot%
17660         /Subtype/Link%
17661         \ifHy@pdfa /F 4\fi
17662         \Hy@setpdfborder
17663         \ifx\@filebordercolor\relax
17664         \else
17665           /C[\@filebordercolor]%
17666         \fi
17667         /A<<%
17668         /S/GoToR%
17669         /F(\Hy@pstringF)%
17670         /D%
17671         \ifx\#3\%
17672           [\Hy@href@page\@pdfremotestartview]%
17673         \else

```



```

17674         (\Hy@pstringD)%
17675         \fi
17676         \Hy@SetNewWindow
17677         \Hy@href@nextactionraw
17678         >>%
17679     >>%
17680 }%
17681 \Hy@colorlink\@filecolor
17682 }%
17683 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17684 \Hy@endAnnot
17685 }
17686 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17687 \leavevmode
17688 \Hy@BeginAnnot{%
17689 \Hy@pstringdef\Hy@pstringF{#1}%
17690 \Hy@pstringdef\Hy@pstringP{#3}%
17691 \@pdfm@mark{%
17692 bann<<%
17693 /Type/Annot%
17694 /Subtype/Link%
17695 \ifHy@pdfa /F 4\fi
17696 \Hy@setpdfborder
17697 \ifx\@runbordercolor\relax
17698 \else
17699 /C[\@runbordercolor]%
17700 \fi
17701 /A<<%
17702 /F(\Hy@pstringF)%
17703 /S/Launch%
17704 \Hy@SetNewWindow
17705 \ifx\#3\%
17706 \else
17707 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17708 \fi
17709 \Hy@href@nextactionraw
17710 >>%
17711 >>%
17712 }%
17713 \Hy@colorlink\@runcolor
17714 }%
17715 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17716 \Hy@endAnnot
17717 }
17718 \def\@hyper@linkurl#1#2{%
17719 \leavevmode
17720 \Hy@BeginAnnot{%
17721 \Hy@pstringdef\Hy@pstringURI{#2}%
17722 \@pdfm@mark{%
17723 bann<<%
17724 /Type/Annot%
17725 /Subtype/Link%
17726 \ifHy@pdfa /F 4\fi
17727 \Hy@setpdfborder

```



```

17728     \ifx\@urlbordercolor\relax
17729     \else
17730         /C[\@urlbordercolor]%
17731     \fi
17732     /A<<%
17733         /S/URI%
17734         /URI(\Hy@pstringURI)%
17735     \ifHy@href@ismap
17736         /IsMap true%
17737     \fi
17738     \Hy@href@nextactionraw
17739     >>%
17740     >>%
17741     }%
17742     \Hy@colorlink\@urlcolor
17743 }%
17744 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17745 \Hy@EndAnnot
17746 }
17747 \def\Acrobatmenu#1#2{%
17748     \Hy@Acrobatmenu{#1}{#2}{%
17749         \Hy@BeginAnnot{%
17750             \EdefEscapeName\Hy@temp@menu{#1}%
17751             \@pdfm@mark{%
17752                 bann<<%
17753                     /Type/Annot%
17754                     /Subtype/Link%
17755                 \ifHy@pdfa /F 4\fi
17756                 \Hy@setpdfborder
17757                 \ifx\@menubordercolor\relax
17758                 \else
17759                     /C[\@menubordercolor]%
17760                 \fi
17761                 /A<<%
17762                     /S/Named%
17763                     /N/\Hy@temp@menu
17764                 \Hy@href@nextactionraw
17765                 >>%
17766                 >>%
17767             }%
17768             \Hy@colorlink\@menucolor
17769         }%
17770         \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17771         \Hy@EndAnnot
17772     }%
17773 }
17774 \def\hyper@natlinkstart#1{%
17775     \Hy@backout{#1}%
17776     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17777     \def\hyper@nat@current{#1}%
17778 }
17779 \def\hyper@natlinkend{%
17780     \if@RTL\endR\fi\hyper@linkend
17781 }

```



```

17782 \def\hyper@natlinkbreak#1#2{%
17783   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17784 }%
17785 }
17786 \pdfstringdefDisableCommands{%
17787 \let\LRE\@firstofone
17788 \let\LR\@firstofone
17789 \let\RLE\@firstofone
17790 \let\RL\@firstofone
17791 \def\XeTeX{Xe\TeX}%
17792 \def\XeLaTeX{Xe\LaTeX}%
17793 }
17794 \bidi@patchcmd\@TextField{%
17795   \@pdfm@mark
17796 }{%
17797   \if@RTL
17798     \hskip\Fld@width
17799   \fi
17800   \@pdfm@mark
17801 }-{}-{}
17802 \bidi@patchcmd\@TextField{%
17803   \unhbox
17804 }{%
17805   \if@RTL
17806     \hskip-\Fld@width
17807   \fi
17808   \unhbox
17809 }-{}-{}
17810 \bidi@patchcmd\@@Radio{%
17811   \@pdfm@mark
17812 }{%
17813   \if@RTL
17814     \hskip\Fld@width
17815   \fi
17816   \@pdfm@mark
17817 }-{}-{}
17818 \bidi@patchcmd\@@Radio{%
17819   \unhcopy
17820 }{%
17821   \if@RTL
17822     \hskip-\Fld@width
17823   \fi
17824   \unhcopy
17825 }-{}-{}
17826 \bidi@patchcmd\@Submit{%
17827   \@pdfm@mark
17828 }{%
17829   \if@RTL
17830     \null
17831     \hskip\wd\pdfm@box
17832   \fi
17833   \@pdfm@mark
17834 }-{}-{}
17835 \bidi@patchcmd\@Submit{%

```



```

17836 \unhbox
17837 }{%
17838 \if@RTL
17839 \hskip-\wd\pdfm@box
17840 \fi
17841 \unhbox
17842 }{}{}
17843 \bidi@patchcmd\@Reset{%
17844 \@pdfm@mark
17845 }{%
17846 \if@RTL
17847 \null
17848 \hskip\wd\pdfm@box
17849 \fi
17850 \@pdfm@mark
17851 }{}{}
17852 \bidi@patchcmd\@Reset{%
17853 \unhbox
17854 }{%
17855 \if@RTL
17856 \hskip-\wd\pdfm@box
17857 \fi
17858 \unhbox
17859 }{}{}

```

103 File `imsproc-xetex-bidi.def`

```

17860 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspoc class for
17861 \newenvironment{thebibliography}[1]{%
17862 \@bibtitlestyle
17863 \normalfont\bibliofont\labelsep .5em\relax
17864 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17865 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17866 \bidi@thebibliography@font@hook
17867 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17868 \leftmargin\labelwidth \advance\leftmargin\labelsep
17869 \usecounter{enumiv}}%
17870 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17871 \sfcode`\.=\@m
17872 }{%
17873 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17874 \endlist
17875 }
17876
17877 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17878 \columnseprule\z@ \columnsep 35\p@
17879 \@indextitlestyle
17880 \thispagestyle{plain}%
17881 \let\item\@idxitem
17882 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17883 \if@RTL\raggedleft\else\raggedright\fi
17884 \hyphenpenalty\@M
17885 \footnotesize}
17886 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}

```



```

17887 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17888 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17889
17890 \def\right@footnoterule{%
17891   \kern-.4\p@
17892   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17893   \kern11\p@\kern-\footnotesep}
17894 \def\left@footnoterule{\kern-.4\p@
17895   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17896 \def\@makefnmark{%
17897   \leavevmode
17898   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
17899 }
17900
17901 \def\part{\@startsection{part}{0}%
17902   \z@\linespacing\@plus\linespacing}{.5\linespacing}%
17903   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17904 \def\@tocline#1#2#3#4#5#6#7{\relax
17905   \ifnum #1>\c@tocdepth % then omit
17906   \else
17907     \par \addpenalty\@secpenalty\advvspace{#2}%
17908     \begingroup \hyphenpenalty\@M
17909     \ifempty{#4}{%
17910       \@tempdima\csname r@tocindent\number#1\endcsname\relax
17911     }{%
17912       \@tempdima#4\relax
17913     }%
17914     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax
17915     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17916     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17917     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17918     \nobreak
17919     \endgroup
17920   \fi}
17921 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17922 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17923 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17924 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17925 \def\maketitle{\par
17926   \@topnum\z@ % this prevents figures from falling at the top of page 1
17927   \@setcopyright
17928   \thispagestyle{firstpage}% this sets first page specifications
17929   \uppercasenonmath\shorttitle
17930   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17931   \else \andify\shortauthors
17932   \fi
17933   \@maketitle@hook
17934   \begingroup
17935   \@maketitle
17936   \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
17937   \toks4{\def\\{\ignorespaces}}% defend against questionable usage
17938   \edef\@tempa{%
17939     \@nx\markboth{\the\toks4
17940       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%

```



```

17941 \@tempa
17942 \endgroup
17943 \c@footnote\z@
17944 \@cleartopmattertags
17945 }

```

104 File leqno-xetex-bidi.def

```

17946 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX
17947 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
17948 \rlap{\hskip -\displaywidth
17949 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR

```

105 File letter-xetex-bidi.def

```

17950 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter cl
17951 \renewcommand*\opening}[1]{\ifx\@empty\fromaddress
17952 \thispagestyle{firstpage}%
17953 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17954 \else % home address
17955 \thispagestyle{empty}%
17956 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17957 \fromaddress \*[2\parskip]%
17958 \@date \end{tabular}\par}%
17959 \fi
17960 \vspace{2\parskip}%
17961 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
17962 \vspace{2\parskip}%
17963 #1\par\nobreak}
17964 \renewcommand\left@footnoterule{%
17965 \kern-\p@
17966 \hrule \@width .4\columnwidth
17967 \kern .6\p@}
17968 \renewcommand\right@footnoterule{%
17969 \kern-\p@
17970 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17971 \kern .6\p@}

```

106 File lettrine-xetex-bidi.def

```

17972 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package
17973 \RemoveFromHook{begindocument}[lettrine]
17974 \AtBeginDocument[lettrine]{%
17975 \if\DefaultOptionsFile\relax
17976 \else
17977 \InputIfFileExists{\DefaultOptionsFile}%
17978 {}%
17979 {\PackageWarning{lettrine.sty}%
17980 {File \DefaultOptionsFile\space not found}%
17981 }%
17982 \fi
17983 \let\ifL@RTL\if@RTL
17984 }

```



107 File lineno-xetex-bidi.def

```
17985 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for
17986 \bidi@patchcmd{\MakeLineNo}{%
17987   \hb@xt@\z@\makeLineNumber}%
17988 }{%
17989   \hboxL to \z@\makeLineNumber}%
17990 }{}{}
17991
17992 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
17993   \ifRTL
17994     \hb@xt@\linenumberwidth{\LineNumber\hss}%
17995   \else
17996     \LineNumber
17997   \fi
17998 }{}{}
17999
18000 \bidi@patchcmd{\makeLineNumberRight}{%
18001   \hb@xt@\linenumberwidth{\hss\LineNumber}%
18002 }{%
18003   \ifRTL
18004     \LineNumber
18005   \else
18006     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18007   \fi
18008 }{}{}
18009
18010 \bidi@AfterPreamble{%
18011   \ifRTLmain
18012     \rightlinenumbers*
18013   \else
18014     \leftlinenumbers*
18015   \fi
18016   \@ifpackagewith{lineno}{left}{%
18017     \leftlinenumbers*
18018   }{}
18019   \@ifpackagewith{lineno}{right}{%
18020     \rightlinenumbers*
18021   }{}
18022   \@ifpackagewith{lineno}{switch}{%
18023     \ifRTLmain
18024       \switchlinenumbers*%
18025     \else
18026       \switchlinenumbers
18027     \fi
18028   }{}
18029   \@ifpackagewith{lineno}{switch*}{%
18030     \ifRTLmain
18031       \switchlinenumbers
18032     \else
18033       \switchlinenumbers*%
18034     \fi
18035   }{}
18036 }
```



18037

108 File listings-xetex-bidi.def

```
18038 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18039 \lst@Key{captiondirection}{textdirection}{%
18040   \lstKV@SwitchCases{#1}%
18041   {textdirection:\\%
18042     RTL:\chardef\bidi@lst@caption@direction@one\\%
18043     LTR:\chardef\bidi@lst@caption@direction@z@%
18044   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18045
18046 \lst@Key{captionscript}{textscript}{%
18047   \lstKV@SwitchCases{#1}%
18048   {textscript:\\%
18049     latin:\chardef\bidi@lst@caption@script@one\\%
18050     nonlatin:\chardef\bidi@lst@caption@script@z@%
18051   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18052
18053 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18054   \@ifundefined{bidi@lst@caption@direction}{-}{%
18055     \ifnum\bidi@lst@caption@direction=\z@%
18056       #1%
18057     \else%
18058       \ifnum\bidi@lst@caption@direction=\@ne%
18059         #2%
18060       \fi%
18061     \fi%
18062   }}
18063
18064 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18065   \@ifundefined{bidi@lst@caption@script}{-}{%
18066     \ifnum\bidi@lst@caption@script=\z@%
18067       #1%
18068     \else%
18069       \ifnum\bidi@lst@caption@script=\@ne%
18070         #2%
18071       \fi%
18072     \fi%
18073   }}
18074
18075 \long\def\@bidi@lst@makecaption#1#2{%
18076   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18077   \vskip\abovcaptionskip
18078   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18079   \sbox\@tempboxa{%
18080     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18081     #1: #2%
18082     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18083   }%
18084   \ifdim \wd\@tempboxa >\hspace
18085     #1: #2\par
18086   \else
18087     \global \@minipagefalse
```



```

18088     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18089     \fi
18090     \vskip\belowcaptionskip}%
18091 \def\lst@makecaption{\@bidi@lst@makecaption}
18092 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18093 \bidi@AtEndPreamble{%
18094 \bidi@patchcmd{\lst@MakeCaption}{%
18095     \ifx #1%
18096         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18097             \expandafter\refstepcounter
18098         \fi {lstlisting}%
18099 }{%
18100     \ifx #1%
18101         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18102         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18103             \expandafter\refstepcounter
18104         \fi {lstlisting}%
18105         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18106 }-}{-}%
18107 \bidi@patchcmd{\lst@MakeCaption}{%
18108     \addcontentsline{lol}{lstlisting}%
18109     {\protect\numberline{\thelstlisting}\lst@@caption}%
18110 }{%
18111 \begingroup%
18112     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18113     \addcontentsline{lol}{lstlisting}%
18114     {\protect\numberline{\thelstlisting}\lst@@caption}%
18115 \endgroup%
18116 }-}{-}%
18117 }
18118 \ApplyPatchIfPackageLoaded{caption}{%
18119 \AtBeginCaption{%
18120 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18121 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18122 }
18123 \let\@bidi@lst@makecaption\caption@makecaption%
18124 \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18125 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18126 }{%
18127 \AtBeginDocument{%
18128 \@ifundefined{captionlabelfalse}{-}{-}%
18129 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18130 \@ifundefined{captionstartrue}{-}{-}%
18131 \def\lst@maketitle{\captionstartrue\@bidi@lst@makecaption\@empty}}%
18132 }%
18133 }
18134 \AtBeginDocument{
18135 \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{-}
18136 \lst@ifnumberbychapter
18137     \gdef\thelstlisting%
18138     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18139 \else
18140     \gdef\thelstlisting{\@arabic\c@lstlisting}
18141 \fi}

```



109 File longtable-xetex-bidi.def

```
18142 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18143 \ExplSyntaxOn
18144 \def\LT@array[#1]#2{%
18145   \UseTaggingSocket{tbl/init}
18146   \tl_if_empty:eTF { \LTcapytype }
18147   {
18148     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18149   }
18150   {
18151     \@kernel@refstepcounter{\LTcapytype}\stepcounter{LT@tables}
18152     \tl_gset:Ne \@currentHref {LTcapytype.\cs_if_exist_use:c {theH\LTcapytype}}
18153   }
18154   \tbl_gzero_row_count:
18155   \UseTaggingSocket{tbl/longtable/init}
18156   \if l#1%
18157     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18158   \else\if r#1%
18159     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18160   \else\if c#1%
18161     \LTleft\fill \LTright\fill
18162   \fi\fi\fi
18163   \let\LT@mcoll\multicolumn
18164   \let\LT@@tabarray\@tabarray
18165   \let\LT@@hl\hline
18166   \def\@tabarray{%
18167     \let\hline\LT@@hl
18168     \LT@@tabarray}%
18169   \let\@LT@tabularcr
18170   \let\@tabularnewline\@
18171   \def\@newpage{\noalign{\break}}%
18172   \def\@pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18173   \def\@nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18174   \let\@hline\LT@hline \let\@kill\LT@kill\let\@caption\LT@caption
18175   \@tempdima\ht\strutbox
18176   \let\@endpbox\LT@endpbox
18177   \ifx\extrarowheight\@undefined
18178     \let\@acol\@tabacol
18179     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18180     \def\@startpbox{\vtop\LT@startpbox}%
18181     \let\@@startpbox\@startpbox
18182     \let\@@endpbox\@endpbox
18183     \let\LT@LL@FM@cr\@tabularcr
18184   \else
18185     \advance\@tempdima\extrarowheight
18186     \col@sep\@tabcolsep
18187     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18188   \fi
18189   \setbox\@arstrutbox\hbox{\vrule
18190     \@height \arraystretch \@tempdima
18191     \@depth \arraystretch \dp \strutbox
18192     \@width \z@}%
18193   \let\@sharp#\let\protect\relax
```



```

18194 \begingroup
18195 \mkpream{#2}%
18196 \tbl_count_table_cols:
18197 \xdef\LT@bchunk{%
18198 \tbl_inbetween_rows:
18199 \global\advance\c@LT@chunks\@ne
18200 \global\LT@rows\z@\setbox\z@\vbox\bgroup
18201 \LT@setprevdepth
18202 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18203 \tabskip\z@ \@arstrut
18204 \UseTaggingSocket{tbl/row/begin}%
18205 \tbl_init_cell_data_for_row:
18206 \@preamble \tabskip\LTright \cr}%
18207 \endgroup
18208 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18209 \LT@make@row
18210 \m@th\let\par\@empty
18211 \everycr{%
18212 \noalign{%
18213 \tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space
18214 row:~ \the\g__tbl_row_int \space
18215 column:~ \the\g__tbl_col_int
18216 }
18217 \tbl_if_row_was_started:T
18218 {
18219 \UseTaggingSocket{tbl/row/end}
18220 \tbl_inbetween_rows:
18221 }
18222 \int_compare:nNnT \LT@rows < \LT@chunksize
18223 { \tbl_gincr_row_count: } % next is row about to start
18224 }%
18225 }%
18226 \lineskip\z@\baselineskip\z@
18227 \LT@bchunk}
18228 \ExplSyntaxOff
18229 \def\LT@makecaption#1#2#3{%
18230 \LT@mc@LT@cols c{\hbox to\z@{\hss\parbox[t]\LT@capwidth{%
18231 \reset@font
18232 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18233 \ifdim\wd\@tempboxa>\hsize
18234 #1{#2: }#3%
18235 \else
18236 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18237 \fi
18238 \endgraf\vskip\baselineskip}%
18239 \hss}}}
18240 \ApplyPatchCodeToPackage{caption}{%
18241 \renewcommand\LT@makecaption[3]{%
18242 \caption@LT@make{%
18243 \caption@LT@settype\LT@captiontype
18244 \caption@LT@setup
18245 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18246 \caption@startrue#1\caption@starfalse
18247 \caption@prepare@stepcounter\LT@captiontype

```



```

18248     \caption@begin\LTcaption
18249     \caption@normalsize
18250     \vskip-\ht\strutbox
18251     \caption@ifdefined\FBifcaptop{%
18252         \let\caption@belowskip\@empty}%
18253     \caption@make@above
18254     \caption@@make{#2}{#3}\endgraf
18255     \caption@make@below
18256     \caption@end}}%
18257 }
18258 \def\LT@startpbox#1{%
18259   \bgroup
18260   \color@begingroup
18261   \let\@footnotetext\LT@p@ftntext
18262   \let\@LTRfootnotetext\LT@p@LTRftntext
18263   \let\@RTLfootnotetext\LT@p@RTLftntext
18264   \setlength\hsize{#1}%
18265   \@arrayparboxrestore
18266   \everypar{%
18267     \vrule \@height \ht\@arstrutbox \@width \z@
18268     \everypar{}}%
18269   }
18270 \long\def\LT@p@LTRftntext#1{%
18271   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18272   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18273 \long\def\LT@p@RTLftntext#1{%
18274   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18275   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18276 \def\LT@output{%
18277   \ifnum\outputpenalty <-\@Mi
18278     \ifnum\outputpenalty > -\LT@end@pen
18279       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18280     \else
18281       \setbox\z@\vbox{\unvbox\@cclv}%
18282       \ifdim \ht\LT@lastfoot>\ht\LT@foot
18283         \dimen@\pagegoal
18284         \advance\dimen@\ht\LT@foot
18285         \advance\dimen@-\ht\LT@lastfoot
18286         \ifdim\dimen@<\ht\z@
18287           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18288           \@makecol
18289           \@outputpage
18290           \global\vsizer\@colroom
18291           \setbox\z@\vbox{\box\LT@head}%
18292         \fi
18293       \fi
18294       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18295       \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18296       \UseTaggingSocket{tbl/longtable/foot}
18297       \if@RTLtab\egroup\endR\egroup\fi
18298     \fi
18299   \else
18300     \setbox\@cclv\vbox{%
18301     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi

```



```

18302         \unvbox\@cclv\copy\LT@foot\vss
18303         \if@RTLtab\egroup\endR\egroup\fi
18304     }%
18305     \UseTaggingSocket{tbl/longtable/foot}
18306     \@makecol
18307     \@outputpage
18308     \global\ysize\@colroom
18309     \copy\LT@head\nobreak
18310 \fi}

```

110 File `lscope-xetex-bidi.def`

```

18311 \ProvidesFile{lscope-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscope package for
18312 \RequirePackage{graphicx}
18313 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18314   \if@RTL
18315     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18316   \else
18317     \rotatebox{90}{\box\@outputbox}%
18318   \fi
18319 }{}{}
18320
18321 \g@addto@macro{\landscape}{%
18322   \if@bidi@csdef{bidi@columnwidth}{%
18323     \bidi@columnwidth\columnwidth
18324   }{}%
18325   \let\bidi@left@footnoterule\left@footnoterule
18326   \let\bidi@right@footnoterule\right@footnoterule
18327   \def\left@footnoterule{%
18328     \if@RTL
18329       \bidi@right@footnoterule
18330     \else
18331       \bidi@left@footnoterule
18332     \fi
18333   }%
18334   \def\right@footnoterule{%
18335     \if@RTL
18336       \bidi@left@footnoterule
18337     \else
18338       \bidi@right@footnoterule
18339     \fi
18340   }%
18341 }

```

111 File `mathtools-xetex-bidi.def`

```

18342 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18343 \RequirePackage{graphicx}
18344 \MHInternalSyntaxOn
18345 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18346   \@namedef{MT_tagform_#1:n}##1
18347   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
18348 }
18349 \renewtagform{default}{({})}

```



18350 \MHInternalSyntaxOff

112 File mdframed-xetex-bidi.def

```
18351 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package]
18352 \newif\if@bidi@mdf@RTL
18353 \def\mdf@lrbox#1{%
18354   \mdf@patchamsthm%patch amsthm
18355   \if@RTL\@bidi@mdf@RTLtrue\fi%
18356   \@RTLfalse%
18357   \setbox#1\ vbox\bgroup%
18358   \color@begingroup%
18359   \if@bidi@mdf@RTL\@RTLtrue\fi%
18360   \mdf@horizontalmargin@equation%
18361   \columnwidth=\hsize%
18362   \textwidth=\hsize%
18363   \let\if@nobreak\iffalse%
18364   \let\if@noskipsec\iffalse%
18365   \let\par\@par%
18366   \let\-\@dischyph%
18367   \let'\@acci\let`\@accii\let=\@acciii%
18368   \parindent\z@ \parskip\z@skip%
18369   \linewidth\hsize%
18370   \@totalleftmargin\z@%
18371   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18372   \parfillskip\@flushglue \lineskip\normallineskip%
18373   \baselineskip\normalbaselineskip%
18374 %% \sloppy%
18375   \let\\\@normalcr%
18376   \mdf@par@local%New feature to restore parskip/parindent local in save box
18377   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18378   \@afterindentfalse%
18379   %\@afterheading%
18380 }
18381 \renewrobustcmd\mdfframedtitleenv[1]{%
18382   \mdf@lrbox{\mdf@frametitlebox}%
18383   \mdf@frametitlealignment%
18384   \leavevmode{\color{\mdf@frametitlefontcolor}%
18385     \normalfont\mdf@frametitlefont{#1}
18386     \ifbool{mdf@ignorerelastdescenders}%
18387       {%
18388         \par\strut\par
18389         \unskip\unskip\setbox0=\lastbox
18390         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18391       }{}%
18392   \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18393   \endmdf@lrbox\relax%
18394   \mdf@ignorevbadness%
18395   \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18396   \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18397   \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18398   \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18399   \mdfframetitleboxtotalheight=\dimexpr
18400     \ht\mdf@frametitlebox
```




```

18401             +\dp\mdf@frametitlebox%
18402             +\mdf@frametitleaboveskip@length
18403             +\mdf@frametitlebelowskip@length
18404             \relax%
18405 }
18406
18407 \renewrobustcmd*\mdf@footnoteoutput{%
18408     \ifvoid\@mpfootins\else%
18409         \nobreak%
18410         \vskip\mdf@footnotedistance@length%
18411         \normalcolor%
18412         \bidi@mpfootnoterule%
18413         \unvbox\@mpfootins%
18414     \fi%
18415 }
18416
18417
18418 \renewrobustcmd*\mdf@footnoteinput{%
18419     \def\@mpfn{mpfootnote}%
18420     \def\thempfn{\thempfootnote}%
18421     \c@mpfootnote\z@%
18422     \let\@footnotetext\@mpfootnotetext%
18423     \let\@LTRfootnotetext\@mpLTRfootnotetext%
18424     \let\@RTLfootnotetext\@mpRTLfootnotetext%
18425 }

```

113 File media9-xetex-bidi.def

```

18426 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18427 \RequirePackage{bidi-media9}

```

114 File bidi-media9.sty

```

18428 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18429 {bidi fixes for media9 package for the XeTeX engine}
18430
18431 \keys_define:nn{media9/mbtn}{
18432   draft .code:n = {},
18433   final .code:n = {},
18434
18435   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18436   tooltip .value_required:n = {true},
18437
18438   overface .code:n = {
18439     \sbox\l_mix_poster_box{
18440       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18441       \mix_pdfxform:n{\l_mix_poster_box}
18442       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18443     },
18444     overface .value_required:n = {true},
18445
18446     downface .code:n = {
18447       \sbox\l_mix_poster_box{
18448         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}

```



```

18449   \mix_pdfxform:n{\l_mix_poster_box}
18450   \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18451 },
18452 downface .value_required:n = {true},
18453
18454 3Dgotoview .code:n = {
18455   \tl_set:Nx\l_tmpa_tl{#1}           %extract ref
18456   \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl
18457   \tl_trim_spaces:N\l_tmpa_tl
18458   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18459     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18460       \tl_set:Nx\l_tmpb_tl{#1}       %extract idx
18461       \regex_replace_once:nnN{[~:~]+?}{\1}\l_tmpb_tl
18462       \tl_trim_spaces:N\l_tmpb_tl
18463       \tl_if_blank:VF\l_tmpb_tl{
18464         \regex_match:nVTF{^DFLNP$}\l_tmpb_tl{
18465           \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
18466         }{
18467           \regex_match:nVTF{^~d+$}\l_tmpb_tl{
18468             \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
18469           }{
18470             \regex_replace_once:nnN{^(\s*)}{\1}\l_tmpb_tl
18471             \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
18472             \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
18473           }
18474         }
18475       }
18476     \mix_pdfobj:nnn{}{dict}{
18477       /S/JavaScript/JS~(
18478         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18479         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18480           annotRM['\l_tmpa_tl']=
18481             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18482         }
18483         annotRM['\l_tmpa_tl'].activated=true;
18484       )
18485       \tl_if_blank:VF\l_tmpb_tl{
18486         /Next~<<
18487         /S/GoTo3DView
18488         /TA~\tl_use:c{ann@\l_tmpa_tl}
18489         /V\l_mix_vidx_tl
18490         >>
18491       }
18492     }
18493     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18494   }{
18495     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18496     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18497       \tl_new:N\g_mix_refundefwarned_tl
18498       \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18499     }
18500   }
18501 }
18502 },

```



```

18503 3Dgotoview .value_required:n = {true},
18504
18505 mediacommand .code:n = {
18506   \tl_set:Nx\l_tmpa_tl{#1}
18507   \regex_replace_once:nnN{([~:]+)??.*}{\1}\l_tmpa_tl %extract ref
18508   \tl_trim_spaces:N\l_tmpa_tl
18509   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18510     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18511       \tl_set:Nx\l_tmpb_tl{#1}
18512       \regex_replace_once:nnN{[~:]+\:~}{\1}\l_tmpb_tl
18513       \tl_trim_spaces:N\l_tmpb_tl
18514       \regex_replace_all:nnN{^{\|}$}{\1}\l_tmpb_tl
18515       \tl_set:Nx\l_mix_cmd_tl{
18516         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18517       \tl_trim_spaces:N\l_mix_cmd_tl
18518       \tl_set:Nx\l_mix_arg_tl{
18519         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18520       \tl_trim_spaces:N\l_mix_arg_tl
18521       \mix_pdfobj:nnn{}{dict}{
18522         /S/JavaScript/JS~(
18523           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18524           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18525             annotRM['\l_tmpa_tl']=
18526               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18527           }
18528           annotRM['\l_tmpa_tl'].activated=true;
18529         )
18530       \tl_if_blank:VF\l_mix_cmd_tl{
18531         /Next~<<
18532         /S/RichMediaExecute
18533         /TA~\tl_use:c{ann@\l_tmpa_tl}
18534         /TI~\tl_use:c{main@\l_tmpa_tl}
18535         /CMD~<<
18536         /C~(\l_mix_cmd_tl)
18537         \tl_if_blank:VF\l_mix_arg_tl{
18538           /A~[\l_mix_arg_tl]
18539         }
18540         >>
18541         >>
18542       }
18543     }
18544     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18545   }
18546 }{
18547   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18548   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18549     \tl_new:N\g_mix_refundefwarned_tl
18550     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18551   }
18552 }
18553 },
18554 mediacommand .value_required:n = {true},
18555
18556 jsaction .code:n = {

```



```

18557 \tl_set:Nx\l_tmpa_tl{#1}
18558 \regex_match:nVTF{^[^:]+:.*$}\l_tmpa_tl{
18559   \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
18560   \tl_trim_spaces:N\l_tmpa_tl
18561 }{\tl_clear:N\l_tmpa_tl}
18562 \tl_set:Nx\l_tmpb_tl{#1}
18563 \tl_if_blank:VF\l_tmpa_tl{
18564   \tl_if_exist:cF{ann@\l_tmpa_tl}{
18565     \msg_warning:nx{media9}{undefined-reference}{\l_tmpa_tl}
18566     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18567       \tl_new:N\g_mix_refundefwarned_tl
18568       \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18569     }
18570   }
18571   \regex_replace_once:nnN{[~:]+\:}{\1}\l_tmpb_tl
18572 }
18573 \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18574 \tl_trim_spaces:N\l_tmpb_tl
18575 \tl_if_blank:VF\l_tmpb_tl{
18576   \mix_pdfobj:nnn{}{dict}{
18577     /S/JavaScript/JS~(
18578       try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18579   \bool_lazy_and:nnT{
18580     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18581   }{
18582     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18583   }{
18584     \mix_pdfobj:nnn{}{dict}{
18585       /S/JavaScript/JS~(
18586         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18587         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18588           annotRM['\l_tmpa_tl']=
18589             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18590         }
18591         annotRM['\l_tmpa_tl'].activated=true;
18592       )
18593       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18594     }
18595   }
18596   \bool_if:nT{
18597     \bool_lazy_and_p:nn{
18598       \tl_if_exist_p:c{ann@\l_tmpa_tl}
18599     }{
18600       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18601     }
18602     || !\tl_if_blank_p:V\l_tmpb_tl
18603   }{
18604     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18605   }
18606 },
18607 jsaction .value_required:n = {true},
18608
18609 unknown .code:n = {
18610   \msg_error:nx{media9}{unknown-option}{\l_keys_key_tl}

```



```

18611 }
18612 }
18613
18614 \RenewDocumentCommand\includemedia{0{mm}}{%#1 options, #2 text/image #3 media file
18615 \mix_uriend:
18616 \group_begin:
18617 \mix_beginLTR:
18618 \mode_leave_vertical:
18619 %empty stream as appearance dummy
18620 \cs_if_exist:Nf\g_mix_appearance_tl{
18621 \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18622 \mix_pdfxform:n{\l_mix_poster_box}
18623 \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18624 }
18625 \mix_reset:
18626 \mix_urbegin: %treat URI characters correctly
18627 \keys_set:nn{media9/user}{#1}
18628 \mix_uriend:
18629 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18630 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18631 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}={=}
18632 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18633 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18634
18635 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18636
18637 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18638 %\hbox_set:Nn\l_mix_poster_box{#2}
18639 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18640 \mix_scale:n{\l_mix_poster_box}
18641 \bool_if:nT{
18642 \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18643 \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18644 }{
18645 \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18646 }
18647 \bool_if:NTF\g_mix_usrdraft_bool{
18648 \tl_if_empty:Nf\g_mix_usrlabel_tl{
18649 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18650 }
18651 \tl_if_blank:oTF{#2}{
18652 \mix_urbegin: %treat URI characters correctly
18653 \mix_draftbox:n{\tl_to_str:n{#3}}
18654 \mix_uriend:
18655 }{
18656 \hbox_to_wd:nn{\g_mix_wd_tl}{
18657 \vrule-width~\c_zero_dim-height~\g_mix_ht_tl-depth~\g_mix_dp_tl
18658 \box_use:N\l_mix_poster_box\hss
18659 }
18660 }
18661 }{
18662 \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18663 %attach script that switches off play button overlay upon activation
18664 \mix_pdfobj:nnn{}{stream}{

```



```

18665     {}{
18666         var~ocgs=host.getOCGs(host.pageNum);
18667         for(var~i=0;i<ocgs.length;i++){
18668             if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
18669                 ocgs[i].state=false;
18670             }
18671         }
18672     }
18673 }
18674 \mix_pdfobj:nnn}{dict}{
18675     /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18676 }
18677 \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18678 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18679 %enforce plain playbutton overlay for XeTeX
18680 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18681 }
18682 %embed main asset
18683 \mix_uribegin:
18684 \mix_embedasset:n{#3}
18685 \bool_if:nTF{
18686     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18687 }{
18688     \bool_gset_true:N\g_mix_iiid_bool
18689     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18690 }{
18691     \str_case_e:nnF{\l_mix_base_tl}{
18692         {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18693         {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18694         {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18695         {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18696         {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18697     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18698 }
18699 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18700 \mix_uriend:
18701 %secondary assets (added by addresource)
18702 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18703 \seq_map_inline:Nn\g_mix_script_seq{
18704     \mix_embedasset:n{##1}
18705     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18706 }
18707 %attach 3D calculation script
18708 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18709     \mix_embedasset:n{3Dmenu.js}
18710     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18711 }
18712 %create 3D views from file (option 3Dviews)
18713 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18714     \tl_set:Nn\l_mix_level_tl{-1}
18715     \int_zero:N\l_mix_viewcnt_int
18716     \int_zero:N\l_mix_lineno_int
18717
18718     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}

```



```

18719     \ior_map_inline:Nn\l_mix_vfile_stream{
18720         \int_incr:N\l_mix_lineno_int
18721         \keys_set:nn{media9/views}{##1} %process input line
18722     }
18723     \ior_close:N\l_mix_vfile_stream
18724 }
18725 \bool_if:nT{ %create default 3D view if required
18726     \g_mix_iiid_bool &&
18727     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18728 }{
18729     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18730     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18731     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18732     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18733     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18734     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18735     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18736
18737     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18738     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18739     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18740     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18741
18742     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18743     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18744     \tl_clear:N\l_mix_naarray_tl
18745
18746     \bool_if:NF\l_mix_ciiw_bool{
18747         \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18748         \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18749     }
18750
18751     \tl_clear:N\l_mix_naarray_tl
18752     \tl_clear:N\l_mix_saarray_tl
18753     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18754
18755     \mix_view:n{Default}
18756     \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18757
18758 }
18759 \mix_pdfobj:nnn{}{dict}{
18760     /Type/RichMediaInstance
18761     /Subtype/\g_mix_mainassetsub_tl
18762     /Asset~\g_mix_mainasset_tl
18763     \bool_if:NF\g_mix_iiid_bool{
18764         /Params~<<
18765         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18766             /Foreground
18767         }{
18768             /Background
18769         }
18770         \tl_if_blank:VF\g_mix_flashvars_tl{
18771             /FlashVars~(\g_mix_flashvars_tl)
18772         }

```



```

18773     >>
18774     }
18775   }
18776   \tl_if_empty:NF\g_mix_usrlabel_tl{
18777     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18778   }
18779   \mix_pdfobj:nnn{}{dict}{
18780     /Type/RichMediaConfiguration
18781     /Subtype/\g_mix_mainassetsub_tl
18782     /Instances~[\mix_pdflastobj:]
18783   }
18784   \mix_pdfobj:nnn{}{dict}{
18785     /Type/RichMediaContent
18786     /Assets~<</Names~[\g_mix_assets_tl]>>
18787     /Configurations~[\mix_pdflastobj:]
18788     \bool_if:nT{
18789       \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18790     }{
18791       /Views~[\l_mix_iiidviewarray_tl]
18792     }
18793   }
18794   \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18795   \bool_if:nT{
18796     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18797   }{
18798     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18799   }
18800   %determine floating window size
18801   \bool_if:NT\g_mix_opt_windowed_bool{
18802     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18803   }
18804   \mix_pdfobj:nnn{}{dict}{
18805     /Activation~<<
18806     /Condition\g_mix_act_tl
18807     \bool_if:nT{
18808       \g_mix_iiid_bool &&
18809       !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18810     }{%seems to work only with 3D content
18811     /Animation~<<
18812       /Subtype/\g_mix_playtpe_tl
18813       /PlayCount~\g_mix_playcnt_tl
18814       /Speed~\g_mix_playspd_tl
18815     >>
18816   }
18817   \bool_if:nT{
18818     \g_mix_iiid_bool && (
18819     \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18820     )
18821   }{/View~\l_mix_dfltview_tl}
18822   /Presentation~<<
18823     /Transparent~\g_mix_transp_tl
18824     \bool_if:NTF\g_mix_opt_windowed_bool{
18825       /Style/Windowed
18826     }/Window~<<

```




```

18827         /Width~<</Default~\tl_mix_fltd>>
18828         /Height~<</Default~\tl_mix_flht>>
18829         /Position~<<
18830         /HOffset~0/VOffset~0
18831         \str_case_e:nnF{\g_mix_winpos_tl}{
18832         {tl}{/VAlign/Near/HAlign/Near}
18833         {cl}{/VAlign/Center/HAlign/Near}
18834         {bl}{/VAlign/Far/HAlign/Near}
18835         {bc}{/VAlign/Far/HAlign/Center}
18836         {br}{/VAlign/Far/HAlign/Far}
18837         {cr}{/VAlign/Center/HAlign/Far}
18838         {tr}{/VAlign/Near/HAlign/Far}
18839         {tc}{/VAlign/Near/HAlign/Center}
18840         }{/HAlign/Center/VAlign/Center}
18841     >>
18842     >>
18843     }{
18844     /Style/Embedded
18845     }
18846     \bool_if:NTF\g_mix_iiid_bool{
18847     /Toolbar~\g_mix_tools_tl
18848     /NavigationPane~\g_mix_nav_tl
18849     }{
18850     /PassContextClick~\g_mix_contextclick_tl
18851     }
18852     >>
18853     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18854     >>
18855     /Deactivation~<</Condition\g_mix_deact_tl>>
18856     }
18857     \tl_set:Nx\l_mix_settings_tl{mix_pdflastobj:}
18858     \tl_if_empty:NF\g_mix_usrlabel_tl{
18859     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18860     }
18861     % #1:width, #2:height, #3:depth, #4:content (key-value)
18862     \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18863     /Subtype/RichMedia
18864     /F~4
18865     /BS~<</W~0/S/S>>
18866     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18867     /NM~(\g_mix_label_tl)
18868     /AP~<</N~\g_mix_appearance_tl>>
18869     /RichMediaSettings~\l_mix_settings_tl
18870     /RichMediaContent~\l_mix_content_tl
18871     }
18872     \tl_if_empty:NF\g_mix_usrlabel_tl{
18873     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18874     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18875     \noexpand\the\g@mix@page@int}
18876     }
18877     \mix_pdfobj:nnn{}{dict}{
18878     /S/JavaScript/JS~(
18879     try{
18880     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}

```



```

18881     if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18882         annotRM['\g_mix_label_tl']=
18883             this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18884     }
18885     \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18886         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18887             var~ocgs=this.getOCGs(this.pageNum);
18888             for(var~i=0;i<ocgs.length;i++){
18889                 if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18890                     var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18891                 }
18892             }
18893         }
18894         if(
18895             !annotRM['\g_mix_label_tl'].activated&&(
18896                 app.viewerType=='Reader' ||
18897                 app.viewerType=='Exchange' ||
18898                 app.viewerType=='Exchange-Pro'
18899             )&&app.viewerVersion>=9
18900         ){
18901             ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18902         }
18903     }
18904 }catch(e){}
18905 this.dirty=false;
18906 )
18907 }
18908 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18909     /Subtype/Widget
18910     /FT/Btn/Ff-65537/F-2
18911     /BS~<</W-0>>
18912     /T~(fd@\g_mix_label_tl)
18913     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18914 }
18915 \mix_appendtofields:n{\mix_pdflastann:}
18916 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18917 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18918     \hbox_to_wd:nn{\g_mix_wd_tl}{
18919         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18920     }
18921 }{%insert play button overlay
18922     \mix_insert_btnocg: %create OCG
18923     \cs_gset_eq:Nc\mix_pbbtn:NN{g@mix@pbbtn@\g_mix_usrpbtn_tl @tl}
18924     \group_begin:
18925     \cs_if_exist:NT\textdir{\textdir TLT}
18926     \sbox\l_mix_pbbtn_box{\mix_pbbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18927     \box_move_down:nn{\g_mix_dp_tl}{
18928         \hbox_to_wd:nn{\g_mix_wd_tl}{
18929             \vbox_to_ht:nn{\g_mix_tt_tl}{
18930                 \vss
18931                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18932                 \box_use:N\l_mix_pbbtn_box
18933                 \ocgbase_oc_emc:
18934             }

```



```

18935     }
18936   }
18937   \group_end:
18938 }
18939 \int_gincr:N\g_mix_rmcnt_int
18940 }
18941 \mix_endLTR:
18942 \group_end:
18943 }
18944 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18945 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18946
18947 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
18948   \mix_urierend:
18949   \group_begin:
18950   \mix_beginLTR:
18951   \mode_leave_vertical:
18952   %reset various variables
18953   \tl_gclear:N\g_mix_overbtn_tl
18954   \tl_gclear:N\g_mix_downbtn_tl
18955   \tl_gclear:N\g_mix_btnactions_tl
18956   \tl_gclear:N\g_mix_tooltip_tl
18957   %process options
18958   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
18959   \mix_uribegin: %treat URI characters correctly
18960   \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
18961   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18962   \mix_urierend:
18963   %normal button appearance
18964   %\hbox_set:Nn\l_mix_poster_box{#2}
18965   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18966   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18967   \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
18968   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
18969   \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
18970     \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
18971       \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
18972     \mix_pdfxform:n{\l_mix_poster_box}
18973     \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
18974     %insert widget annotation
18975     \mix_pdfannot:nnnn{\width}{\height}{\depth}{
18976       /Subtype/Widget
18977       /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
18978       \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
18979       /FT/Btn/Ff~65536
18980       \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
18981       /AP~<<
18982       /N~\g_mix_normalbtn_tl
18983       \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
18984       \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
18985     >>
18986     /MK~<<
18987     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
18988     /I~\g_mix_normalbtn_tl

```



```

18989     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
18990     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
18991     >>
18992     /A~<<
18993     /S/JavaScript/JS~(app.focusRect=false;)
18994     %sequence of actions to perform
18995     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
18996     >>
18997     }
18998     \mix_appendtofields:n{\mix_pdflastann:}
18999     \hbox_to_wd:nn{\width}{
19000     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
19001     }
19002     \int_gincr:N\g_mix_mbtncnt_int
19003     }
19004     \mix_endLTR:
19005     \group_end:
19006 }
19007 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19008 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19009

```

115 File memoir-xetex-bidi.def

```

19010 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
19011 \renewcommand{\keepthetitle}{%
19012   \@bsmtitleempty
19013   \global\let\thanks\relax
19014   \global\let\LTRthanks\relax
19015   \global\let\RTLthanks\relax
19016   \global\let\and\relax
19017   \global\let\andnext\relax
19018   \global\let\@thanks\@empty
19019   \global\let\@title\@empty
19020   \global\let\@author\@empty
19021   \global\let\@date\@empty}
19022 \renewcommand{\maketitle}{\par
19023   \beginingroup
19024     \@bsmarkseries
19025     \def\@makefnmark{\@textsuperscript{%
19026       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
19027     \long\def\@makefntext##1{\makethanksmark ##1}
19028     \if@twocolumn
19029       \ifnum \col@number=\@ne
19030         \@maketitle
19031       \else
19032         \twocolumn[\@maketitle]%
19033       \fi
19034     \else
19035       \ifdim\pagetotal>\z@
19036         \newpage
19037       \fi
19038       \global\@topnum\z@
19039       \@maketitle

```



```

19040   \fi
19041   \thispagestyle{title}\@thanks
19042 \endgroup
19043 \@bscontmark % \setcounter{footnote}{0}%
19044 }
19045 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19046 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19047 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19048 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19049 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19050 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19051 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19052 \renewcommand*{\thesubsection}{%
19053     \thesection\@SepMark\@arabic\c@subsection}
19054 \renewcommand*{\thesubsubsection}{%
19055     \thesubsection\@SepMark\@arabic\c@subsubsection}
19056 \renewcommand*{\theparagraph}{%
19057     \thesubsubsection\@SepMark\@arabic\c@paragraph}
19058 \renewcommand*{\thesubparagraph}{%
19059     \theparagraph\@SepMark\@arabic\c@subparagraph}
19060 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19061 \renewcommand{\theequation}{%
19062     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19063 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19064 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19065 \ifartopt
19066 \chapterstyle{article}
19067 \counterwithout{figure}{chapter}
19068 \counterwithout{table}{chapter}
19069 \counterwithout{footnote}{chapter}
19070 \counterwithout{equation}{chapter}
19071 \renewcommand{\chaptername}{}
19072 \renewcommand{\maketitlehookb}{%
19073     \vskip -1.5\topsep\vskip -1.5\partopsep}
19074 \renewcommand{\maketitlehookc}{%
19075     \vskip -1.5\topsep\vskip -1.5\partopsep}
19076 \fi
19077 \long\def\@makecaption#1#2{\let\@memtempa\relax
19078 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19079 \else \def\@memtempa{\vbox to\topskip{}}\fi
19080 \let\@contfnote\footnote \renewcommand{\footnote}[2][{}]{
19081 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1][{}]{
19082 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19083 \let\footnote\@contfnote
19084 \let\footnotemark\@contfmark
19085 \ifdim\wd\@tempboxa<\linewidth \centering \fi
19086 \if@contcw
19087     \centering
19088     \parbox{\@contcwidth}{%
19089     \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19090 \fi
19091 \ifdim\wd\@tempboxa<\linewidth
19092     \@contpre
19093     {\@contnfont #1\@contdelim}\@memtempa

```



```

19094   {\@contcshortstyle \@conttfont #2\@contfinal\par}
19095 \else
19096   \if@conthang
19097     \sbox\@tempboxa{\@contnfont #1\@contdelim}
19098     \@contpre%
19099     {\@contcstyle\hangindent=\wd\@tempboxa
19100     \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19101   \else
19102     \if@contindent
19103       \@contpre%
19104       {\@contnfont #1\@contdelim}\@memtempa
19105       {\@contcstyle\hangindent=\@contindw
19106         \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19107     \else
19108       \@contpre%
19109       {\@contnfont #1\@contdelim}\@memtempa
19110       {\@contcstyle \@conttfont #2\@contfinal\par}
19111     \fi
19112   \fi
19113 \fi
19114 \@contpost
19115 \if@contcw
19116   \par
19117 } % end of the \parbox
19118 \fi
19119 \vskip\belowcaptionskip}
19120 \ApplyPatchCodeToPackage{caption}{%
19121 \AtBeginPackage{caption}{
19122 \ClassWarningNoLine{memoir}{%
19123 You are using the caption package with the memoir \MessageBreak
19124 class. This may cause unexpected or inconsistent \MessageBreak
19125 results if you use any of memoir's captioning facilities}
19126
19127 \long\def\@makecaption##1##2{%
19128 \vskip\abovecaptionskip
19129 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19130 \ifdim \wd\@tempboxa >\hsize
19131   \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19132 \else
19133   \global \@minipagefalse
19134   \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19135 \fi
19136 \vskip\belowcaptionskip}
19137
19138 \def\caption{%
19139   \ifx\@cptype\@undefined
19140     \@latex@error{\noexpand\caption outside float}\@ehd
19141     \expandafter\@gobble
19142   \else
19143     \refstepcounter\@cptype
19144     \expandafter\@firstofone
19145   \fi
19146   {\@dblarg{\@caption\@cptype}}%
19147 }

```



```

19148
19149 \long\def\@caption##1[##2]##3{%
19150   \par
19151   \addcontentsline{\csname ext@##1\endcsname}{##1}%
19152     {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19153   \begingroup
19154     \@parboxrestore
19155     \if@minipage
19156       \setminipage
19157     \fi
19158     \normalsize
19159     \makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19160   \endgroup}
19161 }}
19162 \renewenvironment{thebibliography}[1]{%
19163   \bibsection
19164   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19165   \bidi@thebibliography@font@hook%
19166   \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

116 File midfloat-xetex-bidi.def

```

19167 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19168 \def\RTL@outputdblcol{%
19169   \if@firstcolumn
19170     \global \@firstcolumnfalse
19171     \global\setbox\@leftcolumn\copy\@outputbox
19172     \splitmaxdepth\maxdimen
19173     \vbadness\maxdimen
19174     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19175     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19176     \toks@\expandafter{\topmark}%
19177     \xdef\@firstcoltopmark{\the\toks@}%
19178     \toks@\expandafter{\splitfirstmark}%
19179     \xdef\@firstcolfirstmark{\the\toks@}%
19180     \ifx\@firstcolfirstmark\@empty
19181       \global\let\@setmarks\relax
19182     \else
19183       \gdef\@setmarks{%
19184         \let\firstmark\@firstcolfirstmark
19185         \let\topmark\@firstcoltopmark}%
19186     \fi
19187     \global\c@colht\@colht\global\c@advvipersep\z@
19188     \ifnum\j@sk>0
19189       \remove@strip\j@sk@sar
19190       \global\@colht\the\j@sk@pr
19191       \ifdim\right@cor>\z@
19192         \global\advance\@colht by\right@cor
19193       \fi
19194       \global\advance\@colht by\cor@height
19195       \global\cor@height=0pt
19196     \fi
19197     \global \setbox\@rightcolumn \vbox{%
19198   \else

```



```

19199 \ifdim\c@colht>\@colht
19200 \@tempdima\@colht
19201 \ifdim\@colht>\z@
19202 \global\setbox\@rightcolumn \vbox{%
19203 \unvbox\@rightcolumn
19204 \vbox to\@tempdima{%
19205 \vskip\c@addvipersep\unvbox\@outputbox}%
19206 \vskip\stripsep
19207 \vrule height\the\juo@ht width Opt depth Opt
19208 \vskip\stripsep
19209 }%
19210 \global\c@addvipersep\m@addvipersep
19211 \else
19212 \global\setbox\@rightcolumn \vbox{%
19213 \unvbox\@rightcolumn
19214 \vrule height\the\juo@ht width Opt depth Opt
19215 \vskip\stripsep
19216 }%
19217 \fi
19218 \ifnum\juo@sk>0
19219 \remove@strip\juo@sar
19220 \global\@colht\the\juo@pr
19221 \global\advance\@colht by -\ht\@rightcolumn
19222 \global\advance\@colht by\cor@height
19223 \global\cor@height=0pt
19224 \else
19225 \global\advance\c@colht by-\ht\@rightcolumn
19226 \global\@colht\c@colht
19227 \fi
19228 \else
19229 \global\@firstcolumntrue
19230 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19231 \unvbox\@rightcolumn
19232 \vskip\c@addvipersep
19233 \unvbox\@outputbox
19234 }%
19235 \setbox\@outputbox \vbox {%
19236 \hb@xt@\textwidth {%
19237 \hskip \columnwidth
19238 \hfil
19239 \vrule \@width\columnseprule
19240 \hfil
19241 \hb@xt@\columnwidth {%
19242 \bidi@firstcolumn@status@write%
19243 \box\@leftcolumn \hss}%
19244 \hskip-\textwidth
19245 \hb@xt@\columnwidth {%
19246 \bidi@lastcolumn@status@write%
19247 \box\@outputbox \hss}%
19248 \hskip\columnwidth
19249 \hskip\columnsep}%
19250 }%
19251 \@combinedblfloats
19252 \@setmarks

```




```

19253 \@outputpage
19254 \begingroup
19255   \@dblfloatplacement
19256   \@startdblcolumn
19257   \@whilesw\if@fcolmade \fi
19258     {\@outputpage
19259       \@startdblcolumn}%
19260 \endgroup
19261 \global\jua@sk=0\global\jua@sar={}%
19262 \global\cor@height\z@\global\c@advipersep\z@
19263 \fi
19264 \fi
19265 }
19266
19267
19268 \def\LTR@outputdblcol{%
19269   \if@firstcolumn
19270     \global \@firstcolumnfalse
19271     \global\setbox\@leftcolumn\copy\@outputbox
19272     \splitmaxdepth\maxdimen
19273     \vbadness\maxdimen
19274     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19275     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19276     \toks@\expandafter{\topmark}%
19277     \xdef\@firstcoltopmark{\the\toks@}%
19278     \toks@\expandafter{\splitfirstmark}%
19279     \xdef\@firstcolfirstmark{\the\toks@}%
19280     \ifx\@firstcolfirstmark\@empty
19281       \global\let\@setmarks\relax
19282     \else
19283       \gdef\@setmarks{%
19284         \let\firstmark\@firstcolfirstmark
19285         \let\topmark\@firstcoltopmark}%
19286     \fi
19287     \global\c@colht\@colht\global\c@advipersep\z@
19288     \ifnum\jua@sk>0
19289       \remove@strip\jua@sar
19290       \global\@colht\the\jua@pr
19291       \ifdim\right@cor>\z@
19292         \global\advance\@colht by\right@cor
19293       \fi
19294       \global\advance\@colht by\cor@height
19295       \global\cor@height=0pt
19296     \fi
19297     \global \setbox\@rightcolumn \vbox{%
19298 \else
19299   \ifdim\c@colht>\@colht
19300     \@tempdima\@colht
19301     \ifdim\@colht>\z@
19302       \global\setbox\@rightcolumn \vbox{%
19303         \unvbox\@rightcolumn
19304         \vbox to\@tempdima{%
19305           \vskip\c@advipersep\unvbox\@outputbox}%
19306         \vskip\stripsep

```



```

19307             \vrule height\the\jua@ht width Opt depth Opt
19308             \vskip\stripsep
19309             }%
19310     \global\c@addvipersep\m@addvipersep
19311     \else
19312     \global\setbox\@rightcolumn \vbox{%
19313             \unvbox\@rightcolumn
19314             \vrule height\the\jua@ht width Opt depth Opt
19315             \vskip\stripsep
19316             }%
19317     \fi
19318     \ifnum\jua@sk>0
19319             \remove@strip\jua@sar
19320             \global\@colht\the\jua@pr
19321             \global\advance\@colht by -\ht\@rightcolumn
19322             \global\advance\@colht by\cor@height
19323             \global\cor@height=Opt
19324     \else
19325             \global\advance\c@colht by-\ht\@rightcolumn
19326             \global\@colht\c@colht
19327     \fi
19328 \else
19329     \global\@firstcolumntrue
19330     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19331             \unvbox\@rightcolumn
19332             \vskip\c@addvipersep
19333             \unvbox\@outputbox
19334             }%
19335     \setbox\@outputbox \vbox {%
19336             \hb@xt@\textwidth {%
19337             \hb@xt@\columnwidth {%
19338             \bidi@firstcolumn@status@write%
19339             \box\@leftcolumn \hss}%
19340             \hfil
19341             \vrule \@width\columnseprule
19342             \hfil
19343             \hb@xt@\columnwidth {%
19344             \bidi@lastcolumn@status@write%
19345             \box\@outputbox \hss}%
19346             }%
19347             }%
19348     \@combinedblfloats
19349     \@setmarks
19350     \@outputpage
19351     \begingroup
19352     \@dblfloatplacement
19353     \@startdblcolumn
19354     \@whilesw\if@fcolmade \fi
19355     {\@outputpage
19356     \@startdblcolumn}%
19357     \endgroup
19358     \global\jua@sk=0\global\jua@sar={}%
19359     \global\cor@height\z@\global\c@addvipersep\z@
19360     \fi

```



```

19361 \fi
19362 }
19363
19364
19365 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19366 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19367 \hspace\textwidth
19368 \@parboxrestore
19369 \col@number \@ne
19370 \vrule height\topskip width0pt depth0pt
19371 }
19372
19373 \def\endstrip{%
19374 \egroup\egroup
19375 \if@firstcolumn
19376 \ifdim\pagetotal>\z@
19377 \vskip\stripsep
19378 \global\ht@strip\pagegoal
19379 \global\advance\ht@strip by-\pagetotal
19380 \global\advance\ht@strip by-\stripsep
19381 \global\advance\ht@strip by-\ht\@viper
19382 \global\advance\ht@strip by-\stripsep
19383 \global\jua@ht=\ht\@viper
19384 \else
19385 \global\ht@strip\z@
19386 \fi
19387 \ifdim\ht@strip>\z@
19388 \unvbox\@viper
19389 \vskip\stripsep
19390 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19391 \global\advance\jua@sk by1
19392 \else
19393 \@latex@error{Strip needs more place!}\@ehc
19394 \if@vihproof
19395 \framebox[\columnwidth]{??? Strip ???}%
19396 \fi
19397 \fi
19398 \else
19399 \@latex@error{Strip is used only on left column!}\@ehc
19400 \if@vihproof
19401 \framebox[\columnwidth]{??? Strip ???}%
19402 \fi
19403 \fi
19404 }

```

117 File minitoc-xetex-bidi.def

```

19405 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19406 \def\@undottedtocline#1#2#3#4#5{%
19407 \ifnum #1>\c@tocdepth\relax \else
19408 \vskip \z@ plus.2\p@
19409 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmarg
19410 \parindent #2\relax\@afterindenttrue
19411 \interlinepenalty\@M

```



```

19412 \leavevmode
19413 \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}}%
19414 \hskip -\if@RTL\rightskip\else\leftskip\fi
19415 #4\nobreak\hfill \nobreak
19416 \null\par}%
19417 \fi}
19418 \def\@Undottedtocline#1#2#3#4#5{%
19419 \ifnum #1>\c@tocdepth\relax \else
19420 \vskip \z@ \@plus.2\p@
19421 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
19422 \parindent #2\relax\@afterindenttrue
19423 \interlinepenalty\@M
19424 \leavevmode
19425 \@tempdima #3\relax
19426 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19427 {\coffeesfont #4}\nobreak \nobreak\null
19428 \par}%
19429 \fi}
19430 \def\@Undottedtoclinep#1#2#3#4#5{%
19431 \ifnum #1>\c@tocdepth\relax \else
19432 \vskip \z@ \@plus.2\p@
19433 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
19434 \parindent #2\relax\@afterindenttrue
19435 \interlinepenalty\@M
19436 \leavevmode
19437 \@tempdima #3\relax
19438 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19439 {#4}\nobreak \hfill \nobreak\null
19440 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19441 \par}%
19442 \fi}

```

118 File multicol-xetex-bidi.def

```

19443 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19444 \def\page@sofar{%
19445 \process@cols\mult@rightbox
19446 {\ifvoid\count@
19447 \setbox\count@\hbox to\hsize{}}%
19448 \else
19449 \wd\count@\hsize
19450 \fi}%
19451 \count@\col@number \advance\count@\m@ne
19452 \mult@info\z@
19453 {Column spec: \the\full@width\space = indent
19454 + columns + sep =\MessageBreak
19455 \the\multicol@leftmargin\space
19456 + \the\col@number\space
19457 x \the\hsize\space
19458 + \the\count@\space
19459 x \the\columnsep
19460 }%
19461 \ifvmode\else\errmessage{Multicol Error}\fi
19462 \nointerlineskip

```



```

19463 \setbox\z@\hbox{p}\global\dimen\tw@dp\z@
19464 \moveright\multicol@leftmargin
19465 \hbox to\full@width{%
19466     \bidi@multicol@align@columns
19467     \rlap{\phantom p}%
19468 }%
19469 \prevdepth\z@
19470 \kern-\dimen\tw@
19471 \ifdim\dimen\tw@ > \mc@gridwarn
19472     \PackageWarning{multicol}%
19473     {Very deep columns!\MessageBreak
19474     Grid alignment might be broken}%
19475 \fi
19476 }
19477 \def\LTR@column@boxes{%
19478     \process@cols\mult@firstbox{%
19479         \ifdimdp\count@>\dimen\tw@
19480             \global\dimen\tw@dp\count@ \fi
19481             \mc@col@status@write
19482             \box\count@
19483             \hss{\columnseprulecolor\vrule
19484                 \@width\columnseprule}\hss}%
19485     \ifdimdp\mult@rightbox>\dimen\tw@
19486         \global\dimen\tw@dp\mult@rightbox \fi
19487     \mc@lastcol@status@write
19488     \box\mult@rightbox
19489 }
19490
19491 \def\RTL@column@boxes{%
19492     \process@cols\mult@firstbox{%
19493         \hskip\hsize
19494         \hss{\columnseprulecolor\vrule
19495             \@width\columnseprule}\hss
19496     }%
19497     \hskip\hsize
19498     \process@cols\mult@firstbox{%
19499         \ifdimdp\count@>\dimen\tw@
19500             \global\dimen\tw@dp\count@ \fi
19501         \hskip-\hsize
19502         \mc@col@status@write
19503         \box\count@
19504         \hskip-\hsize
19505         \hskip-\columnsep
19506     }%
19507     \ifdimdp\mult@rightbox>\dimen\tw@
19508         \global\dimen\tw@dp\mult@rightbox \fi
19509     \hskip-\hsize
19510     \mc@lastcol@status@write
19511     \box\mult@rightbox
19512     \hskip-\hsize
19513     \hskip\full@width
19514 }
19515
19516 \newcommand\RTLmulticolcolumns

```



```

19517     {\let\ bidi@multicol@align@columns
19518         \RTL@column@boxes}
19519 \newcommand\LTRmulticol@columns
19520     {\let\ bidi@multicol@align@columns
19521         \LTR@column@boxes}
19522 \newcommand\ bidi@multicol@align@columns
19523     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19524 \ bidi@AtEndPreamble{%
19525     \if@ bidi@csdef{footinsv@1}{%
19526         \def\footnoterule{\kern-3\p@
19527             \hrule \@width \textwidth \kern 2.6\p@}%
19528     }{%}
19529 }
19530 \def\multicols#1{\col@number#1\relax
19531     \ifnum\col@number<\tw@
19532         \PackageWarning{multicol}%
19533             {Using ` \number\col@number '
19534             columns doesn't seem a good idea.^~J
19535             I therefore use two columns instead}%
19536         \col@number\tw@ \fi
19537     \ifnum\col@number>20
19538         \PackageError{multicol}%
19539             {Too many columns}%
19540             {Current implementation doesn't
19541             support more than 20 columns.%
19542             \MessageBreak
19543             I therefore use 20 columns instead}%
19544         \col@number20 \fi
19545     \ifx\@footnotetext\mult@footnotetext
19546     \else
19547         \let\orig@footnotetext\@footnotetext
19548         \let\@footnotetext\mult@footnotetext
19549     \fi
19550     \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19551     \else
19552         \let\orig@LTRfootnotetext\@LTRfootnotetext
19553         \let\@LTRfootnotetext\mult@LTRfootnotetext
19554     \fi
19555     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19556     \else
19557         \let\orig@RTLfootnotetext\@RTLfootnotetext
19558         \let\@RTLfootnotetext\mult@RTLfootnotetext
19559     \fi
19560     \@ifnextchar[\mult@cols{\mult@cols[]}]
19561 \long\def\mult@footnotetext#1{\begingroup
19562     \hsize\textwidth
19563     \columnwidth\textwidth
19564     \orig@footnotetext{#1}\endgroup}
19565 \long\def\mult@LTRfootnotetext#1{\begingroup
19566     \hsize\textwidth
19567     \columnwidth\textwidth
19568     \orig@LTRfootnotetext{#1}\endgroup}
19569 \long\def\mult@RTLfootnotetext#1{\begingroup
19570     \hsize\textwidth

```



```

19571         \columnwidth\textwidth
19572         \orig@RTLfootnotetext{#1}\endgroup}
19573 \def\right@footnoterule{%
19574   \kern-3\p@
19575   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19576   \kern2.6\p@}
19577 \def\textwidth@footnoterule{\kern-3\p@
19578   \hrule \@width \textwidth \kern 2.6\p@}
19579 \def\bidileave@mult@copyins{%
19580   \advance\dimen@-\skip\@bidi@copyins@
19581   \advance\dimen@-\ht\@bidi@copyins@
19582 }
19583
19584 \bidi@AtEndPreamble{%
19585   \if@bidi@csundef{footinsv@1}{%
19586     \bidi@patchcmd{\multi@column@out}{%
19587       \ifvbox \@kludgeins
19588     }{%
19589       \ifvoid\@bidi@copyins@ \else
19590         \bidileave@mult@copyins
19591       \fi
19592       \ifvbox \@kludgeins
19593     }{}{}%
19594   }{}%
19595 }
19596
19597

```

119 File multienum-xetex-bidi.def

```

19598 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19599 \renewcommand{\itemx}[1]{\parbox[t]%
19600 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19601 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19602 \renewcommand{\itemxx}[2]{\parbox[t]%
19603 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19604 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19605 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19606 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19607 \renewcommand{\itemxxx}[3]{\parbox[t]%
19608 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19609 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19610 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
19611 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19612 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19613 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19614 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19615 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19616 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19617 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19618 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19619 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19620 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19621 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

19622 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19623 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
19624 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19625 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
19626 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19627 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
19628 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19629 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
19630 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19631 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
19632 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19633 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
19634 \renewcommand{\itemxox}[2]{\parbox[t]{%
19635 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19636 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19637 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19638 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19639 \renewcommand{\itemxox}[2]{\parbox[t]{%
19640 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19641 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19642 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19643 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19644 \renewcommand{\itemxox}[3]{\parbox[t]{%
19645 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19646 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19647 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19648 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19649 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19650 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19651 \renewcommand{\itemxox}[3]{\parbox[t]{%
19652 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19653 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19654 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19655 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19656 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19657 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19658 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19659 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19660 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19661 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19662 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19663 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19664 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

120 File natbib-xetex-bidi.def

```

19665 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19666 \renewenvironment{thebibliography}[1]{%
19667 \bibsection
19668 \parindent\z@
19669 \bibpreamble
19670 \bibfont
19671 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
19672 \bidi@thebibliography@font@hook%

```




```

19673 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19674 \ifNAT@openbib
19675   \renewcommand\newblock{\par}%
19676 \else
19677   \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19678 \fi
19679 \sloppy\clubpenalty4000\widowpenalty4000
19680 \sfcode`\.\@m
19681 \let\NAT@bibitem@first@sw\@firstoftwo
19682   \let\citeN\cite \let\shortcite\cite
19683   \let\citeasnoun\cite
19684 }{%
19685 \bibitem@fin
19686 \bibpostamble
19687 \def\@noitemerr{%
19688 \PackageWarning{natbib}{Empty `thebibliography' environment}%
19689 }%
19690 \endlist
19691 \bibcleanup
19692 }%

```

121 File newfloat-xetex-bidi.def

```

19693 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
19694 \renewcommand*\newfloat@setwithin[2]{%
19695   \ifcsname c@chapter\endcsname
19696     \@removefromreset{#1}{chapter}%
19697   \fi
19698   \@removefromreset{#1}{section}%
19699   \edef\@tempa{#2}%
19700   \ifx\@tempa\@empty
19701     \def\@tempa{none}%
19702   \fi
19703   \def\@tempb{none}%
19704   \ifx\@tempa\@tempb
19705     \ifcsname c@chapter\endcsname
19706       \@chapterlistsgap@off{#1}%
19707     \fi
19708     \newfloat@@setwithin{#1}{\@tempa}%
19709 \else
19710   \def\@tempb{chapter}%
19711   \ifx\@tempa\@tempb
19712     \@addtoreset{#1}{chapter}%
19713     \@chapterlistsgap@on{#1}%
19714     \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
19715   \else
19716     \def\@tempb{section}%
19717     \ifx\@tempa\@tempb
19718       \@addtoreset{#1}{section}%
19719       \ifcsname c@chapter\endcsname
19720         \@addtoreset{#1}{chapter}%
19721         \@chapterlistsgap@on{#1}%
19722       \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19723     \else

```



```

19724         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection}
19725         \fi
19726     \else
19727         \newfloat@Error{Invalid value `#2' for option `within'}%
19728     \fi
19729 \fi
19730 \fi}

```

122 File nicematrix-xetex-bidi.def

```

19731 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
19732 \ExplSyntaxOn
19733 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19734   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19735   \@tabarray
19736 }{}{}
19737 \ExplSyntaxOff
19738

```

123 File ntheorem-xetex-bidi.def

```

19739 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
19740 \gdef\@thm#1#2#3{%
19741   \if@thmmarks
19742     \stepcounter{end\InTheoType ctr}%
19743   \fi
19744   \renewcommand{\InTheoType}{#1}%
19745   \if@thmmarks
19746     \stepcounter{curr#1ctr}%
19747     \setcounter{end#1ctr}{0}%
19748   \fi
19749   \refstepcounter{#2}%
19750   \theorem@prework
19751   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19752   \ifvmode \advance\thm@topsepadd\partopsep\fi
19753   \trivlist
19754   \@topsep \theorempreskipamount
19755   \@topsepadd \thm@topsepadd % used by \@endparenv
19756   \advance\linewidth -\theorem@indent
19757   \advance\@totalleftmargin \theorem@indent
19758   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19759   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

124 File ntheorem-hyper-xetex-bidi.def

```

19760 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hyper package]
19761 \gdef\@thm#1#2#3{%
19762   \if@thmmarks
19763     \stepcounter{end\InTheoType ctr}%
19764   \fi
19765   \renewcommand{\InTheoType}{#1}%
19766   \if@thmmarks
19767     \stepcounter{curr#1ctr}%
19768     \setcounter{end#1ctr}{0}%

```



```

19769 \fi
19770 \refstepcounter{#2}%
19771 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19772 \ifvmode \advance\thm@topsepadd\partopsep\fi
19773 \trivlist
19774 \@topsep \theorempreskipamount
19775 \@topsepadd \thm@topsepadd % used by \@endparenv
19776 \advance\linewidth -\theorem@indent
19777 \advance\@totalleftmargin \theorem@indent
19778 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19779 \@ifnextchar [\@ythem{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

125 File `overpic-xetex-bidi.def`

```

19780 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19781 \renewenvironment{overpic}[2] []{%
19782 \sbox{z@}{\includegraphics[#1]{#2}}%
19783 \settodepth{\@tempcnta}{\usebox{z@}}%
19784 \settoheight{\@tempcntb}{\usebox{z@}}%
19785 \advance\@tempcntb\@tempcnta%
19786 \settowidth{\@tempcnta}{\usebox{z@}}%
19787 \setlength{\@tempdima}{\unitlength}%
19788 \count@=z@\Gin@gridfalse\setkeys{Gin}{#1}%
19789 %
19790 \OVP@calc%
19791 %
19792 \begin{picture}(\@tempcnta,\@tempcntb)%
19793 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}%
19794 \ifGin@grid%
19795 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19796 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19797 \fi\fi%
19798 % reset the graphics parameter
19799 \let\Gin@outer@scalex\relax
19800 \let\Gin@outer@scaley\relax
19801 \let\Gin@angle\relax
19802 \let\Gin@ewidth\Gin@exclamation
19803 \let\Gin@eheight\Gin@ewidth
19804 \def\Gin@scalex{1}
19805 \let\Gin@scaley\Gin@exclamation
19806 }{%
19807 \if@RTL\ifGin@grid%
19808 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19809 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19810 \fi%
19811 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
19812 \end{picture}%
19813 }%

```

126 File `pdfbase-xetex-bidi.def`

```

19814 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19815 \ExplSyntaxOn
19816 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage

```



```

19817 \cs_set_nopar:Npn\@outputpage{
19818   \int_gincr:N\g_pbs_page_int
19819   \box_if_vertical:cTF{\@outputbox}{
19820     \bool_set_true:N\l_pbs_is_vertical_bool
19821   }{
19822     \bool_set_false:N\l_pbs_is_vertical_bool
19823   }
19824   \hbox_set:Nn\@outputbox{
19825     %begin of page
19826     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19827     \box_use_drop:N\@outputbox
19828     %end of page
19829     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19830   }
19831   \bool_if:NT\l_pbs_is_vertical_bool{
19832     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19833   }
19834   \pbs_outputpage_orig:
19835 }
19836 \ExplSyntaxOff

```

127 File pdfscape-xetex-bidi.def

```

19837 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape package]
19838 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19839   \if@RTL
19840     \PLS@Rotate{-90}%
19841   \else
19842     \PLS@Rotate{90}%
19843   \fi
19844 }{}{}

```

128 File pdfpages-xetex-bidi.def

```

19845 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package]
19846 \renewcommand*{\includepdf}[2] [] {%
19847   \begingroup
19848   \@RTLfalse
19849   \let\AM@threadname\relax
19850   \AM@split@options{pdfpages}{#1}%
19851   \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
19852   \expandafter\setkeys\AM@temp
19853   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
19854     \let\AM@currentdocname\relax
19855     \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
19856     \def\AM@pagecount{0}%
19857   }{%
19858     \AM@findfile{#2}%
19859     \if\AM@threadname\relax
19860       \def\AM@threadname{\AM@currentdocname}%
19861     \fi
19862   }%
19863   \ifAM@survey
19864     \def\AM@pagetemp{}%

```



```

19865 \@tempcnta=0
19866 \def\foo{%
19867   \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
19868     {\let\foo\relax}
19869     {\expandafter\ifx\expandafter\\AM@pagestemp\
19870       \edef\AM@pagestemp{%
19871         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
19872     \else
19873       \edef\AM@pagestemp{\AM@pagestemp,%
19874         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
19875     \fi
19876     \advance\@tempcnta 1\relax
19877   }%
19878   \foo
19879 }%
19880 \foo
19881 \expandafter\ifx\expandafter\\AM@pagestemp\
19882   \def\AM@pagestemp{1}%
19883 \fi
19884 \fi
19885 \ifAM@output
19886   \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
19887   \AM@output{#1}%
19888 \fi
19889 \AM@CheckAtEnd
19890 \endgroup
19891 \AM@ClearShipoutPicture
19892 }

```

129 File pgfcorescopes.code-xetex-bidi.def

```

19893 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19894 \def\pgfpicture{%
19895   \begingroup%
19896   \ifmode\else@RTLfalse\beginL\fi%
19897   \pgfpicturetrue%
19898   \global\advance\pgf@picture@serial@count by1\relax%
19899   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19900   \let\pgf@nodecallback=\pgfutil@gobble%
19901   \pgf@picmaxx=-16000pt\relax%
19902   \pgf@picminx=16000pt\relax%
19903   \pgf@picmaxy=-16000pt\relax%
19904   \pgf@picminy=16000pt\relax%
19905   \pgf@relevantforpicturesizetrue%
19906   \pgf@resetpathsizes%
19907   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19908 \def\endpgfpicture{%
19909   \ifpgfrememberpicturepositiononpage%
19910     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19911   \fi%
19912   % ok, now let's position the box
19913   \ifdim\pgf@picmaxx=-16000pt\relax%
19914     % empty picture. make size 0.
19915     \global\pgf@picmaxx=0pt\relax%

```



```

19916         \global\pgf@picminx=0pt\relax%
19917         \global\pgf@picmaxy=0pt\relax%
19918         \global\pgf@picminy=0pt\relax%
19919         \fi%
19920         % Shift baseline outside:
19921         \pgf@relevantforpicturesizefalse%
19922         \pgf@process{\pgf@baseline}%
19923         \xdef\pgf@shift@baseline{\the\pgf@y}%
19924         %
19925         \pgf@process{\pgf@trimleft}%
19926         \global\advance\pgf@x by-\pgf@picminx
19927         % prepare \hskip\pgf@trimleft@final.
19928         % note that \pgf@trimleft@final is also queried
19929         % by the pgf image externalization.
19930         \xdef\pgf@trimleft@final{-\the\pgf@x}%
19931         %
19932         \pgf@process{\pgf@trimright}%
19933         \global\advance\pgf@x by-\pgf@picmaxx
19934         % prepare \hskip\pgf@trimright@final.
19935         % note that \pgf@trimright@final is also queried
19936         % by the pgf image externalization.
19937         \xdef\pgf@trimright@final{\the\pgf@x}%
19938         %
19939         \pgf@remember@layerlist@globally
19940         \endgroup%
19941         \hss%
19942         \egroup%
19943         \pgf@restore@layerlist@from@global
19944         \pgf@insertlayers%
19945         \endgroup%
19946         \pgfsys@discardpath%
19947         \endgroup%
19948         \pgfsys@endscope%
19949         \pgfsys@endpicture%
19950         \endgroup%
19951         \hss
19952     \egroup%
19953     \pgfsys@typesetpicturebox\pgfpic%
19954     \ifmmode\else\endL\fi%
19955     \endgroup%
19956 }

```

130 File pgfsys.code-xetex-bidi.def

```

19957 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
19958 \def\pgfsys@shadingoutsidepgfpicture#1{%
19959     \beginL#1\endL%
19960 }
19961
19962

```

131 File picinpar-xetex-bidi.def

```

19963 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package

```



```

19964 \long\def\@makewincaption#1#2{%
19965   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19966   \ifdim\wd\@tempboxa>\picwd
19967     {\footnotesize{\bf #1:\enspace}{#2\par}}
19968   \else
19969     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19970   \fi}
19971 \def\endwindow{%
19972   \global\tcd=\tcdsav
19973   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19974   \vbadness=10000
19975   \splittopskip=0pt
19976 %
19977 % Typeset the lines above the window
19978 %
19979 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19980 \tcn=\tcd
19981 \loop\advance\tcn -1
19982 \setbox\fslice=\vsplit\holder to\baselineskip
19983 \prune\fslice\linewidth
19984 \topheight=0pt
19985 \ifnum\dp\fslice>\dp\wstrutbox
19986   \advance\topheight-\dp\fslice
19987   \advance\topheight\dp\wstrutbox
19988   \advance\topheight\ilg\fi
19989 \hbox to\linewidth{\box\fslice}
19990 \vskip-\topheight
19991 \ifdim\ht\holder>0pt\repeat
19992 \fi
19993 %
19994 % Now we build the boxes beside the window
19995 %
19996 \global\topheight=\tcl\baselineskip
19997 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19998   \global\topheight=\vpic
19999 \fi
20000 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
20001 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
20002 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
20003 \tcn=\tcl \na=0 \nb=0
20004 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20005 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
20006 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20007 \ifnum\na=0\ifnum\nb=0
20008   \setbox\waslice=\vbox to\vpic{\vss}
20009   \setbox\wbslice=\vbox to\vpic{\vss}
20010   \bl=1\br=1
20011   \vskip\ilg
20012 \fi\fi
20013 %
20014 % both sides
20015 %
20016 \ifnum\na>0 \ifnum\nb>0
20017 \loop\advance\nb -1

```



```

20018 \advance\na -1
20019 \if@RTL%
20020 \setbox\bslice=\vsplit\holder to\baselineskip
20021 \prune\bslice\rtside
20022 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20023 to\rtside{\box\bslice\hfil}}
20024 \setbox\aslice=\vsplit\holder to\baselineskip
20025 \prune\aslice\lftside
20026 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20027 to\lftside{\box\aslice\hfil}}
20028 \else%
20029 \setbox\aslice=\vsplit\holder to\baselineskip
20030 \prune\aslice\lftside
20031 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20032 to\lftside{\box\aslice\hfil}}
20033 \setbox\bslice=\vsplit\holder to\baselineskip
20034 \prune\bslice\rtside
20035 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20036 to\rtside{\box\bslice\hfil}}
20037 \fi%
20038 \ifnum\nb>0\repeat
20039 \fi\fi
20040 %
20041 % only text on the left side
20042 %
20043 \ifnum\na>0
20044   \loop\advance\na -1
20045   \setbox\aslice=\vsplit\holder to\baselineskip
20046   \prune\aslice\lftside
20047   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20048   to\lftside{\box\aslice\hfil}}
20049   \ifdim\ht\holder>0pt\repeat
20050 \fi
20051 %
20052 % only text on the right side
20053 %
20054 \ifnum\nb>0
20055   \loop\advance\nb -1
20056   \setbox\bslice=\vsplit\holder to\baselineskip
20057   \prune\bslice\rtside
20058   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20059   to\rtside{\box\bslice\hfil}}
20060   \ifdim\ht\holder>0pt\repeat
20061 \fi
20062 %
20063 % fixing the dimensions of the window part
20064 %
20065 \ifnum\bl=0\topheight=\ht\wbslice
20066 \else\ifnum\br=0\topheight=\ht\waslice
20067   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20068   \else\topheight=\ht\wbslice\fi\fi\fi
20069 %
20070 % ship out the window material to the main vertical list
20071 %

```




```

20072 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20073 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20074 \fi\fi\fi
20075 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20076 \ifnum\bl>0\box\waslice\hfill\fi%
20077 \vbox to\topheight{\hrule width\picwd heightOpt depthOpt\vskipOpt%
20078 \vfill\unvbox\picbox%
20079 \ifnum\picwd>0\vfill\fi%
20080 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20081 \unvbox>windowbox%
20082 \loop
20083 \setbox\bslice=\vsplit\rawtext to\baselineskip
20084 \prune\bslice\linewidth
20085 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfill}}
20086 \unvbox\wbslice
20087 \ifdim\ht\rawtext>Opt
20088 \repeat
20089 }% FINITO

```

132 File plain-xetex-bidi.def

```

20090 \def\TeXXeTOn{\TeXXeTstate=1 }
20091 \def\TeXXeTOff{\TeXXeTstate=0 }
20092 \TeXXeTOn
20093 \def\usebox#1{\leavevmode\copy #1\relax}
20094 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox#1\fi}
20095 \let\bidi@o@everypar=\everypar
20096 \newtoks\bidi@n@everypar
20097 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
20098 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
20099 \let\everypar=\bidi@n@everypar
20100 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20101 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20102 \protected\def\hboxR{\hbox\bgroup
20103 \everyhbox{%
20104 \aftergroup\egroup
20105 \everyhbox{}}%
20106 \beginR
20107 \@hboxRconstructtrue
20108 \bgroup
20109 \aftergroup\endR
20110 \aftergroup\egroup
20111 }\hbox}
20112 \protected\def\hboxL{\hbox\bgroup
20113 \everyhbox{%
20114 \aftergroup\egroup
20115 \everyhbox{}}%
20116 \beginL
20117 \@hboxRconstructfalse
20118 \bgroup
20119 \aftergroup\endL
20120 \aftergroup\egroup
20121 }\hbox}
20122 \protected\def\vboxR{\vbox\bgroup

```



```

20123 \everyvbox{%
20124 \aftergroup\egroup
20125 \everyvbox{}}%
20126 \@RTLtrue
20127 \bgroup
20128 \aftergroup\egroup
20129 }\vbox}
20130 \protected\def\vboxL{\vbox\bgroup
20131 \everyvbox{%
20132 \aftergroup\egroup
20133 \everyvbox{}}%
20134 \@RTLfalse
20135 \bgroup
20136 \aftergroup\egroup
20137 }\vbox}
20138 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20139 \def\endLTR{\par}
20140 \def\RTL{\par\@RTLtrue\@RTL@footnotettrue\hsize\linewidth\parshape\z@}
20141 \def\endRTL{\par}
20142 \def\setRTL{\@RTLtrue\@RTL@footnotettrue}
20143 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20144 \let\unsetRTL=\setLTR
20145 \let\unsetLTR=\setRTL
20146 \let\LR=\LRE
20147 \let\RL=\RLE
20148 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20149 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20150 \let\@ensure@RL=\@ensure@RTL
20151 \let\@ensure@LR=\@ensure@LTR
20152 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20153 \let\@ensure@maindir=\@ensure@dir
20154 \def\@RTL{RTL}
20155 \def\@LTR{LTR}
20156 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20157 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20158 \let\@TeX\TeX
20159 \def\TeX{\@ensure@LTR{\@TeX}}
20160 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20161 \dimen@=\dp\cc1v \unvbox\cc1v % open up \box255
20162 \ifvoid\footins\else % footnote info is present
20163 \vskip\skip\footins
20164 \footnoterule
20165 \unvbox\footins\fi
20166 \ifrggedbottom \kern-\dimen@ \vfil \fi
20167 \ifvoid\@bidi@copyins@
20168 \else
20169 \vskip\skip\@bidi@copyins@
20170 \unvbox\@bidi@copyins@
20171 \fi
20172 }
20173 \long\def\bidi@reflect@box#1{%
20174 \leavevmode
20175 \setbox\z@\hbox{#1}}%
20176 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:restore}

```



```

20177 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20178 }
20179 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20180 \hbox{\kern-.125em\ bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20181 \let\setRL=\setRTL
20182 \let\setLR=\setLTR
20183 \let\unsetRL=\setLTR
20184 \let\bidi@saved@eqno=\eqno
20185 \let\bidi@saved@leqno=\leqno
20186 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
20187 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
20188 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20189 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20190 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

133 File pstricks-xetex-bidi.def

```

20191 \ProvidesFile{pstricks-xetex-bidi.def}[2022/09/22 v0.6 bidi adaptations for pstricks package]
20192 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
20193 \def\endpspicture{%
20194 \ifshowgrid\ifnum\showgridp>0
20195 \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
20196 \pst@killglue
20197 % \global\pst@shift=\pst@shift% in fact of the following endgroup
20198 \endgroup
20199 \egroup
20200 \ifdim\wd\pst@hbox=\z@\else
20201 %\@pstrickserr{Extraneous space in the pspicture environment}%
20202 %\Type \space <return> \space to proceed.}%
20203 \fi
20204 \ht\pst@hbox=\pst@dimd
20205 \dp\pst@hbox=-\pst@dimb
20206 \setbox\pst@hbox=\hbox{%
20207 \kern-\pst@dima
20208 % Orig version -----
20209 %\ifx\pst@tempa\@empty\else
20210 %\advance\pst@dimd-\pst@dimb
20211 %\pst@dimd=\pst@tempa\pst@dimd
20212 %\advance\pst@dimd\pst@dimb
20213 %\lower\pst@dimd
20214 %\fi
20215 %----- end Orig
20216 \ifPst@shift@star\typeout{==pstricks== old behaviour of the shift option}% shift=*
20217 \advance\pst@dimd-\pst@dimb
20218 \pst@dimd=0.5\pst@dimd
20219 \else\pst@dimd-\pst@shift\fi
20220 \advance\pst@dimd\pst@dimb
20221 \lower\pst@dimd
20222 \box\pst@hbox
20223 \kern\pst@dimc}%
20224 \ifstar\setbox\pst@hbox=\hbox{\clipbox@{\z@}\fi
20225 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
20226 \fboxsep=0pt
20227 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi

```



```

20228 \ifmode\else\endL\fi
20229 \endgroup%
20230 \psset[pstricks]{shift=0}% reset value
20231 }
20232
20233 \bidi@patchcmd\@scalebox{%
20234 \special{x: bscale \pst@tempc \pst@tempd}%
20235 \hbox to \z@\box\pst@hbox\hss}%
20236 \special{x: escale}%
20237 }{%
20238 \if@RTL
20239 \special{x: escale}%
20240 \else
20241 \special{x: bscale \pst@tempc \pst@tempd}%
20242 \fi
20243 \hbox to \z@\box\pst@hbox\hss}%
20244 \if@RTL
20245 \special{x: bscale \pst@tempc \pst@tempd}%
20246 \else
20247 \special{x: escale}%
20248 \fi
20249 }{}{}
20250 \let\ps@@scalebox\@scalebox
20251

```

134 File quotchap-xetex-bidi.def

```

20252 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20253 \renewcommand{\qauthor}[1]{%
20254 \par\smallskip
20255 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
20256 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20257 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20258 {\chapnumfont
20259 \ifnum \c@secnumdepth >\m@ne%
20260 \if@mainmatter\thechapter%
20261 \fi\fi
20262 \par\nobreak}%
20263 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20264 \nobreak\chapterheadendvskip}}
20265 \renewcommand*{\@iprintcites}{%
20266 \vbox to \z@\{\leavevmode\copy\@quotebox\vss}
20267 \global\let\@printcites\relax}

```

135 File ragged2e-xetex-bidi.def

```

20268 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20269 \renewcommand{\Centering}{%
20270 \ifx\\\@raggedtwoe@savedcr
20271 \let\\\@centercr
20272 \fi
20273 \let\@gnewline\@raggedtwoe@gnewline
20274 \if@RTL\rightright\else\leftskip\fi\CenteringLeftskip
20275 \@rightskip\CenteringRightskip

```



```

20276 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20277 \parfillskip\CenteringParfillskip
20278 \parindent\CenteringParindent
20279 \@raggedtwo@spaceskiptrue
20280 \@raggedtwo@everyselectfont
20281 }
20282 \renewcommand{\RaggedLeft}{%
20283 \ifx\\ \@raggedtwo@savedcr
20284 \let\\ @centercr
20285 \fi
20286 \let@gnewline\@raggedtwo@gnewline
20287 \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
20288 \@rightskip\RaggedLeftRightskip
20289 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20290 \parfillskip\RaggedLeftParfillskip
20291 \parindent\RaggedLeftParindent
20292 \@raggedtwo@spaceskiptrue
20293 \@raggedtwo@everyselectfont
20294 }
20295 \renewcommand{\RaggedRight}{%
20296 \ifx\\ \@raggedtwo@savedcr
20297 \let\\ @centercr
20298 \fi
20299 \let@gnewline\@raggedtwo@gnewline
20300 \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
20301 \@rightskip\RaggedRightRightskip
20302 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20303 \parfillskip\RaggedRightParfillskip
20304 \parindent\RaggedRightParindent
20305 \@raggedtwo@spaceskiptrue
20306 \@raggedtwo@everyselectfont
20307 }
20308 \renewcommand{\justifying}{%
20309 \let\\ \@raggedtwo@savedcr
20310 \let@gnewline\@raggedtwo@saved@gnewline
20311 \if@RTL\rightskip\else\leftskip\fi\z@
20312 \@rightskip\z@
20313 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20314 \parfillskip\JustifyingParfillskip
20315 \parindent\JustifyingParindent
20316 \@raggedtwo@spaceskipfalse
20317 \@raggedtwo@everyselectfont
20318 }
20319 \def\@raggedtwo@raggedrightboxes@opt{%
20320 \renewcommand{\@arrayparboxrestore}{%
20321 \let\if@nobreak\iffalse
20322 \let\if@noskipsec\iffalse
20323 \let\par\@@par
20324 \let\-\@dischyph
20325 \let'\@acci\let\` \@accii\let\=\@acciii
20326 \parskip\z@skip
20327 \everypar{}%
20328 \linewidth\hsize
20329 \@totalleftmargin\z@

```



```

20330 \if@RTL
20331 \RaggedLeft
20332 \else
20333 \RaggedRight
20334 \fi
20335 \lineskip\normallineskip
20336 \baselineskip\normalbaselineskip
20337 \sloppy}%
20338 \let\@raggedtwoe@raggedrightboxes@opt\relax
20339 }
20340 \def\@raggedtwoe@document@opt{%
20341 \AtBeginDocument{\@raggedtwoe@abdhook}%
20342 \@raggedtwoe@raggedrightboxes@opt
20343 \@raggedtwoe@footmisctrue
20344 \let\@raggedtwoe@document@opt\relax
20345 }
20346 \def\@raggedtwoe@abdhook{%
20347 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20348 right to left documents and '\string\RaggedRight' for left
20349 to right documents}%
20350 \if@RTL
20351 \RaggedLeft
20352 \else
20353 \RaggedRight
20354 \fi
20355 \ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20356 \let\@raggedtwoe@abdhook\relax
20357 }
20358 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20359 \@raggedtwoe@raggedrightboxes@opt
20360 }{}
20361 \@ifpackagewith{ragged2e}{document}{%
20362 \@raggedtwoe@document@opt
20363 }{}
20364 \let\origin@RaggedLeft=\RaggedLeft
20365 \let\origin@RaggedRight=\RaggedRight
20366 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20367 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

136 File rapport1-xetex-bidi.def

```

20368 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20369 \renewenvironment{theindex}{%
20370 \if@twocolumn
20371 \@restonecolfalse
20372 \else
20373 \@restonecoltrue
20374 \fi
20375 \columnseprule \z@
20376 \columnsep 35\p@
20377 \twocolumn[\@makeschapterhead{\indexname}]%
20378 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20379 \thispagestyle{plain}\parindent\z@
20380 \parskip\z@ \@plus .3\p@\relax

```



```

20381 \let\item\@idxitem
20382 }{%
20383 \if@restonecol\onecolumn\else\clearpage\fi}
20384 \renewcommand*{\head@style}{%
20385   \interlinepenalty \@M
20386   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20387   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20388 \if@titlepage
20389 \renewenvironment{abstract}{%
20390   \titlepage
20391   \null\vfil
20392   \section*{\SectFont\abstractname}%
20393   \noindent\ignorespaces}
20394   {\par\vfil\null\endtitlepage}
20395 \else
20396 \renewenvironment{abstract}{%
20397   \if@twocolumn
20398     \section*{\abstractname}%
20399   \else
20400     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20401     \section*{\small\SectFont\abstractname}%
20402     \noindent\ignorespaces
20403     \fi}
20404   {\if@twocolumn\else\par\egroup\fi}
20405 \fi
20406 \renewcommand*\@regtocline[3]{%
20407   \ifnum #1>\c@tocdepth
20408   \else
20409     \vskip\z@\@plus.2\p@
20410     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20411     \if@RTL\rightskip\else\leftskip\fi\unitindent
20412     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20413     \parfillskip\z@
20414     \@tempdima\unitindent
20415     \parindent\z@
20416     \leavevmode
20417     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20418     \hskip 1em \nobreak{\slshape #3}\par
20419     }%
20420   \fi}
20421 \if@oldtoc
20422 \renewcommand*\l@part[2]{%
20423   \ifnum \c@tocdepth >-2\relax
20424     \addpenalty{-\@highpenalty}%
20425     \addvspace{2.25em \@plus\p@}%
20426     \begingroup
20427       \setlength\@tempdima{3em}%
20428       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20429       \parfillskip -\@pnumwidth
20430       {\leavevmode
20431         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20432         \nobreak
20433         \global\@nobreaktrue
20434         \everypar{\global\@nobreakfalse\everypar{}}%

```



```

20435 \endgroup
20436 \fi}
20437 \else
20438 \renewcommand*\l@part{%
20439 \ifnum \c@tocdepth >-2\relax
20440 \addpenalty{-\@highpenalty}%
20441 \addvspace{2.25em \@plus \p@}%
20442 \@regtocline{0}%
20443 \fi}
20444 \fi
20445 \if@oldtoc
20446 \renewcommand*\l@chapter[2]{%
20447 \addpenalty{-\@highpenalty}%
20448 \vskip 1.0em \@plus\p@
20449 \setlength\@tempdima{1.5em}%
20450 \beginingroup
20451 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20452 \parfillskip -\@pnumwidth
20453 \leavevmode \bfseries
20454 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20455 \hskip -\if@RTL\rightskip\else\leftskip\fi
20456 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20457 \penalty\@highpenalty
20458 \endgroup}
20459 \else
20460 \renewcommand*\l@chapter{\@regtocline{0}}
20461 \fi
20462 \renewcommand*\left@footnoterule{%
20463 \kern-3\p@
20464 \kern.5\baselineskip
20465 \hrule\@width\unitindent
20466 \kern.4\baselineskip
20467 }
20468 \renewcommand*\right@footnoterule{%
20469 \kern-3\p@
20470 \kern.5\baselineskip
20471 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20472 \kern.4\baselineskip}
20473 \renewenvironment{thebibliography}[1]
20474 {\chapter*{\bibname}%
20475 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20476 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20477 \bidi@thebibliography@font@hook%
20478 \list{\@biblabel{\@arabic\c@enumiv}}%
20479 {\settowidth\labelwidth{\@biblabel{#1}}%
20480 \leftmargin\labelwidth
20481 \advance\leftmargin\labelsep
20482 \@openbib@code
20483 \usecounter{enumiv}%
20484 \let\p@enumiv\@empty
20485 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20486 \sloppy\clubpenalty4000\widowpenalty4000%
20487 \sfcode`. \@m}
20488 {\def\@noitemerr

```




```

20489     {\@latex@warning{Empty `thebibliography' environment}}%
20490     \endlist}
20491 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20492 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20493 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20494 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20495 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20496 \renewcommand*\theequation{%
20497   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20498 \renewcommand*\thefigure{%
20499   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20500 \renewcommand*\thetable{%
20501   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20502 \if@titlepage
20503 \renewcommand*\TitleFont{\rmfamily}
20504 \renewcommand*\maketitle{%
20505   \begin{titlepage}%
20506     \let\footnotesize\small
20507     \let\right@footnoterule\relax
20508     \let\left@footnoterule\relax
20509     \let\textwidth@footnoterule\relax
20510     \let \footnote \thanks
20511     \long\def\@makefnmark##1{\parindent\z@
20512       \def\labelitemi{\textendash}\@revlabeltrue
20513       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20514     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20515     \if@compatibility\setcounter{page}{0}\fi
20516     \null\vfil
20517     \vskip 60\p@
20518     \begin{center}%
20519       \TitleFont
20520       {\LARGE \def\{\penalty -\@M}
20521         \if@allcaps
20522           \expandafter\uc@nothanks\@title\thanks\relax
20523         \else
20524           \@title
20525           \fi\par}%
20526       \vskip 3em%
20527       {\large
20528         \lineskip .75em \parindent\z@
20529         \begin{tabular}[t]{c}%
20530           \if@allcaps
20531             \expandafter\uc@author\nothanks\@author\and\relax
20532           \else
20533             \@author
20534           \fi
20535           \end{tabular}\par}%
20536       \vskip 1.5em%
20537       {\large
20538         \if@allcaps
20539           \uppercase\expandafter{\@date}%
20540         \else
20541           \@date
20542         \fi\par}%

```



```

20543     \end{center}\par
20544     \@thanks
20545     \vfil\null
20546 \end{titlepage}%
20547 \setcounter{footnote}{0}%
20548 \global\let\thanks\relax
20549 \global\let\maketitle\relax
20550 \global\let\@thanks\@empty
20551 \global\let\@author\@empty
20552 \global\let\@title\@empty
20553 \global\let\@date\@empty
20554 \global\let\title\relax
20555 \global\let\author\relax
20556 \global\let\date\relax
20557 \global\let\and\relax
20558 }
20559 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20560 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20561     \futurelet\@tempa\uc@ax}
20562 \def\uc@ax{%
20563     \ifx\@tempa\relax
20564     \else
20565         \\\andname \\\expandafter\uc@authornothanks
20566     \fi}
20567 \def\uc@tx{\ifx\@tempa\relax
20568     \else \expandafter\uc@ty \fi}
20569 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20570 \else
20571 \renewcommand*\maketitle{\par
20572     \begingroup
20573     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20574     \def\@makefnmark{\rlap{%
20575         \@textsuperscript{\normalfont\@thefnmark}}}%
20576     \long\def\@makefntext{\@xmakefntext{%
20577         \@textsuperscript{\normalfont\@thefnmark}}}%
20578     \if@twocolumn
20579         \ifnum \col@number=\@one
20580             \@maketitle
20581         \else
20582             \twocolumn[\@maketitle]%
20583         \fi
20584     \else
20585         \newpage
20586         \global\@topnum\z@
20587         \@maketitle
20588     \fi
20589     \thispagestyle{plain}\@thanks
20590 \endgroup
20591 \setcounter{footnote}{0}%
20592 \global\let\thanks\relax
20593 \global\let\maketitle\relax
20594 \global\let\@maketitle\relax
20595 \global\let\@thanks\@empty
20596 \global\let\@author\@empty

```



```

20597 \global\let\@title\@empty
20598 \global\let\@date\@empty
20599 \global\let\title\relax
20600 \global\let\author\relax
20601 \global\let\date\relax
20602 \global\let\and\relax
20603 }
20604 \def\@maketitle{%
20605 \newpage
20606 \null
20607 \vskip 2em%
20608 \begin{center}%
20609 \let \footnote \thanks
20610 {\LARGE \TitleFont \@title \par}%
20611 \vskip 1.5em%
20612 {\large \TitleFont
20613 \lineskip .5em%
20614 \begin{tabular}[t]{c}%
20615 \@author
20616 \end{tabular}\par}%
20617 \vskip 1em%
20618 {\large \TitleFont \@date}%
20619 \end{center}%
20620 \par
20621 \vskip 1.5em}
20622 \fi

```

137 File rapport3-xetex-bidi.def

```

20623 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20624 \renewenvironment{theindex}{%
20625 \if@twocolumn
20626 \@restonecolfalse
20627 \else
20628 \@restonecoltrue
20629 \fi
20630 \columnseprule \z@
20631 \columnsep 35\p@
20632 \twocolumn[\@makeschapterhead{\indexname}]%
20633 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20634 \thispagestyle{plain}\parindent\z@
20635 \parskip\z@ \@plus .3\p@\relax
20636 \let\item\@idxitem
20637 }{%
20638 \if@restonecol\onecolumn\else\clearpage\fi}
20639 \if@titlepage
20640 \renewcommand*\TitleFont{\rmfamily}
20641 \renewcommand*\maketitle{%
20642 \begin{titlepage}%
20643 \let\footnotesize\small
20644 \let\right@footnoterule\relax
20645 \let\left@footnoterule\relax
20646 \let\textwidth@footnoterule\relax
20647 \let \footnote \thanks

```



```

20648 \let \LTRfootnote \LTRthanks
20649 \let \RTLfootnote \RTLthanks
20650 \long\def\@makefntext##1{\parindent\z@
20651 \def\labelitemi{\textendash}\@revlabeltrue
20652 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20653 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20654 \if@compatibility\setcounter{page}{0}\fi
20655 \null\vfil
20656 \vskip 60\p@
20657 \begin{center}%
20658 \TitleFont
20659 {\LARGE \def\{\penalty -\@M}
20660 \if@allcaps
20661 \expandafter\uc@nothanks\@title\thanks\relax
20662 \else
20663 \@title
20664 \fi\par}%
20665 \vskip 3em%
20666 {\large
20667 \lineskip .75em \parindent\z@
20668 \begin{tabular}[t]{c}%
20669 \if@allcaps
20670 \expandafter\uc@authornothanks\@author\and\relax
20671 \else
20672 \@author
20673 \fi
20674 \end{tabular}\par}%
20675 \vskip 1.5em%
20676 {\large
20677 \if@allcaps
20678 \uppercase\expandafter{\@date}%
20679 \else
20680 \@date
20681 \fi\par}%
20682 \end{center}\par
20683 \@thanks
20684 \vfil\null
20685 \end{titlepage}%
20686 \setcounter{footnote}{0}%
20687 \global\let\thanks\relax
20688 \global\let\LTRthanks\relax
20689 \global\let\RTLthanks\relax
20690 \global\let\maketitle\relax
20691 \global\let\@thanks\@empty
20692 \global\let\@author\@empty
20693 \global\let\@title\@empty
20694 \global\let\@date\@empty
20695 \global\let\title\relax
20696 \global\let\author\relax
20697 \global\let\date\relax
20698 \global\let\and\relax
20699 }
20700 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20701 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax

```



```

20702     \futurelet \@tempa\uc@ax}
20703 \def \uc@ax{%
20704   \ifx \@tempa\relax
20705     \else
20706       \ \andname \ \expandafter\uc@authornothanks
20707     \fi}
20708 \def \uc@tx{\ \ifx \@tempa\relax
20709   \else \expandafter\uc@ty \fi}
20710 \def \uc@ty#1{\thanks{#1}\uc@nothanks}
20711 \else
20712 \renewcommand* \maketitle{\par
20713   \begingroup
20714     \renewcommand* \thefootnote{\@fnsymbol\c@footnote}%
20715     \def \@makefnmark{\rlap{%
20716       \@textsuperscript{\normalfont\@thefnmark}}}%
20717     \long\def \@makefntext{\@xmakefntext{%
20718       \@textsuperscript{\normalfont\@thefnmark}}}%
20719     \if@twocolumn
20720       \ifnum \col@number=\@ne
20721         \@maketitle
20722       \else
20723         \twocolumn[\@maketitle]%
20724       \fi
20725     \else
20726       \newpage
20727       \global\@topnum\z@
20728       \@maketitle
20729     \fi
20730     \thispagestyle{plain}\@thanks
20731   \endgroup
20732   \setcounter{footnote}{0}%
20733   \global\let \thanks\relax
20734   \global\let \LTRthanks\relax
20735   \global\let \RTLthanks\relax
20736   \global\let \maketitle\relax
20737   \global\let \@maketitle\relax
20738   \global\let \@thanks\@empty
20739   \global\let \author\@empty
20740   \global\let \title\@empty
20741   \global\let \date\@empty
20742   \global\let \title\relax
20743   \global\let \author\relax
20744   \global\let \date\relax
20745   \global\let \and\relax
20746 }
20747 \def \@maketitle{%
20748   \newpage
20749   \null
20750   \vskip 2em%
20751 \if@titlecentered
20752   \begin{center}%
20753     \let \footnote \thanks
20754     \let \LTRfootnote \LTRthanks
20755     \let \RTLfootnote \RTLthanks

```



```

20756     {\LARGE \TitleFont \@title \par}%
20757     \vskip 1.5em%
20758     {\large \TitleFont
20759       \lineskip .5em%
20760       \begin{tabular}[t]{c}%
20761         \@author
20762       \end{tabular}\par}%
20763     \vskip 1em%
20764     {\large \TitleFont \@date}%
20765     \end{center}%
20766   \else
20767     {\LARGE \TitleFont \headstyle \@title \par} \vskip 1.5em
20768     {\large \TitleFont \lineskip .5em \tabcolsep\z@
20769       \def\and{%% \begin{tabular} has already started
20770         \end{tabular}\hskip 1em plus .17fil
20771         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
20772         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
20773       \vskip 1em {\large \TitleFont \@date}
20774     \fi
20775     \par
20776     \vskip 1.5em}
20777   \fi
20778   \renewcommand*\@regtocline[3]{%
20779     \ifnum #1>\c@tocdepth
20780     \else
20781       \vskip\z@\@plus.2\p@
20782       {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20783         \if@RTL\righskip\else\leftskip\fi\unitindent
20784         \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20785         \parfillskip\z@
20786         \@tempdima\unitindent
20787         \parindent\z@
20788         \leavevmode
20789         \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20790         \hskip 1em \nobreak{\slshape #3}\par
20791       }%
20792     \fi}
20793   \if@oldtoc
20794   \renewcommand*\l@part[2]{%
20795     \ifnum \c@tocdepth >-2\relax
20796       \addpenalty{-\@highpenalty}%
20797       \addvspace{2.25em \@plus\p@}%
20798       \begingroup
20799         \setlength\@tempdima{3em}%
20800         \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20801         \parfillskip -\@pnumwidth
20802         {\leavevmode
20803           \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20804           \nobreak
20805           \global\@nobreaktrue
20806           \everypar{\global\@nobreakfalse\everypar{}}%
20807         \endgroup
20808       \fi}
20809   \else

```



```

20810 \renewcommand*\l@part{%
20811 \ifnum \c@tocdepth >-2\relax
20812 \addpenalty{-\@highpenalty}%
20813 \addvspace{2.25em \@plus \p@}%
20814 \@regtocline{0}%
20815 \fi}
20816 \fi
20817 \if@oldtoc
20818 \renewcommand*\l@chapter[2]{%
20819 \addpenalty{-\@highpenalty}%
20820 \vskip 1.0em \@plus\p@
20821 \setlength\@tempdima{1.5em}%
20822 \begingroup
20823 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20824 \parfillskip -\@pnumwidth
20825 \leavevmode \bfseries
20826 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20827 \hskip -\if@RTL\rightskip\else\leftskip\fi
20828 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20829 \penalty\@highpenalty
20830 \endgroup}
20831 \else
20832 \renewcommand*\l@chapter{\@regtocline{0}}
20833 \fi
20834 \renewcommand*\head@style{%
20835 \interlinepenalty \@M
20836 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20837 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel relax}
20838 \if@titlepage
20839 \renewenvironment{abstract}{%
20840 \titlepage
20841 \null\vfil
20842 \section*\SectFont\abstractname}%
20843 \noindent\ignorespaces}
20844 {\par\vfil\null\endtitlepage}
20845 \else
20846 \renewenvironment{abstract}{%
20847 \if@twocolumn
20848 \section*\abstractname}%
20849 \else
20850 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20851 \section*\small\SectFont\abstractname}%
20852 \noindent\ignorespaces
20853 \fi}
20854 {\if@twocolumn\else\par\egroup\fi}
20855 \fi
20856 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20857 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
20858 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
20859 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
20860 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
20861 \renewcommand*\thefigure{%
20862 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\cfigure}
20863 \renewcommand*\thetable{%

```



```

20864 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20865 \renewcommand*\theequation{%
20866 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@equation}
20867 \renewenvironment{thebibliography}[1]
20868   {\chapter*{\bibname}%
20869    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20870    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20871    \bidi@thebibliography@font@hook%
20872    \list{\@biblabel{\@arabic\c@enumiv}}%
20873      {\settowidth\labelwidth{\@biblabel{#1}}%
20874       \leftmargin\labelwidth
20875       \advance\leftmargin\labelsep
20876       \@openbib@code
20877       \usecounter{enumiv}}%
20878       \let\p@enumiv\@empty
20879       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20880   \sloppy\clubpenalty4000\widowpenalty4000%
20881   \sfcode\.\@m}
20882   {\def\@noitemerr
20883     {\@latex@warning{Empty `thebibliography' environment}}}%
20884   \endlist}
20885 \renewcommand*\left@footnoterule{%
20886 \kern-3\p@
20887 \kern.5\baselineskip
20888 \hrule\@width\unitindent
20889 \kern.4\baselineskip
20890 }
20891 \renewcommand*\right@footnoterule{%
20892 \kern-3\p@
20893 \kern.5\baselineskip
20894 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20895 \kern.4\baselineskip}
20896 \renewcommand*\head@style{%
20897 \interlinepenalty \@M
20898 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20899 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

138 File refrep-xetex-bidi.def

```

20900 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20901 \if@titlepage
20902 \renewcommand\maketitle{\begin{titlepage}%
20903 \let\footnotesize\small
20904 \let\right@footnoterule\relax
20905 \let\left@footnoterule\relax
20906 \let\textwidth@footnoterule\relax
20907 \let\footnote\thanks
20908 \let\LTRfootnote\LTRthanks
20909 \let\RTLfootnote\RTLthanks
20910 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20911 \def\@makefnmark%
20912   {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20913 \long\def\@makefntext##1{%
20914   \@setpar{\@par

```




```

20915         \@tempdima = \hspace
20916         \advance\@tempdima -1em
20917         \parshape \@ne 1em \@tempdima}%
20918     \par\parindent 1em \noindent
20919     \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20920 \null\vfil
20921 \vskip 60\p@
20922 \begin{center}%
20923     {\LARGE \@title \par}%
20924     \vskip 3em%
20925     {\large
20926     \lineskip .75em%
20927     \begin{tabular}[t]{c}%
20928         \@author
20929     \end{tabular}\par}%
20930     \vskip 1.5em%
20931     {\large \@date \par}%           % Set date in \large size.
20932 \end{center}\par
20933 \@thanks
20934 \vfil\null
20935 \end{titlepage}%
20936 \setcounter{footnote}{0}%
20937 \global\let\thanks\relax
20938 \global\let\LTRthanks\relax
20939 \global\let\RTLthanks\relax
20940 \global\let\maketitle\relax
20941 \global\let\@thanks\@empty
20942 \global\let\@author\@empty
20943 \global\let\@date\@empty
20944 \global\let\@title\@empty
20945 \global\let\title\relax
20946 \global\let\author\relax
20947 \global\let\date\relax
20948 \global\let\and\relax
20949 }
20950 \else
20951 \renewcommand\maketitle{\par
20952     \begingroup
20953     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20954     \def\@makefnmark%
20955         {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20956     \long\def\@makefntext##1{%
20957         \@setpar{\@par
20958             \@tempdima = \hspace
20959             \advance\@tempdima -1em
20960             \parshape \@ne 1em \@tempdima}%
20961         \par\parindent 1em \noindent
20962         \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20963     \if@twocolumn
20964         \ifnum \col@number=\@ne
20965             \@maketitle
20966         \else
20967             \twocolumn[\@maketitle]%
20968         \fi

```



```

20969     \else
20970     \newpage
20971     \global\@topnum\z@    % Prevents figures from going at top of page.
20972     \@maketitle
20973     \fi
20974     \thispagestyle{empty}\@thanks
20975     \endgroup
20976     \setcounter{footnote}{0}%
20977     \global\let\thanks\relax
20978     \global\let\LTRthanks\relax
20979     \global\let\RTLthanks\relax
20980     \global\let\maketitle\relax
20981     \global\let\@maketitle\relax
20982     \global\let\@thanks\@empty
20983     \global\let\@author\@empty
20984     \global\let\@date\@empty
20985     \global\let\@title\@empty
20986     \global\let\title\relax
20987     \global\let\author\relax
20988     \global\let\date\relax
20989     \global\let\and\relax
20990 }
20991 \def\@maketitle{%
20992     \newpage
20993     \null
20994     \longthickrule\vskip1.5em%
20995     \let \footnote \thanks
20996     \let \LTRfootnote \LTRthanks
20997     \let \RTLfootnote \RTLthanks
20998     {\secshape \parskip\z@ \parindent\z@
20999     \Large\bfseries \@title \par}%
21000     \vskip1.5em\longthickrule\vskip1.5em%
21001     {\normalsize
21002     \lineskip .5em%
21003     \begin{flushright}%
21004         {\slshape\@author\par}
21005         \vskip 1em%
21006         {\@date}%
21007     \end{flushright}\par}%
21008     \vskip 1.5em}
21009 \fi
21010 \renewcommand*\l@part[2]{%
21011     \ifnum \c@tocdepth >-2\relax
21012         \addpenalty{-\@highpenalty}%
21013         \addvspace{2.25em \@plus\p@}%
21014         \begingroup
21015             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21016             \parfillskip -\@pnumwidth
21017             {\leavevmode
21018             \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
21019             \nobreak
21020             \global\@nobreaktrue
21021             \everypar{\global\@nobreakfalse\everypar{}}%
21022         \endgroup

```



```

21023 \fi}
21024 \renewcommand*\l@chapter[2]{%
21025 \ifnum \c@tocdepth >\m@ne
21026 \addpenalty{-\@highpenalty}%
21027 \vskip 1.0em \plus\p@
21028 \setlength\@tempdima{1.5em}%
21029 \begingroup
21030 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21031 \parfillskip -\@pnumwidth
21032 \leavevmode \bfseries
21033 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21034 \hskip -\if@RTL\rightskip\else\leftskip\fi
21035 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21036 \penalty\@highpenalty
21037 \endgroup
21038 \fi}
21039 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21040 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21041 \hyphenpenalty=2000}
21042 \renewcommand\left@footnoterule{%
21043 \kern-3\p@
21044 \hrule\@width.4\columnwidth
21045 \kern 2.6\p@}
21046 \renewcommand\right@footnoterule{%
21047 \kern-3\p@
21048 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21049 \kern2.6\p@}
21050 \renewcommand\theequation
21051 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21052 \renewcommand\thefigure
21053 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21054 \renewcommand\thetable%
21055 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21056 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21057 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21058 \renewcommand\thesubsubsection {\thesubsubsection \@SepMark\@arabic\c@subsubsection}
21059 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21060 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21061 \renewenvironment{thebibliography}[1]
21062 {\chapter*\bibname
21063 \mkboth{\bibname}{\bibname}}%
21064 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21065 \bidi@thebibliography@font@hook%
21066 \list{\@biblabel{\@arabic\c@enumiv}}%
21067 {\settowidth\labelwidth{\@biblabel{#1}}%
21068 \leftmargin\labelwidth
21069 \advance\leftmargin\labelsep
21070 \openbib@code
21071 \usecounter{enumiv}}%
21072 \let\p@enumiv\@empty
21073 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21074 \sloppy
21075 \clubpenalty4000
21076 \@clubpenalty \clubpenalty

```



```

21077         \widowpenalty4000%
21078         \sfcode`\.=\@m}
21079     {\def\@noitemerr
21080         {\@latex@warning{Empty `thebibliography' environment}}}%
21081     \endlist}

```

139 File report-xetex-bidi.def

```

21082 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
21083 \renewenvironment{theindex}
21084     {\if@twocolumn
21085         \@restonecolfalse
21086         \else
21087             \@restonecoltrue
21088             \fi
21089         \columnseprule \z@
21090         \columnsep 35\p@
21091         \twocolumn[\@makeschapterhead{\indexname}]%
21092         \@mkboth{\MakeUppercase\indexname}%
21093                 {\MakeUppercase\indexname}%
21094         \thispagestyle{plain}\parindent\z@
21095         \parskip\z@ \@plus .3\p@\relax
21096         \let\item\@idxitem}
21097     {\if@restonecol\onecolumn\else\clearpage\fi}
21098 \if@titlepage
21099 \renewcommand\maketitle{\begin{titlepage}%
21100 \let\footnotesize\small
21101 \let\right@footnoterule\relax
21102 \let\left@footnoterule\relax
21103 \let\textwidth@footnoterule\relax
21104 \let \footnote \thanks
21105 \let \LTRfootnote \LTRthanks
21106 \let \RTLfootnote \RTLthanks
21107 \null\vfil
21108 \vskip 60\p@
21109 \begin{center}%
21110     {\LARGE \@title \par}%
21111     \vskip 3em%
21112     {\large
21113         \lineskip .75em%
21114         \begin{tabular}[t]{c}%
21115             \@author
21116         \end{tabular}\par}%
21117     \vskip 1.5em%
21118     {\large \@date \par}%           % Set date in \large size.
21119 \end{center}\par
21120 \@thanks
21121 \vfil\null
21122 \end{titlepage}%
21123 \setcounter{footnote}{0}%
21124 \global\let\thanks\relax
21125 \global\let\LTRthanks\relax
21126 \global\let\RTLthanks\relax
21127 \global\let\maketitle\relax

```



```

21128 \global\let\@thanks\@empty
21129 \global\let\@author\@empty
21130 \global\let\@date\@empty
21131 \global\let\@title\@empty
21132 \global\let\title\relax
21133 \global\let\author\relax
21134 \global\let\date\relax
21135 \global\let\and\relax
21136 }
21137 \else
21138 \renewcommand\maketitle{\par
21139 \begingroup
21140 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21141 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21142 \long\def\@makefntext##1{\parindent 1em\noindent
21143 \hb@xt@1.8em{%
21144 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21145 \if@twocolumn
21146 \ifnum \col@number=\@ne
21147 \@maketitle
21148 \else
21149 \twocolumn[\@maketitle]%
21150 \fi
21151 \else
21152 \newpage
21153 \global\@topnum\z@ % Prevents figures from going at top of page.
21154 \@maketitle
21155 \fi
21156 \thispagestyle{plain}\@thanks
21157 \endgroup
21158 \setcounter{footnote}{0}%
21159 \global\let\thanks\relax
21160 \global\let\LTRthanks\relax
21161 \global\let\RTLthanks\relax
21162 \global\let\maketitle\relax
21163 \global\let\@maketitle\relax
21164 \global\let\@thanks\@empty
21165 \global\let\@author\@empty
21166 \global\let\@date\@empty
21167 \global\let\@title\@empty
21168 \global\let\title\relax
21169 \global\let\author\relax
21170 \global\let\date\relax
21171 \global\let\and\relax
21172 }
21173 \def\@maketitle{%
21174 \newpage
21175 \null
21176 \vskip 2em%
21177 \begin{center}%
21178 \let \footnote \thanks
21179 \let \LTRfootnote \LTRthanks
21180 \let \RTLfootnote \RTLthanks
21181 {\LARGE \@title \par}%

```



```

21182 \vskip 1.5em%
21183 {\large
21184 \lineskip .5em%
21185 \begin{tabular}[t]{c}%
21186 \author
21187 \end{tabular}\par}%
21188 \vskip 1em%
21189 {\large \@date}%
21190 \end{center}%
21191 \par
21192 \vskip 1.5em}
21193 \fi
21194 \renewcommand*\l@part[2]{%
21195 \ifnum \c@tocdepth >-2\relax
21196 \addpenalty{-\@highpenalty}%
21197 \addvspace{2.25em \@plus\p}%
21198 \setlength\@tempdima{3em}%
21199 \begingroup
21200 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21201 \parfillskip -\@pnumwidth
21202 {\leavevmode
21203 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21204 \nobreak
21205 \global\@nobreaktrue
21206 \everypar{\global\@nobreakfalse\everypar{}}%
21207 \endgroup
21208 \fi}
21209 \renewcommand*\l@chapter[2]{%
21210 \ifnum \c@tocdepth >\m@ne
21211 \addpenalty{-\@highpenalty}%
21212 \vskip 1.0em \@plus\p@
21213 \setlength\@tempdima{1.5em}%
21214 \begingroup
21215 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21216 \parfillskip -\@pnumwidth
21217 \leavevmode \bfseries
21218 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
21219 \hskip -\if@RTL\rightskip\else\leftskip\fi
21220 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21221 \penalty\@highpenalty
21222 \endgroup
21223 \fi}
21224 \renewcommand\left@footnoterule{%
21225 \kern-3\p@
21226 \hrule\@width.4\columnwidth
21227 \kern2.6\p@}
21228 \renewcommand\right@footnoterule{%
21229 \kern-3\p@
21230 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21231 \kern2.6\p@}
21232 \renewcommand\theequation
21233 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21234 \renewcommand \thefigure
21235 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}

```



```

21236 \renewcommand \thetable
21237     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21238 \renewcommand \thechapter {\@arabic\c@chapter}
21239 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21240 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21241 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21242 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21243 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21244 \def\@makechapterhead#1{%
21245     \vspace*{50\p@}%
21246     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21247       \ifnum \c@secnumdepth >\m@ne
21248         \huge\bfseries \@chapapp\space \thechapter
21249         \par\nobreak
21250         \vskip 20\p@
21251       \fi
21252       \interlinepenalty\@M
21253       \Huge \bfseries #1\par\nobreak
21254       \vskip 40\p@
21255     }}
21256 \def\@makeschapterhead#1{%
21257     \vspace*{50\p@}%
21258     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21259       \normalfont
21260       \interlinepenalty\@M
21261       \Huge \bfseries #1\par\nobreak
21262       \vskip 40\p@
21263     }}
21264 \renewenvironment{thebibliography}[1]
21265     {\chapter*{\bibname}%
21266      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21267      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21268      \bidi\@thebibliography@font@hook%
21269      \list{\@biblabel{\@arabic\c@enumiv}}%
21270          {\settowidth\labelwidth{\@biblabel{#1}}%
21271           \leftmargin\labelwidth
21272           \advance\leftmargin\labelsep
21273           \@openbib@code
21274           \usecounter{enumiv}%
21275           \let\p@enumiv\@empty
21276           \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21277      \sloppy
21278      \clubpenalty4000
21279      \@clubpenalty \clubpenalty
21280      \widowpenalty4000%
21281      \sfcode\.\@m}
21282 {\def\@noitemerr
21283   {\@latex@warning{Empty `thebibliography' environment}}}%
21284 \endlist}

```

140 File rotating-xetex-bidi.def

```

21285 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21286 \def\end@rotfloat{%

```



```

21287 \end{minipage}\end{lrbox}%
21288 \stepcounter{r@tfl@t}%
21289 \rot@label{RF\ther@tfl@t}{\R@@page}%
21290 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21291 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21292 \rot@mess@toks\expandafter{\@tempa}
21293 \wd\rot@float@box\z@
21294 \ht\rot@float@box\z@
21295 \dp\rot@float@box\z@
21296 \vboxL to \textheight{%
21297 \setkeys{Grot}{units=360}%
21298 \if@rot@twoside
21299 \else
21300 \let\R@@page\rot@LR
21301 \fi
21302 \ifthenelse{\isodd{\R@@page}}{%
21303 \if@rot@twoside
21304 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21305 \fi
21306 \vfill
21307 @@line{%
21308 \hskip\rotFPtop
21309 \rotatebox{90}{\box\rot@float@box}%
21310 \hskip\rotFPbot
21311 }%
21312 }{%
21313 \if@rot@twoside
21314 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21315 \fi
21316 @@line{%
21317 \hskip\rotFPbot
21318 \rotatebox{-90}{\box\rot@float@box}%
21319 \hskip\rotFPtop
21320 }%
21321 \vfill
21322 }%
21323 \rot@message{\the\rot@mess@toks}
21324 }%
21325 \end@float
21326 }
21327 \let\endsidewaysfigure\end@rotfloat
21328 \let\endsidewaystable\end@rotfloat
21329 \def\end@rotdblfloat{%
21330 \end{minipage}\end{lrbox}%
21331 \stepcounter{r@tfl@t}%
21332 \rot@label{RF\ther@tfl@t}{\R@@page}%
21333 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21334 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21335 \rot@mess@toks\expandafter{\@tempa}
21336 \@tempdima\ht\rot@float@box
21337 \advance\@tempdima by \dp\rot@float@box
21338 \wd\rot@float@box\z@
21339 \ht\rot@float@box\z@
21340 \dp\rot@float@box\z@

```




```

21341 \vboxL to \textheight{%
21342   \setkeys{Grot}{units=360}%
21343   \if@rot@twoside
21344   \else
21345     \let\R@@page\rot@LR
21346   \fi
21347   \ifthenelse{\isodd{\R@@page}}{%
21348     \ifrot@messages
21349     \if@rot@twoside
21350     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21351 \fi
21352   \fi
21353   \vfill
21354   \@@line{%
21355     \hskip\rotFPtop
21356     \rotatebox{90}{\box\rot@float@box}%
21357     \hskip\rotFPbot
21358   }%
21359 }{%
21360   \ifrot@messages
21361   \if@rot@twoside
21362   \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21363 \fi
21364   \fi%
21365   \@@line{%
21366     \hskip\rotFPbot
21367     \rotatebox{-90}{\box\rot@float@box}%
21368     \hskip\rotFPtop
21369   }%
21370   \vfill
21371 }%
21372   \rot@message{\the\rot@mess@toks}%
21373 }%
21374 \end@dblfloat
21375 }
21376 \def\turn#1{%
21377   \Grot@setangle{#1}%
21378   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21379 \def\endturn{%
21380   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21381   \unskip\color@endbox
21382   \Grot@x\z@
21383   \Grot@y\z@
21384   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21385 }
21386 \def\rotate#1{%
21387   \Grot@setangle{#1}%
21388   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21389 \def\endrotate{%
21390   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21391   \unskip\color@endbox
21392   \Grot@x\z@
21393   \Grot@y\z@
21394   \wd0\z@\dp0\z@\ht0\z@

```



```

21395 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21396 }
21397 \def\turnbox#1#2{%
21398 \Grot@setangle{#1}%
21399 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21400 \Grot@x\z@\Grot@y\z@
21401 \wd0\z@\dp0\z@\ht0\z@
21402 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21403 }
21404 \def\sideways{%
21405 \Grot@setangle{90}%
21406 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21407 \def\endsideways{%
21408 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21409 \unskip\color@endbox
21410 \Grot@x\z@
21411 \Grot@y\z@
21412 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21413 }

```

141 File scartcl-xetex-bidi.def

```

21414 \ProvidesFile{scartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scartcl class f
21415 \newcommand{\scr@saved@LTRfootnotetext}{}
21416 \newcommand{\scr@saved@RTLfootnotetext}{}
21417 \let\scr@saved@footnotetext\@footnotetext
21418 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21419 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21420 \renewcommand{\@footnotetext}[1]{%
21421 \scr@saved@footnotetext{#1}%
21422 \csname FN@mfp@prepare\endcsname
21423 }
21424 \renewcommand{\@LTRfootnotetext}[1]{%
21425 \scr@saved@LTRfootnotetext{#1}%
21426 \csname FN@mfp@prepare\endcsname
21427 }
21428 \renewcommand{\@RTLfootnotetext}[1]{%
21429 \scr@saved@RTLfootnotetext{#1}%
21430 \csname FN@mfp@prepare\endcsname
21431 }
21432 \renewcommand\deffootnote[4][1]{%
21433 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21434 \long\def\@makefntext##1{%
21435 \ExecuteDoHook{footnote/text/begin}%
21436 \raggedfootnote
21437 \if@RTL
21438 \rightskip
21439 \else
21440 \leftskip
21441 \fi
21442 #2
21443 \l@addto@macro\@trivlist{%
21444 \ifnum\@listdepth=\@ne
21445 \if@RTL

```



```

21446         \advance\rightmargin #2\relax
21447     \else
21448         \advance\leftmargin #2\relax
21449     \fi
21450 \fi
21451 }%
21452 \parindent #3\noindent
21453 \IfArgIsEmpty{#1}{-}{%
21454     \hskip \dimexpr #1-#2\relax
21455 }%
21456 \ftn@font\hbox to \z@\{hss\@makefnmark\}##1%
21457 \ExecuteDoHook{footnote/text/end}%
21458 }%
21459 \else
21460 \ClassInfo{\KOMAClassName}{%
21461     Using old \string\@makefnmark\space due to compatibility
21462     level\MessageBreak
21463     less than 3.22}%
21464 \long\def\@makefnmark##1{%
21465     \setlength{\@tempdimc}{#3}%
21466     \def\@tempa{#1}\ifx\@tempa\@empty
21467         \@setpar{\@par
21468             \@tempdima = \hspace
21469             \addtolength{\@tempdima}{-#2}%
21470             \if@RTL
21471                 \parshape \@ne \z@ \@tempdima
21472             \else
21473                 \parshape \@ne #2 \@tempdima
21474             \fi}%
21475     \else
21476         \addtolength{\@tempdimc}{#2}%
21477         \addtolength{\@tempdimc}{-#1}%
21478         \@setpar{\@par
21479             \@tempdima = \hspace
21480             \addtolength{\@tempdima}{-#1}%
21481             \@tempdimb = \hspace
21482             \addtolength{\@tempdimb}{-#2}%
21483             \if@RTL
21484                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21485             \else
21486                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21487             \fi
21488         }%
21489     \fi
21490 \par
21491 \parindent\@tempdimc\noindent
21492 \ftn@font\hbox to \z@\{hss\@makefnmark\}##1%
21493 }%
21494 \fi
21495 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21496 }
21497 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21498 \renewcommand*\left@footnoterule{%
21499     \normalsize\ftn@rule@test@values

```



```

21500 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21501 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21502 {\usekomafont{footnoterule}{%
21503   \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21504 \kern 2.6\p@}
21505 \renewcommand*\right@footnoterule{%
21506   \normalsize\ftn@rule@test@values
21507   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21508   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21509   {\usekomafont{footnoterule}{%
21510     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21511     \kern 2.6\p@}
21512   \renewcommand*\maketitle[1][1]{%
21513     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21514     \else
21515       \def\and{%
21516         \end{tabular}%
21517         \hskip 1em \@plus.17fil%
21518         \begin{tabular}[t]{c}%
21519       }%
21520     \fi
21521     \if@titlepage
21522       \begin{titlepage}
21523         \setcounter{page}{%
21524           #1%
21525         }%
21526       \if@titlepageiscoverpage
21527         \edef\titlepage@restore{%
21528           \noexpand\endgroup
21529           \noexpand\global\noexpand\@colht\the\@colht
21530           \noexpand\global\noexpand\@colroom\the\@colroom
21531           \noexpand\global\vsizethe\vsizethe
21532           \noexpand\global\noexpand\@titlepageiscoverpagefalse
21533           \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21534         }%
21535         \begingroup
21536         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21537         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21538         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21539         \textwidth=\dimexpr
21540         \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21541         \textheight=\dimexpr
21542         \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21543         \headheight=0pt
21544         \headsep=0pt
21545         \footskip=\baselineskip
21546         \@colht=\textheight
21547         \@colroom=\textheight
21548         \vsizethe=\textheight
21549         \columnwidth=\textwidth
21550         \hsizethe=\columnwidth
21551         \linewidth=\hsizethe
21552       \else
21553         \let\titlepage@restore\relax

```



```

21554 \fi
21555 \let\footnotesize\small
21556 \let\right@footnoterule\relax
21557 \let\left@footnoterule\relax
21558 \let\textwidth@footnoterule\relax
21559 \let\footnote\thanks
21560 \let\LTRfootnote\LTRthanks
21561 \let\RTLfootnote\RTLthanks
21562 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21563 \let\@oldmakefnmark\@makefnmark
21564 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21565 \ifx\@extratitle\@empty
21566 \ifx\@frontispiece\@empty
21567 \else
21568 \if@twoside\mbox{}\next@tpage\fi
21569 \noindent\@frontispiece\next@tdpage
21570 \fi
21571 \else
21572 \noindent\@extratitle
21573 \ifx\@frontispiece\@empty
21574 \else
21575 \next@tpage
21576 \noindent\@frontispiece
21577 \fi
21578 \next@tdpage
21579 \fi
21580 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21581 \ifx\@titlehead\@empty \else
21582 \begin{minipage}[t]{\textwidth}%
21583 \usekomafont{titlehead}{\@titlehead\par}%
21584 \end{minipage}\par
21585 \fi
21586 \null\vfill
21587 \begin{center}
21588 \ifx\@subject\@empty \else
21589 {\usekomafont{subject}{\@subject\par}}%
21590 \vskip 3em
21591 \fi
21592 {\usekomafont{title}{\huge \@title\par}}%
21593 \vskip 1em
21594 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21595 \vskip 2em
21596 {%
21597 \usekomafont{author}{%
21598 \lineskip 0.75em
21599 \begin{tabular}[t]{c}
21600 \@author
21601 \end{tabular}\par
21602 }%
21603 }%
21604 \vskip 1.5em
21605 {\usekomafont{date}{\@date \par}}%
21606 \vskip \z@ \@plus3fill
21607 {\usekomafont{publishers}{\@publishers \par}}%

```



```

21608     \vskip 3em
21609     \end{center}\par
21610     \@thanks\global\let\@thanks\@empty
21611     \vfill\null
21612     \if@twoside
21613         \@tempwatrue
21614         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21615         \else
21616             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21617                 \@tempwafalse
21618             \fi\fi
21619         \fi
21620         \if@tempswa
21621             \next@tpage
21622             \begin{minipage}[t]{\textwidth}
21623                 \@uppertitleback
21624             \end{minipage}\par
21625             \vfill
21626             \begin{minipage}[b]{\textwidth}
21627                 \@lowertitleback
21628             \end{minipage}\par
21629             \@thanks\global\let\@thanks\@empty
21630         \fi
21631     \else
21632         \ifx\@uppertitleback\@empty\else
21633             \ClassWarning{\KOMAClassName}{%
21634                 non empty \string\uppertitleback\space ignored
21635                 by \string\maketitle\MessageBreak
21636                 in `twoside=false' mode%
21637             }%
21638         \fi
21639         \ifx\@lowertitleback\@empty\else
21640             \ClassWarning{\KOMAClassName}{%
21641                 non empty \string\lowertitleback\space ignored
21642                 by \string\maketitle\MessageBreak
21643                 in `twoside=false' mode%
21644             }%
21645         \fi
21646     \fi
21647     \ifx\@dedication\@empty
21648     \else
21649         \next@tdpage\null\vfill
21650         {\centering\usekomafont{dedication}{\@dedication \par}}%
21651         \vskip \z@ \@plus3fill
21652         \@thanks\global\let\@thanks\@empty
21653         \cleardoubleemptypage
21654     \fi
21655     \ifx\titlename\@empty\relax\else\clearpage\titlename\relax\fi
21656 \end{titlepage}
21657 \else
21658     \par
21659     \@tempcnta=%
21660     #1%
21661     \relax\ifnum\@tempcnta=1\else

```



```

21662     \ClassWarning{\KOMAClassName}{%
21663         Optional argument of \string\maketitle\space ignored\MessageBreak
21664         in `titlepage=false' mode%
21665     }%
21666 \fi
21667 \ifx\@uppertitleback\@empty\else
21668     \ClassWarning{\KOMAClassName}{%
21669         non empty \string\uppertitleback\space ignored
21670         by \string\maketitle\MessageBreak
21671         in `titlepage=false' mode%
21672     }%
21673 \fi
21674 \ifx\@lowertitleback\@empty\else
21675     \ClassWarning{\KOMAClassName}{%
21676         non empty \string\lowertitleback\space ignored
21677         by \string\maketitle\MessageBreak
21678         in `titlepage=false' mode%
21679     }%
21680 \fi
21681 \beginngroup
21682     \let\titlepage@restore\relax
21683     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21684     \let\@oldmakefnmark\@makefnmark
21685     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21686     \next@tdpage
21687     \if@twocolumn
21688         \ifnum \col@number=\@one
21689             \ifx\@extratitle\@empty
21690                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21691             \else
21692                 \@makeextratitle
21693             \fi
21694             \ifx\@frontispiece\@empty
21695                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21696             \else
21697                 \next@tpage
21698                 \@makefrontispiece
21699                 \next@tdpage
21700             \fi
21701             \@maketitle
21702         \else
21703             \ifx\@extratitle\@empty
21704                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21705             \else
21706                 \twocolumn[\@makeextratitle]%
21707             \fi
21708             \ifx\@frontispiece\@empty
21709                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21710             \else
21711                 \next@tpage
21712                 \twocolumn[\@makefrontispiece]%
21713             \fi
21714             \fi
21715             \twocolumn[\@maketitle]%

```



```

21716     \fi
21717   \else
21718     \ifx\@extratitle\@empty
21719       \ifx\@frontispiece\@empty\else \mbox{}\fi
21720     \else
21721       \@makeextratitle
21722     \fi
21723     \ifx\@frontispiece\@empty
21724       \ifx\@extratitle\@empty\else\next@tdpage\fi
21725     \else
21726       \next@tpage
21727       \@makefrontispiece
21728       \next@tdpage
21729     \fi
21730     \@maketitle
21731   \fi
21732   \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21733   \@thanks\global\let\@thanks\@empty
21734 \endgroup
21735 \fi
21736 \setcounter{footnote}{0}%
21737 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21738   \let\thanks\relax
21739   \let\LTRthanks\relax
21740   \let\RTLthanks\relax
21741   \let\maketitle\relax
21742   \let\@maketitle\relax
21743   \global\let\@thanks\@empty
21744   \global\let\@author\@empty
21745   \global\let\@date\@empty
21746   \global\let\@title\@empty
21747   \global\let\@subtitle\@empty
21748   \global\let\@extratitle\@empty
21749   \global\let\@frontispiece\@empty
21750   \global\let\@titlehead\@empty
21751   \global\let\@subject\@empty
21752   \global\let\@publishers\@empty
21753   \global\let\@uppertitleback\@empty
21754   \global\let\@lowertitleback\@empty
21755   \global\let\@dedication\@empty
21756   \global\let\author\relax
21757   \global\let\title\relax
21758   \global\let\extratitle\relax
21759   \global\let\titlehead\relax
21760   \global\let\subject\relax
21761   \global\let\publishers\relax
21762   \global\let\uppertitleback\relax
21763   \global\let\lowertitleback\relax
21764   \global\let\dedication\relax
21765   \global\let\date\relax
21766 \fi
21767 \global\let\and\relax
21768 }%
21769 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}

```




```

21770 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21771 \renewcommand*\autodot{\if@altsecnumformat@SepMark\fi}
21772 \renewcommand*\thesubsection{\thesection@SepMark@arabic@c@subsection}
21773 \renewcommand*\thesubsubsection{%
21774   \thesubsection@SepMark@arabic@c@subsubsection
21775 }
21776 \renewcommand*\theparagraph{\thesubsubsection@SepMark@arabic@c@paragraph}
21777 \renewcommand*\thesubparagraph{%
21778   \theparagraph@SepMark@arabic@c@subparagraph
21779 }
21780 \renewenvironment{thebibliography}[1]{%
21781   \if@bib@break@
21782     \bib@beginhook
21783   \else
21784     \bib@heading
21785     \ifx\bibpreamble\relax\else\ifx\bibpreamble\empty\else
21786       \noindent\bibpreamble\par\nobreak
21787     \fi\fi
21788     \bib@beginhook
21789     \bib@before@hook
21790   \fi
21791   \renewcommand{\BreakBibliography}[1]{%
21792     \@bib@break
21793     \end{thebibliography}%
21794     \begingroup ##1\endgroup
21795     \begin{thebibliography}#{1}
21796   }%
21797   \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
21798   \bidi@thebibliography@font@hook%
21799   \list{%
21800     \@biblabel{\@arabic@c@enumiv}%
21801   }{%
21802     \settowidth\labelwidth{\@biblabel{#1}}%
21803     \leftmargin\labelwidth
21804     \advance\leftmargin\labelsep
21805     \@openbib@code
21806     \if@bib@break@
21807       \edef\@tempa{%
21808         \noexpand\usecounter{enumiv}%
21809         \noexpand\setcounter{enumiv}{\the@c@enumiv}%
21810       }\@tempa
21811       \no@bib@break
21812     \else
21813       \usecounter{enumiv}%
21814     \fi
21815     \let\p@enumiv\@empty
21816     \renewcommand*\theenumiv{\@arabic@c@enumiv}%
21817   }%
21818   \sloppy\clubpenalty4000 \widowpenalty4000
21819   \sfcode`.=\@m
21820 }{%
21821   \if@bib@break@
21822     \def\@noitemerr{%
21823       \@latex@warning{%

```



```

21824     \string\BreakBibliography\space at begin of `thebibliography'
21825     environment\MessageBreak
21826     or following \string\BreakBibliography}%
21827   }%
21828 \else
21829   \def\@noitemerr{%
21830     \@latex@warning{%
21831       Empty `thebibliography' environment or
21832       \string\BreakBibliography\MessageBreak
21833       before end of `thebibliography' environment}%
21834   }%
21835 \fi
21836 \endlist
21837 \if@bib@break@
21838 \else
21839   \bib@after@hook
21840   \let\bib@before@hook\@empty
21841   \let\bib@after@hook\@empty
21842 \fi
21843 \bib@endhook
21844 }
21845 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21846 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21847 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21848 \renewcommand\marginline[1]{%
21849   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21850 }
21851 \renewcommand{\@makecaption}[3]{%
21852   \cap@margin
21853   \begingroup
21854     \ifonelinecaptions
21855       \def\stepcounter##1{\advance\value{##1}\@one}%
21856       \let\refstepcounter\stepcounter
21857       \let\label\@gobble
21858       \let\@footnotetext=\@gobble
21859       \let\@LTRfootnotetext=\@gobble
21860       \let\@RTLfootnotetext=\@gobble
21861       \let\hypertarget\@gobbletwo
21862       \edef\@xnewline{%
21863         \unexpanded{\ClassInfo{\KOMAClassName}}{%
21864           Workaround for not recommended usage of \string\\ or\MessageBreak
21865           \string\newline in caption text
21866         }%
21867         \hspace*{\linewidth}\hspace{1sp}%
21868       }%
21869       \unexpanded\expandafter{\@xnewline}%
21870     }%
21871     \edef\@xcentercr{%
21872       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21873         Workaround for not recommended usage of \string\\ or\MessageBreak
21874         \string\newline in caption text
21875       }%
21876       \hspace*{\linewidth}\hspace{1sp}%
21877     }%

```



```

21878     \unexpanded\expandafter{\@xcentercr}%
21879   }%
21880   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21881   \ifdim\@tempdima>\cap@width
21882     \aftergroup\scr@makemultilinecaption
21883   \else
21884     \aftergroup\scr@makesinglelinecaption
21885   \fi
21886   \else
21887     \aftergroup\scr@makemultilinecaption
21888   \fi
21889 \endgroup
21890 {#1}{#2}{#3}%
21891 }
21892 \renewcommand{\scr@makesinglelinecaption}[3]{%
21893   {%
21894     \usefontofkomafont{caption}{%
21895       \hb@xt@\hsize{%
21896         \cap@left
21897         \if@RTL
21898           \beginR
21899           \fi
21900         \scr@makesinglelinecaption{#1}{#2}{#3}%
21901         \if@RTL
21902           \endR
21903         \fi
21904         \cap@right
21905       }\par\kern\dp\strutbox%
21906     }%
21907   }\kern-\dp\strutbox
21908 }
21909 \renewcommand{\@makecaption}[2]{%
21910   \if@captionabove
21911     \vskip\belowcaptionskip
21912   \else
21913     \vskip\abovecaptionskip
21914   \fi
21915   \@makecaption\@firstofone{#1}{#2}%
21916   \if@captionabove
21917     \vskip\abovecaptionskip
21918   \else
21919     \vskip\belowcaptionskip
21920   \fi
21921 }
21922
21923 \renewcommand{\scr@makesinglelinecaption}[3]{%
21924   {\usekomafont{caption}{\strut\ignorespaces
21925     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21926     \ignorespaces #3\unskip}}%
21927 }
21928
21929 \renewcommand{\scr@makemultilinecaption}[3]{%
21930   {%
21931     \usefontofkomafont{caption}{%

```



```

21932 \hb@xt@\hsize{%
21933 \cap@left
21934 \vbox{\hsize\cap@width\linewidth\hsize
21935 \scr@ifundefinedorrelax{@capttype}{%
21936 \ClassWarning{\KOMAClassName}{%
21937 \string\caption' outside float.\MessageBreak
21938 Seems you are using \string\caption' outside a
21939 float.\MessageBreak
21940 Maybe you are using a package that uses
21941 \string\@makecaption'\MessageBreak
21942 without setting \string\@capttype' before.\MessageBreak
21943 Because I cannot detect the caption type, I'm using\MessageBreak
21944 the empty one.%
21945 }%
21946 \let\@capttype\@empty
21947 }{}%
21948 \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21949 \@nameuse{ragged\@capttype caption}%
21950 }%
21951 \ifdofullc@p
21952 \@hangfrom{%
21953 \strut
21954 \scr@smashdp{%
21955 #1{%
21956 \usekomafont{caption}{%
21957 \usekomafont{captionlabel}{#2\captionformat}%
21958 }%
21959 }%
21960 }%
21961 }%
21962 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21963 \else
21964 \ifdim\cap@indent<\z@
21965 \strut
21966 #1{%
21967 {\usekomafont{caption}{%
21968 \usekomafont{captionlabel}{#2\captionformat}%
21969 }%
21970 }\par}%
21971 \noindent{{\usekomafont{caption}{%
21972 \hspace*{-\cap@indent}\#3\scr@endstrut
21973 }}\par}%
21974 \else
21975 \if@capbreak
21976 \strut
21977 #1{%
21978 {\usekomafont{caption}{%
21979 \usekomafont{captionlabel}{#2\captionformat}%
21980 }%
21981 }\par}%
21982 \noindent\@hangfrom{\hspace*{\cap@indent}}%
21983 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21984 \else
21985 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%

```



```

21986         {%
21987         \hspace{-\cap@indent}%
21988         \scr@smashdp{%
21989         #1{\usekomafont{caption}{%
21990         \usekomafont{captionlabel}{#2\captionformat}%
21991         }%
21992         }%
21993         }%
21994         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21995         }%
21996         \fi
21997         \fi
21998         \fi
21999         }%
22000         \cap@right
22001     }\par\kern\dp\strutbox
22002 }%
22003 }\kern-\dp\strutbox
22004 }
22005
22006 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22007 \if@komalongtable
22008 \renewcommand{\LT@makecaption}[3]{%
22009 \noalign{%
22010 \if@captionabove
22011 \vskip\belowcaptionskip
22012 \else
22013 \vskip\abovecaptionskip
22014 \fi
22015 }%
22016 \LT@mcol\LT@cols c{%
22017 \hbox to\z@{\hss\parbox[t]\linewidth{%
22018 \def\@capttype{table}%
22019 \@makecaption{#1}{#2}{#3}%
22020 \endgraf
22021 \if@captionabove
22022 \vskip\abovecaptionskip
22023 \else
22024 \vskip\belowcaptionskip
22025 \fi
22026 }%
22027 \hss
22028 }%
22029 }%
22030 }%
22031 \renewcommand*{\scr@LT@array}{}%
22032 \let\scr@LT@array=\LT@array
22033 \renewcommand*{\LT@array}{%
22034 \let\scr@caption=\LT@caption
22035 \def\captionabove{\noalign{\global\@captionabovetrue}%
22036 \scr@caption}%
22037 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22038 \scr@caption}%
22039 \if@tablecaptionabove

```



```

22040         \let\LT@caption=\captionabove
22041     \else
22042         \let\LT@caption=\captionbelow
22043     \fi
22044     \scr@LT@array
22045 }%
22046 \ClassInfo{\KOMAClassName}{%
22047     longtable captions redefined%
22048 }%
22049 \fi
22050 }
22051
22052 \CloneTOCEntryStyle{tocline}{part}
22053 \TOCEntryStyleStartInitCode{part}{%
22054     \expandafter\renewcommand%
22055     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22056     \expandafter\renewcommand%
22057     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22058     \expandafter\renewcommand%
22059     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22060         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22061     \expandafter\renewcommand\expandafter*%
22062     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22063 }
22064
22065 \CloneTOCEntryStyle{tocline}{section}
22066 \TOCEntryStyleStartInitCode{section}{%
22067     \expandafter\renewcommand%
22068     \csname scr@tso@#1@linefill\endcsname{%
22069         \if@sectionentrywithdots
22070             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22071         \else
22072             \hfill
22073         \fi
22074     }%
22075     \expandafter\renewcommand%
22076     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22077     \expandafter\renewcommand%
22078     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22079     \expandafter\renewcommand\expandafter*%
22080     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22081 }
22082
22083 \CloneTOCEntryStyle{tocline}{subsection}
22084 \TOCEntryStyleStartInitCode{subsection}{%
22085     \expandafter\renewcommand%
22086     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22087     \expandafter\renewcommand%
22088     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22089         {\normalfont\normalcolor ##1}}%
22090 }
22091
22092 \CloneTOCEntryStyle{subsection}{default}
22093

```



```

22094 \DeclareSectionCommand[%
22095   style=section,%
22096   level=1,%
22097   indent=\z@,%
22098   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22099   afterskip=2.3ex \@plus .2ex,%
22100   tocstyle=section,%
22101   tocindent=0pt,%
22102   tocnumwidth=1.5em%
22103 ]{section}
22104 \DeclareSectionCommand[%
22105   style=part,%
22106   level=\z@,%
22107   tocstyle=part,%
22108   toplevel=\m@ne,%
22109   tocindent=\z@,%
22110   tocnumwidth=2em%
22111 ]{part}
22112 \DeclareSectionCommand[%
22113   style=section,%
22114   level=2,%
22115   indent=\z@,%
22116   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22117   afterskip=1.5ex \@plus .2ex,%
22118   tocstyle=subsection,%
22119   tocindent=1.5em,%
22120   tocnumwidth=2.3em%
22121 ]{subsection}
22122 \DeclareSectionCommand[%
22123   style=section,%
22124   level=3,%
22125   indent=\z@,%
22126   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22127   afterskip=1.5ex \@plus .2ex,%
22128   tocstyle=subsection,%
22129   tocindent=3.8em,%
22130   tocnumwidth=3.2em%
22131 ]{subsubsection}
22132 \DeclareSectionCommand[%
22133   style=section,%
22134   level=4,%
22135   indent=\z@,%
22136   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22137   afterskip=-1em,%
22138   tocstyle=subsection,%
22139   tocindentfollows=subsubsection,%
22140   tocindent=7.0em,%
22141   tocnumwidth=4.1em%
22142 ]{paragraph}
22143 \DeclareSectionCommand[%
22144   style=section,%
22145   level=5,%
22146   indent=\scr@parindent,%
22147   beforekip=3.25ex \@plus 1ex \@minus .2ex,%

```



```

22148 afterskip=-1em,%
22149 tocstyle=subsection,%
22150 tocindent=10em,%
22151 tocnumwidth=5em%
22152 ]{subparagraph}

```

142 File scrbook-xetex-bidi.def

```

22153 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22154 \newcommand{\scr@saved@LTRfootnotetext}{}
22155 \newcommand{\scr@saved@RTLfootnotetext}{}
22156 \let\scr@saved@footnotetext\@footnotetext
22157 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22158 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22159 \renewcommand{\@footnotetext}[1]{%
22160   \scr@saved@footnotetext{#1}%
22161   \csname FN@mf@prepare\endcsname
22162 }
22163 \renewcommand{\@LTRfootnotetext}[1]{%
22164   \scr@saved@LTRfootnotetext{#1}%
22165   \csname FN@mf@prepare\endcsname
22166 }
22167 \renewcommand{\@RTLfootnotetext}[1]{%
22168   \scr@saved@RTLfootnotetext{#1}%
22169   \csname FN@mf@prepare\endcsname
22170 }
22171 \renewcommand\deffootnote[4][]{%
22172   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22173     \long\def\@makefnmark##1{%
22174       \ExecuteDoHook{footnote/text/begin}%
22175       \raggedfootnote
22176       \if@RTL
22177         \rightskip
22178       \else
22179         \leftskip
22180       \fi
22181       #2
22182       \l@addto@macro\@trivlist{%
22183         \ifnum\@listdepth=\@ne\advance
22184           \if@RTL
22185             \rightmargin #2\relax
22186           \else
22187             \leftmargin #2\relax
22188           \fi
22189         \fi
22190       }%
22191       \parindent #3\noindent
22192       \IfArgIsEmpty{#1}{-}{%
22193         \hskip \dimexpr #1-#2\relax
22194       }%
22195       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22196       \ExecuteDoHook{footnote/text/end}%
22197     }%
22198   \else

```




```

22199 \ClassInfo{\KOMAClassName}{%
22200 Using old \string\@makefnmark\space due to compatibility
22201 level\MessageBreak
22202 less than 3.22}%
22203 \long\def\@makefnmark##1{%
22204 \setlength{\@tempdimc}{#3}%
22205 \def\@tempa{#1}\ifx\@tempa\@empty
22206 \setpar{\@par
22207 \@tempdima = \hspace
22208 \addtolength{\@tempdima}{-#2}%
22209 \if@RTL
22210 \parshape \@ne \z@ \@tempdima
22211 \else
22212 \parshape \@ne #2 \@tempdima
22213 \fi
22214 }%
22215 \else
22216 \addtolength{\@tempdimc}{#2}%
22217 \addtolength{\@tempdimc}{-#1}%
22218 \setpar{\@par
22219 \@tempdima = \hspace
22220 \addtolength{\@tempdima}{-#1}%
22221 \@tempdimb = \hspace
22222 \addtolength{\@tempdimb}{-#2}%
22223 \if@RTL
22224 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22225 \else
22226 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22227 \fi
22228 }%
22229 \fi
22230 \par
22231 \parindent\@tempdimc\noindent
22232 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22233 }%
22234 \fi
22235 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22236 }
22237 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22238 \renewcommand*\left@footnoterule{%
22239 \normalsize\ftn@rule@test@values
22240 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22241 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22242 {\usekomafont{footnoterule}}{%
22243 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22244 \kern 2.6\p@}
22245 \renewcommand*\right@footnoterule{%
22246 \normalsize\ftn@rule@test@values
22247 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22248 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22249 {\usekomafont{footnoterule}}{%
22250 \hbox to \columnwidth{\hspace \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22251 \kern 2.6\p@}
22252 \renewcommand*\maketitle[1][1]{%

```



```

22253 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22254 \else
22255   \def\and{%
22256     \end{tabular}%
22257     \hskip 1em \@plus.17fil%
22258     \begin{tabular}[t]{c}%
22259   }%
22260 \fi
22261 \if@titlepage
22262   \begin{titlepage}
22263     \setcounter{page}{%
22264       #1%
22265     }%
22266     \if@titlepageiscoverpage
22267       \edef\tITLEPAGE@restore{%
22268         \noexpand\endgroup
22269         \noexpand\global\noexpand\@colht\the\@colht
22270         \noexpand\global\noexpand\@colroom\the\@colroom
22271         \noexpand\global\vsizethe\vsizethe
22272         \noexpand\global\noexpand\@titlepageiscoverpagefalse
22273         \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22274       }%
22275       \begingroup
22276       \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22277       \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22278       \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22279       \textwidth=\dimexpr
22280       \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22281       \textheight=\dimexpr
22282       \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22283       \headheight=0pt
22284       \headsep=0pt
22285       \footskip=\baselineskip
22286       \@colht=\textheight
22287       \@colroom=\textheight
22288       \vsizethe\textheight
22289       \columnwidth=\textwidth
22290       \hsizethe\columnwidth
22291       \linewidth=\hsizethe
22292     \else
22293       \let\tITLEPAGE@restore\relax
22294     \fi
22295     \let\footnotesize\small
22296     \let\right@footnoterule\relax
22297     \let\left@footnoterule\relax
22298     \let\textwidth@footnoterule\relax
22299     \let\footnote\thanks
22300     \let\LTRfootnote\LTRthanks
22301     \let\RTLfootnote\RTLthanks
22302     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22303     \let\@oldmakefnmark\@makefnmark
22304     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22305     \ifx\@extratitle\@empty
22306     \ifx\@frontispiece\@empty

```



```

22307     \else
22308         \if@twoside\mbox{}\next@tpage\fi
22309         \noindent\@frontispiece\next@tdpage
22310     \fi
22311 \else
22312     \noindent\@extratitle
22313     \ifx\@frontispiece\@empty
22314     \else
22315         \next@tpage
22316         \noindent\@frontispiece
22317     \fi
22318     \next@tdpage
22319 \fi
22320 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22321 \ifx\@titlehead\@empty \else
22322     \begin{minipage}[t]{\textwidth}%
22323         \usekomafont{titlehead}{\@titlehead\par}%
22324     \end{minipage}\par
22325 \fi
22326 \null\vfill
22327 \begin{center}
22328     \ifx\@subject\@empty \else
22329         {\usekomafont{subject}{\@subject\par}}%
22330         \vskip 3em
22331     \fi
22332     {\usekomafont{title}{\huge \@title\par}}%
22333     \vskip 1em
22334     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22335     \vskip 2em
22336     {%
22337         \usekomafont{author}{%
22338             \lineskip 0.75em
22339             \begin{tabular}[t]{c}
22340                 \@author
22341             \end{tabular}\par
22342         }%
22343     }%
22344     \vskip 1.5em
22345     {\usekomafont{date}{\@date \par}}%
22346     \vskip \z@ \@plus3fill
22347     {\usekomafont{publishers}{\@publishers \par}}%
22348     \vskip 3em
22349 \end{center}\par
22350 \@thanks\global\let\@thanks\@empty
22351 \vfill\null
22352 \if@twoside
22353     \@tempswatrue
22354     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22355     \else
22356         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22357             \@tempswafalse
22358         \fi\fi
22359     \fi
22360 \if@tempswa

```



```

22361         \next@tpage
22362         \begin{minipage}[t]{\textwidth}
22363             \@uppertitleback
22364         \end{minipage}\par
22365         \vfill
22366         \begin{minipage}[b]{\textwidth}
22367             \@lowertitleback
22368         \end{minipage}\par
22369         \@thanks\global\let\@thanks\@empty
22370     \fi
22371 \else
22372     \ifx\@uppertitleback\@empty\else
22373         \ClassWarning{\KOMAClassName}{%
22374             non empty \string\uppertitleback\space ignored
22375             by \string\maketitle\MessageBreak
22376             in `twoside=false' mode%
22377         }%
22378     \fi
22379     \ifx\@lowertitleback\@empty\else
22380         \ClassWarning{\KOMAClassName}{%
22381             non empty \string\lowertitleback\space ignored
22382             by \string\maketitle\MessageBreak
22383             in `twoside=false' mode%
22384         }%
22385     \fi
22386 \fi
22387 \ifx\@dedication\@empty
22388 \else
22389     \next@tdpage\null\vfill
22390     {\centering\usekomafont{dedication}{\@dedication \par}}%
22391     \vskip \z@ \@plus3fill
22392     \@thanks\global\let\@thanks\@empty
22393     \cleardoubleemptypage
22394 \fi
22395 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22396 \end{titlepage}
22397 \else
22398     \par
22399     \@tempcnta=%
22400     #1%
22401     \relax\ifnum\@tempcnta=1\else
22402         \ClassWarning{\KOMAClassName}{%
22403             Optional argument of \string\maketitle\space ignored\MessageBreak
22404             in `titlepage=false' mode%
22405         }%
22406     \fi
22407     \ifx\@uppertitleback\@empty\else
22408         \ClassWarning{\KOMAClassName}{%
22409             non empty \string\uppertitleback\space ignored
22410             by \string\maketitle\MessageBreak
22411             in `titlepage=false' mode%
22412         }%
22413     \fi
22414     \ifx\@lowertitleback\@empty\else

```



```

22415 \ClassWarning{\KOMAClassName}{%
22416 non empty \string\lowertitleback\space ignored
22417 by \string\maketitle\MessageBreak
22418 in `titlepage=false' mode%
22419 }%
22420 \fi
22421 \begingroup
22422 \let\titlepage@restore\relax
22423 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22424 \let\@oldmakefnmark\@makefnmark
22425 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
22426 \next@tdpage
22427 \if@twocolumn
22428 \ifnum \col@number=\@one
22429 \ifx\@extratitle\@empty
22430 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22431 \else
22432 \@makeextratitle
22433 \fi
22434 \ifx\@frontispiece\@empty
22435 \ifx\@extratitle\@empty\else\next@tdpage\fi
22436 \else
22437 \next@tpage
22438 \@makefrontispiece
22439 \next@tdpage
22440 \fi
22441 \@maketitle
22442 \else
22443 \ifx\@extratitle\@empty
22444 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22445 \else
22446 \twocolumn[\@makeextratitle]%
22447 \fi
22448 \ifx\@frontispiece\@empty
22449 \ifx\@extratitle\@empty\else\next@tdpage\fi
22450 \else
22451 \next@tpage
22452 \twocolumn[\@makefrontispiece]%
22453 \next@tdpage
22454 \fi
22455 \twocolumn[\@maketitle]%
22456 \fi
22457 \else
22458 \ifx\@extratitle\@empty
22459 \ifx\@frontispiece\@empty\else \mbox{}\fi
22460 \else
22461 \@makeextratitle
22462 \fi
22463 \ifx\@frontispiece\@empty
22464 \ifx\@extratitle\@empty\else\next@tdpage\fi
22465 \else
22466 \next@tpage
22467 \@makefrontispiece
22468 \next@tdpage

```



```

22469     \fi
22470     \@maketitle
22471     \fi
22472     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22473     \@thanks\global\let\@thanks\@empty
22474   \endgroup
22475 \fi
22476 \setcounter{footnote}{0}%
22477 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
22478   \let\thanks\relax
22479   \let\LTRthanks\relax
22480   \let\RTLthanks\relax
22481   \let\maketitle\relax
22482   \let\@maketitle\relax
22483   \global\let\@thanks\@empty
22484   \global\let\@author\@empty
22485   \global\let\@date\@empty
22486   \global\let\@title\@empty
22487   \global\let\@subtitle\@empty
22488   \global\let\@extratitle\@empty
22489   \global\let\@frontispiece\@empty
22490   \global\let\@titlehead\@empty
22491   \global\let\@subject\@empty
22492   \global\let\@publishers\@empty
22493   \global\let\@uppertitleback\@empty
22494   \global\let\@lowertitleback\@empty
22495   \global\let\@dedication\@empty
22496   \global\let\author\relax
22497   \global\let\title\relax
22498   \global\let\extratitle\relax
22499   \global\let\titlehead\relax
22500   \global\let\subject\relax
22501   \global\let\publishers\relax
22502   \global\let\uppertitleback\relax
22503   \global\let\lowertitleback\relax
22504   \global\let\dedication\relax
22505   \global\let\date\relax
22506 \fi
22507 \global\let\and\relax
22508 }%
22509 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22510 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22511 \renewcommand*\thesection{%
22512   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22513     \if@mainmatter\thechapter\@SepMark\fi
22514   \else
22515     \thechapter\@SepMark%
22516   \fi
22517   \@arabic\c@section
22518 }
22519 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
22520 \renewcommand*{\thesubsubsection}{%
22521   \thesubsection\@SepMark\@arabic\c@subsubsection
22522 }

```



```

22523 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22524 \renewcommand*{\thesubparagraph}{%
22525   \theparagraph\@SepMark\@arabic\c@subparagraph
22526 }
22527 \expandafter\ifnum\scr@v@is@le{2.97d}%
22528 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22529 \fi
22530 \expandafter\ifnum\scr@v@is@le{2.97d}%
22531 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22532 \fi
22533 \renewcommand*{\theequation}{%
22534 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22535   \if@mainmatter\thechapter\@SepMark\fi
22536   \else
22537     \thechapter\@SepMark%
22538   \fi
22539   \@arabic\c@equation
22540 }
22541 \renewenvironment{thebibliography}[1]{%
22542   \if@bib@break@
22543     \bib@beginhook
22544   \else
22545     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22546       \setchapterpreamble{\bibpreamble}%
22547     \fi\fi
22548     \bib@heading
22549     \bib@beginhook
22550     \bib@before@hook
22551   \fi
22552   \renewcommand{\BreakBibliography}[1]{%
22553     \@bib@break
22554     \end{thebibliography}%
22555     \begingroup ##1\endgroup
22556     \begin{thebibliography}{#1}
22557   }%
22558   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
22559   \bidi@thebibliography@font@hook%
22560   \list{%
22561     \@biblabel{\@arabic\c@enumiv}%
22562   }{%
22563     \settowidth\labelwidth{\@biblabel{#1}}%
22564     \leftmargin\labelwidth
22565     \advance\leftmargin\labelsep
22566     \@openbib@code
22567     \if@bib@break@
22568       \edef\@tempa{%
22569         \noexpand\usecounter{enumiv}%
22570         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22571       }\@tempa
22572     \no@bib@break
22573   \else
22574     \usecounter{enumiv}%
22575   \fi
22576   \let\p@enumiv\@empty

```



```

22577 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22578 }%
22579 \sloppy\clubpenalty4000 \widowpenalty4000
22580 \sfcode`.=\@m
22581 }{%
22582 \if@bib@break@
22583 \def\@noitemerr{%
22584 \latex@warning{%
22585 \string\BreakBibliography\space at begin of `thebibliography'
22586 environment\MessageBreak
22587 or following \string\BreakBibliography}%
22588 }%
22589 \else
22590 \def\@noitemerr{%
22591 \latex@warning{%
22592 Empty `thebibliography' environment or
22593 \string\BreakBibliography\MessageBreak
22594 before end of `thebibliography' environment}%
22595 }%
22596 \fi
22597 \endlist
22598 \if@bib@break@
22599 \else
22600 \bib@after@hook
22601 \let\bib@before@hook\@empty
22602 \let\bib@after@hook\@empty
22603 \fi
22604 \bib@endhook
22605 }
22606 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22607 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22608 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22609 \renewcommand\marginline[1]{%
22610 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22611 }
22612 \renewcommand{\@makecaption}[3]{%
22613 \cap@margin
22614 \begingroup
22615 \ifonelinecaptions
22616 \def\stepcounter##1{\advance\value{##1}\@ne}%
22617 \let\refstepcounter\stepcounter
22618 \let\label\@gobble
22619 \let\@footnotetext=\@gobble
22620 \let\@LTRfootnotetext=\@gobble
22621 \let\@RTLfootnotetext=\@gobble
22622 \let\hypertarget\@gobbletwo
22623 \edef\@xnewline{%
22624 \unexpanded{\ClassInfo{\KOMAClassName}}{%
22625 Workaround for not recommended usage of \string\ or\MessageBreak
22626 \string\newline in caption text
22627 }%
22628 \hspace*{\linewidth}\hspace{1sp}}%
22629 }%
22630 \unexpanded\expandafter{\@xnewline}%

```




```

22631 }%
22632 \edef\xcentercr{%
22633   \unexpanded{\ClassInfo{\KOMAClassName}{%
22634     Workaround for not recommended usage of \string\\ or\MessageBreak
22635     \string\newline in caption text
22636   }}%
22637   \hspace*{\linewidth}\hspace{1sp}%
22638 }%
22639 \unexpanded\expandafter{\xcentercr}%
22640 }%
22641 \settowidth{@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22642 \ifdim@tempdima>\cap@width
22643   \aftergroup\scr@makemultilinecaption
22644 \else
22645   \aftergroup\scr@makesinglelinecaption
22646 \fi
22647 \else
22648   \aftergroup\scr@makemultilinecaption
22649 \fi
22650 \endgroup
22651 {#1}{#2}{#3}%
22652 }
22653 \renewcommand{\scr@makesinglelinecaption}[3]{%
22654   {%
22655     \usefontofkomafont{caption}{%
22656       \hb@xt@{\hsizel}{%
22657         \cap@left
22658         \if@RTL
22659           \beginR
22660           \fi
22661         \scr@makesinglelinecaption{#1}{#2}{#3}%
22662         \if@RTL
22663           \endR
22664         \fi
22665         \cap@right
22666       }\par\kern\dp\strutbox%
22667     }%
22668   }\kern-\dp\strutbox
22669 }
22670 \renewcommand{\@makecaption}[2]{%
22671   \if@captionabove
22672     \vskip\belowcaptionskip
22673   \else
22674     \vskip\abovecaptionskip
22675   \fi
22676   \@makecaption\@firstofone{#1}{#2}%
22677   \if@captionabove
22678     \vskip\abovecaptionskip
22679   \else
22680     \vskip\belowcaptionskip
22681   \fi
22682 }
22683
22684 \renewcommand{\scr@makesinglelinecaption}[3]{%

```



```

22685     {\usekomafont{caption}{\strut\ignorespaces
22686       #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22687       \ignorespaces #3\unskip}}%
22688 }
22689
22690 \renewcommand{\scr@makemultilinecaption}[3]{%
22691   {%
22692     \usefontofkomafont{caption}{%
22693       \hb@xt@\hsize{%
22694         \cap@left
22695         \vbox{\hsize\cap@width\linewidth\hsize
22696           \scr@ifundefinedorrelax{@capttype}{%
22697             \ClassWarning{\KOMAClassName}{%
22698               `string\caption' outside float.\MessageBreak
22699               Seems you are using `string\caption' outside a
22700               float.\MessageBreak
22701               Maybe you are using a package that uses
22702               `string@makecaption'\MessageBreak
22703               without setting `string@capttype' before.\MessageBreak
22704               Because I cannot detect the caption type, I'm using\MessageBreak
22705               the empty one.%
22706             }%
22707             \let\@capttype\@empty
22708           }{}%
22709           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
22710             \@nameuse{ragged\@capttype caption}%
22711           }%
22712           \ifdofullc@p
22713             \@hangfrom{%
22714               \strut
22715               \scr@smashdp{%
22716                 #1{%
22717                   \usekomafont{caption}{%
22718                     \usekomafont{captionlabel}{#2\captionformat}%
22719                   }%
22720                 }%
22721               }%
22722             }%
22723             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22724           \else
22725             \ifdim\cap@indent<\z@
22726               \strut
22727               #1{%
22728                 {\usekomafont{caption}{%
22729                   \usekomafont{captionlabel}{#2\captionformat}%
22730                 }%
22731               }\par}%
22732             \noindent{\usekomafont{caption}{%
22733               \hspace*{-\cap@indent}#3\scr@endstrut
22734             }\par}%
22735           \else
22736             \if@capbreak
22737               \strut
22738               #1{%

```



```

22739         {\usekomafont{caption}{%
22740          \usekomafont{captionlabel}{#2\captionformat}%
22741         }
22742        }\par}%
22743        \noindent\@hangfrom{\hspace*{\cap@indent}}%
22744        {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22745    \else
22746    \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22747    {%
22748    \hspace{-\cap@indent}%
22749    \scr@smashdp{%
22750    #1{\usekomafont{caption}{%
22751     \usekomafont{captionlabel}{#2\captionformat}%
22752     }%
22753    }%
22754    }%
22755    {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22756    }%
22757    \fi
22758    \fi
22759    \fi
22760    }%
22761    \cap@right
22762    }\par\kern\dp\strutbox
22763    }%
22764    }\kern-\dp\strutbox
22765    }
22766
22767
22768 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22769  \if@komalongtable
22770    \renewcommand{\LT@makecaption}[3]{%
22771    \noalign{%
22772    \if@captionabove
22773    \vskip\belowcaptionskip
22774    \else
22775    \vskip\abovecaptionskip
22776    \fi
22777    }%
22778    \LT@ncol\LT@cols c{%
22779    \hbox to\z@{\hss\parbox[t]\linewidth{%
22780    \def\@capytype{table}%
22781    \@makecaption{#1}{#2}{#3}%
22782    \endgraf
22783    \if@captionabove
22784    \vskip\abovecaptionskip
22785    \else
22786    \vskip\belowcaptionskip
22787    \fi
22788    }%
22789    \hss
22790    }%
22791    }%
22792    }%

```



```

22793 \renewcommand*{\scr@LT@array}{}%
22794 \let\scr@LT@array=\LT@array
22795 \renewcommand*{\LT@array}{%
22796 \let\scr@caption=\LT@caption
22797 \def\captionabove{\noalign{\global\@captionabovetrue}%
22798 \scr@caption}%
22799 \def\captionbelow{\noalign{\global\@captionabovefalse}%
22800 \scr@caption}%
22801 \if@tablecaptionabove
22802 \let\LT@caption=\captionabove
22803 \else
22804 \let\LT@caption=\captionbelow
22805 \fi
22806 \scr@LT@array
22807 }%
22808 \ClassInfo{\KOMAClassName}{%
22809 longtable captions redefined%
22810 }%
22811 \fi
22812 }
22813
22814 \CloneTOCEntryStyle{tocline}{part}
22815 \TOCEntryStyleStartInitCode{part}{%
22816 \expandafter\renewcommand%
22817 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22818 \expandafter\renewcommand%
22819 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22820 \expandafter\renewcommand%
22821 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22822 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}}%
22823 \expandafter\renewcommand\expandafter*%
22824 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p0}%
22825 }
22826
22827 \CloneTOCEntryStyle{tocline}{chapter}
22828 \TOCEntryStyleStartInitCode{chapter}{%
22829 \expandafter\renewcommand%
22830 \csname scr@tso@#1@linefill\endcsname{%
22831 \if@chapterentrywithdots
22832 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22833 \else
22834 \hfill
22835 \fi
22836 }%
22837 \expandafter\renewcommand%
22838 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22839 \expandafter\renewcommand%
22840 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22841 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}}%
22842 \expandafter\renewcommand\expandafter*%
22843 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
22844 }
22845
22846 \CloneTOCEntryStyle{tocline}{section}

```



```

22847 \TOCEntryStyleStartInitCode{section}{%
22848   \expandafter\renewcommand%
22849   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22850     \expandafter\renewcommand%
22851     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22852       {\normalfont\normalcolor ##1}}%
22853 }
22854
22855 \CloneTOCEntryStyle{section}{default}
22856
22857 \DeclareSectionCommand[%
22858   style=chapter,%
22859   level=\z@,%
22860   pagestyle=plain,%
22861   tocstyle=chapter,%
22862   tocindent=\z@,%
22863   tocnumwidth=1.5em%
22864 ]{chapter}
22865 \DeclareSectionCommand[%
22866   style=section,%
22867   level=1,%
22868   indent=\z@,%
22869   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22870   afterskip=2.3ex \@plus .2ex,%
22871   tocstyle=section,%
22872   tocindentfollows=chapter,%
22873   tocindent=1.5em,%
22874   tocnumwidth=2.3em%
22875 ]{section}
22876 \DeclareSectionCommand[%
22877   style=part,%
22878   level=\m@ne,%
22879   pagestyle=plain,%
22880   tocstyle=part,%
22881   toclevel=\m@ne,%
22882   tocindent=\z@,%
22883   tocnumwidth=2em%
22884 ]{part}
22885 \DeclareSectionCommand[%
22886   style=section,%
22887   level=2,%
22888   indent=\z@,%
22889   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22890   afterskip=1.5ex \@plus .2ex,%
22891   tocstyle=section,%
22892   tocindent=3.8em,%
22893   tocnumwidth=3.2em%
22894 ]{subsection}
22895 \DeclareSectionCommand[%
22896   style=section,%
22897   level=3,%
22898   indent=\z@,%
22899   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22900   afterskip=1.5ex \@plus .2ex,%

```



```

22901 tocstyle=section,%
22902 tocindent=7.0em,%
22903 tocnumwidth=4.1em%
22904 ]{subsubsection}
22905 \DeclareSectionCommand[%
22906 style=section,%
22907 level=4,%
22908 indent=\z@,%
22909 beforekip=3.25ex \@plus1ex \@minus.2ex,%
22910 afterskip=-1em,%
22911 tocindentfollows=subsubsection,%
22912 tocstyle=section,%
22913 tocindent=10em,%
22914 tocnumwidth=5em%
22915 ]{paragraph}
22916 \DeclareSectionCommand[%
22917 style=section,%
22918 level=5,%
22919 indent=\scr@parindent,%
22920 beforekip=3.25ex \@plus1ex \@minus.2ex,%
22921 afterskip=-1em,%
22922 tocstyle=section,%
22923 tocindent=12em,%
22924 tocnumwidth=6em%
22925 ]{subparagraph}

```

143 File `scrreprt-xetex-bidi.def`

```

22926 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22927 \newcommand{\scr@saved@LTRfootnotetext}{}
22928 \newcommand{\scr@saved@RTLfootnotetext}{}
22929 \let\scr@saved@footnotetext\@footnotetext
22930 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22931 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22932 \renewcommand{\@footnotetext}[1]{%
22933 \scr@saved@footnotetext{#1}%
22934 \csname FN@mf@prepare\endcsname
22935 }
22936 \renewcommand{\@LTRfootnotetext}[1]{%
22937 \scr@saved@LTRfootnotetext{#1}%
22938 \csname FN@mf@prepare\endcsname
22939 }
22940 \renewcommand{\@RTLfootnotetext}[1]{%
22941 \scr@saved@RTLfootnotetext{#1}%
22942 \csname FN@mf@prepare\endcsname
22943 }
22944 \renewcommand\deffootnote[4] [] {%
22945 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22946 \long\def\@makefntext##1{%
22947 \ExecuteDoHook{footnote/text/begin}%
22948 \raggedfootnote
22949 \if@RTL
22950 \rightskip
22951 \else

```



```

22952     \leftskip
22953 \fi
22954 #2
22955 \l@addto@macro\@trivlist{%
22956   \ifnum\@listdepth=\@one
22957     \if@RTL
22958       \advance\rightmargin #2\relax
22959     \else
22960       \advance\leftmargin #2\relax
22961     \fi
22962   \fi
22963 }%
22964 \parindent #3\noindent
22965 \IfArgIsEmpty{#1}{-}{%
22966   \hskip \dimexpr #1-#2\relax
22967 }%
22968 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22969 \ExecuteDoHook{footnote/text/end}%
22970 }%
22971 \else
22972 \ClassInfo{\KOMAClassName}{%
22973   Using old \string\@makefnmark\space due to compatibility
22974   level\MessageBreak
22975   less than 3.22}%
22976 \long\def\@makefnmark##1{%
22977   \setlength{\@tempdimc}{#3}%
22978   \def\@tempa{#1}\ifx\@tempa\@empty
22979     \@setpar{\@@par
22980       \@tempdima = \hsize
22981       \addtolength{\@tempdima}{-#2}%
22982       \if@RTL
22983         \parshape \@one \z@ \@tempdima
22984       \else
22985         \parshape \@one #2 \@tempdima
22986       \fi
22987     }%
22988   \else
22989     \addtolength{\@tempdimc}{#2}%
22990     \addtolength{\@tempdimc}{-#1}%
22991     \@setpar{\@@par
22992       \@tempdima = \hsize
22993       \addtolength{\@tempdima}{-#1}%
22994       \@tempdimb = \hsize
22995       \addtolength{\@tempdimb}{-#2}%
22996       \if@RTL
22997         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22998       \else
22999         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
23000       \fi
23001     }%
23002   \fi
23003 \par
23004 \parindent\@tempdimc\noindent
23005 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%

```



```

23006 }%
23007 \fi
23008 \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
23009 }
23010 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
23011 \renewcommand*\left@footnoterule{%
23012 \normalsize\ftn@rule@test@values
23013 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23014 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23015 {\usekomafont{footnoterule}{%
23016 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
23017 \kern 2.6\p@}
23018 \renewcommand*\right@footnoterule{%
23019 \normalsize\ftn@rule@test@values
23020 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23021 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23022 {\usekomafont{footnoterule}{%
23023 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
23024 \kern 2.6\p@}
23025 \renewcommand*\maketitle[1][1]{%
23026 \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
23027 \else
23028 \def\and{%
23029 \end{tabular}%
23030 \hskip 1em \@plus.17fil%
23031 \begin{tabular}[t]{c}%
23032 }%
23033 \fi
23034 \if@titlepage
23035 \begin{titlepage}
23036 \setcounter{page}{%
23037 #1%
23038 }%
23039 \if@titlepageiscoverpage
23040 \edef\titlename@restore{%
23041 \noexpand\endgroup
23042 \noexpand\global\noexpand\@colht\the\@colht
23043 \noexpand\global\noexpand\@colroom\the\@colroom
23044 \noexpand\global\vsizethe\vsizethe
23045 \noexpand\global\noexpand\@titlepageiscoverpagefalse
23046 \noexpand\let\noexpand\titlename@restore\noexpand\relax
23047 }%
23048 \begingroup
23049 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23050 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23051 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23052 \textwidth=\dimexpr
23053 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23054 \textheight=\dimexpr
23055 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23056 \headheight=0pt
23057 \headsep=0pt
23058 \footskip=\baselineskip
23059 \@colht=\textheight

```




```

23060     \@colroom=\textheight
23061     \vsize=\textheight
23062     \columnwidth=\textwidth
23063     \hsize=\columnwidth
23064     \linewidth=\hsize
23065 \else
23066     \let\titlepage@restore\relax
23067 \fi
23068 \let\footnotesize\small
23069 \let\right@footnoterule\relax
23070 \let\left@footnoterule\relax
23071 \let\textwidth@footnoterule\relax
23072 \let\footnote\thanks
23073 \let\LTRfootnote\LTRthanks
23074 \let\RTLfootnote\RTLthanks
23075 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23076 \let\@oldmakefnmark\@makefnmark
23077 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23078 \ifx\@extratitle\@empty
23079     \ifx\@frontispiece\@empty
23080     \else
23081         \if@twoside\mbox{}\next@tpage\fi
23082         \noindent\@frontispiece\next@tdpage
23083     \fi
23084 \else
23085     \noindent\@extratitle
23086     \ifx\@frontispiece\@empty
23087     \else
23088         \next@tpage
23089         \noindent\@frontispiece
23090     \fi
23091     \next@tdpage
23092 \fi
23093 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
23094 \ifx\@titlehead\@empty \else
23095     \begin{minipage}[t]{\textwidth}%
23096         \usekomafont{titlehead}{\@titlehead\par}%
23097     \end{minipage}\par
23098 \fi
23099 \null\vfill
23100 \begin{center}
23101     \ifx\@subject\@empty \else
23102         {\usekomafont{subject}{\@subject\par}}%
23103         \vskip 3em
23104     \fi
23105     {\usekomafont{title}{\huge \@title\par}}%
23106     \vskip 1em
23107     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23108     \vskip 2em
23109     {%
23110         \usekomafont{author}{%
23111             \lineskip 0.75em
23112             \begin{tabular}[t]{c}
23113                 \@author

```



```

23114         \end{tabular}\par
23115     }%
23116 }%
23117 \vskip 1.5em
23118 {\usekomafont{date}{\@date \par}}%
23119 \vskip \z@ \@plus3fill
23120 {\usekomafont{publishers}{\@publishers \par}}%
23121 \vskip 3em
23122 \end{center}\par
23123 \@thanks\global\let\@thanks\@empty
23124 \vfill\null
23125 \if@twoside
23126 \@tempswatruue
23127 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23128 \else
23129 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23130 \@tempswafalse
23131 \fi\fi
23132 \fi
23133 \if@tempswa
23134 \next@tpage
23135 \begin{minipage}[t]{\textwidth}
23136 \@uppertitleback
23137 \end{minipage}\par
23138 \vfill
23139 \begin{minipage}[b]{\textwidth}
23140 \@lowertitleback
23141 \end{minipage}\par
23142 \@thanks\global\let\@thanks\@empty
23143 \fi
23144 \else
23145 \ifx\@uppertitleback\@empty\else
23146 \ClassWarning{\KOMAClassName}{%
23147 non empty \string\uppertitleback\space ignored
23148 by \string\maketitle\MessageBreak
23149 in `twoside=false' mode%
23150 }%
23151 \fi
23152 \ifx\@lowertitleback\@empty\else
23153 \ClassWarning{\KOMAClassName}{%
23154 non empty \string\lowertitleback\space ignored
23155 by \string\maketitle\MessageBreak
23156 in `twoside=false' mode%
23157 }%
23158 \fi
23159 \fi
23160 \ifx\@dedication\@empty
23161 \else
23162 \next@tdpage\null\vfill
23163 {\centering\usekomafont{dedication}{\@dedication \par}}%
23164 \vskip \z@ \@plus3fill
23165 \@thanks\global\let\@thanks\@empty
23166 \cleardoubleemptypage
23167 \fi

```



```

23168     \ifx\titlename@restore\relax\else\clearpage\titlename@restore\fi
23169     \end{titlename}
23170 \else
23171     \par
23172     \@tempcnta=%
23173     #1%
23174     \relax\ifnum\@tempcnta=1\else
23175     \ClassWarning{\KOMAClassName}{%
23176     Optional argument of \string\maketitle\space ignored\MessageBreak
23177     in `titlename=false' mode%
23178     }%
23179     \fi
23180     \ifx\@uppertitleback\@empty\else
23181     \ClassWarning{\KOMAClassName}{%
23182     non empty \string\uppertitleback\space ignored
23183     by \string\maketitle\MessageBreak
23184     in `titlename=false' mode%
23185     }%
23186     \fi
23187     \ifx\@lowertitleback\@empty\else
23188     \ClassWarning{\KOMAClassName}{%
23189     non empty \string\lowertitleback\space ignored
23190     by \string\maketitle\MessageBreak
23191     in `titlename=false' mode%
23192     }%
23193     \fi
23194     \begin{group}
23195     \let\titlename@restore\relax
23196     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23197     \let\@oldmakefnmark\@makefnmark
23198     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23199     \next@tdpage
23200     \if@twocolumn
23201     \ifnum \col@number=\@ne
23202     \ifx\@extratitle\@empty
23203     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23204     \else
23205     \@makeextratitle
23206     \fi
23207     \ifx\@frontispiece\@empty
23208     \ifx\@extratitle\@empty\else\next@tdpage\fi
23209     \else
23210     \next@tpage
23211     \@makefrontispiece
23212     \next@tdpage
23213     \fi
23214     \@maketitle
23215     \else
23216     \ifx\@extratitle\@empty
23217     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23218     \else
23219     \twocolumn[\@makeextratitle]%
23220     \fi
23221     \ifx\@frontispiece\@empty

```



```

23222         \ifx\@extratitle\@empty\else\next@tdpage\fi
23223     \else
23224         \next@tpage
23225         \twocolumn[\@makefrontispiece]%
23226         \next@tdpage
23227     \fi
23228     \twocolumn[\@maketitle]%
23229 \fi
23230 \else
23231     \ifx\@extratitle\@empty
23232     \ifx\@frontispiece\@empty\else \mbox{}\fi
23233     \else
23234         \@makeextratitle
23235     \fi
23236     \ifx\@frontispiece\@empty
23237     \ifx\@extratitle\@empty\else\next@tdpage\fi
23238     \else
23239         \next@tpage
23240         \@makefrontispiece
23241         \next@tdpage
23242     \fi
23243     \@maketitle
23244 \fi
23245     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23246     \@thanks\global\let\@thanks\@empty
23247 \endgroup
23248 \fi
23249 \setcounter{footnote}{0}%
23250 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
23251     \let\thanks\relax
23252     \let\LTRthanks\relax
23253     \let\RTLthanks\relax
23254     \let\maketitle\relax
23255     \let\@maketitle\relax
23256     \global\let\@thanks\@empty
23257     \global\let\@author\@empty
23258     \global\let\@date\@empty
23259     \global\let\@title\@empty
23260     \global\let\@subtitle\@empty
23261     \global\let\@extratitle\@empty
23262     \global\let\@frontispiece\@empty
23263     \global\let\@titlehead\@empty
23264     \global\let\@subject\@empty
23265     \global\let\@publishers\@empty
23266     \global\let\@uppertitleback\@empty
23267     \global\let\@lowertitleback\@empty
23268     \global\let\@dedication\@empty
23269     \global\let\author\relax
23270     \global\let\title\relax
23271     \global\let\extratitle\relax
23272     \global\let\titlehead\relax
23273     \global\let\subject\relax
23274     \global\let\publishers\relax
23275     \global\let\uppertitleback\relax

```



```

23276 \global\let\lowertitleback\relax
23277 \global\let\dedication\relax
23278 \global\let\date\relax
23279 \fi
23280 \global\let\and\relax
23281 }%
23282 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23283 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23284 \renewcommand*\thesection{%
23285 \thechapter\@SepMark%
23286 \@arabic\c@section
23287 }
23288 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
23289 \renewcommand*\thesubsubsection{%
23290 \thesubsection\@SepMark\@arabic\c@subsubsection
23291 }
23292 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23293 \renewcommand*\thesubparagraph{%
23294 \theparagraph\@SepMark\@arabic\c@subparagraph
23295 }
23296 \expandafter\ifnum\scr@v@is@le{2.97d}%
23297 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23298 \fi
23299 \expandafter\ifnum\scr@v@is@le{2.97d}%
23300 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23301 \fi
23302 \renewcommand*\theequation{%
23303 \thechapter\@SepMark%
23304 \@arabic\c@equation
23305 }
23306 \renewenvironment{thebibliography}[1]{%
23307 \if@bib@break@
23308 \bib@beginhook
23309 \else
23310 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23311 \setchapterpreamble{\bibpreamble}%
23312 \fi\fi
23313 \bib@heading
23314 \bib@beginhook
23315 \bib@before@hook
23316 \fi
23317 \renewcommand{\BreakBibliography}[1]{%
23318 \@bib@break
23319 \end{thebibliography}%
23320 \begingroup ##1\endgroup
23321 \begin{thebibliography}{#1}
23322 }%
23323 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23324 \bidi@thebibliography@font@hook%
23325 \list{%
23326 \@biblabel{\@arabic\c@enumiv}%
23327 }{%
23328 \settowidth\labelwidth{\@biblabel{#1}}%
23329 \leftmargin\labelwidth

```



```

23330 \advance\leftmargin\labelsep
23331 \@openbib@code
23332 \if@bib@break@
23333 \edef\@tempa{%
23334 \noexpand\usecounter{enumiv}}%
23335 \noexpand\setcounter{enumiv}{\the\c@enumiv}}%
23336 }\@tempa
23337 \no@bib@break
23338 \else
23339 \usecounter{enumiv}}%
23340 \fi
23341 \let\p@enumiv\@empty
23342 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
23343 }%
23344 \sloppy\clubpenalty4000 \widowpenalty4000
23345 \sfcode`\.\@m
23346 }%
23347 \if@bib@break@
23348 \def\@noitemerr{%
23349 \@latex@warning{%
23350 \string\BreakBibliography\space at begin of `thebibliography'
23351 environment\MessageBreak
23352 or following \string\BreakBibliography}}%
23353 }%
23354 \else
23355 \def\@noitemerr{%
23356 \@latex@warning{%
23357 Empty `thebibliography' environment or
23358 \string\BreakBibliography\MessageBreak
23359 before end of `thebibliography' environment}}%
23360 }%
23361 \fi
23362 \endlist
23363 \if@bib@break@
23364 \else
23365 \bib@after@hook
23366 \let\bib@before@hook\@empty
23367 \let\bib@after@hook\@empty
23368 \fi
23369 \bib@endhook
23370 }
23371 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
23372 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
23373 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
23374 \renewcommand\marginline[1]{%
23375 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23376 }
23377 \renewcommand{\@makecaption}[3]{%
23378 \cap@margin
23379 \begingroup
23380 \ifonelinecaptions
23381 \def\stepcounter##1{\advance\value{##1}\@ne}}%
23382 \let\refstepcounter\stepcounter
23383 \let\label@gobble

```



```

23384 \let\@footnotetext=\@gobble
23385 \let\@LTRfootnotetext=\@gobble
23386 \let\@RTLfootnotetext=\@gobble
23387 \let\hypertarget\@gobbletwo
23388 \edef\@xnewline{%
23389   \unexpanded{\ClassInfo{\KOMAClassName}{%
23390     Workaround for not recommended usage of \string\ or\MessageBreak
23391     \string\newline in caption text
23392   }}%
23393   \hspace*{\linewidth}\hspace{1sp}%
23394 }%
23395 \unexpanded\expandafter{\@xnewline}%
23396 }%
23397 \edef\@xcentercr{%
23398   \unexpanded{\ClassInfo{\KOMAClassName}{%
23399     Workaround for not recommended usage of \string\ or\MessageBreak
23400     \string\newline in caption text
23401   }}%
23402   \hspace*{\linewidth}\hspace{1sp}%
23403 }%
23404 \unexpanded\expandafter{\@xcentercr}%
23405 }%
23406 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23407 \ifdim\@tempdima>\cap@width
23408   \aftergroup\scr@makemultilinecaption
23409 \else
23410   \aftergroup\scr@makesinglelinecaption
23411 \fi
23412 \else
23413   \aftergroup\scr@makemultilinecaption
23414 \fi
23415 \endgroup
23416 {#1}{#2}{#3}%
23417 }
23418 \renewcommand{\scr@makesinglelinecaption}[3]{%
23419   {%
23420     \usefontofkomafont{caption}{%
23421       \hb@xt@\hsize{%
23422         \cap@left
23423         \if@RTL
23424           \beginR
23425           \fi
23426         \scr@makesinglelinecaption{#1}{#2}{#3}%
23427         \if@RTL
23428           \endR
23429         \fi
23430         \cap@right
23431       }\par\kern\dp\strutbox%
23432     }}%
23433   }\kern-\dp\strutbox
23434 }
23435 \renewcommand{\@makecaption}[2]{%
23436   \if@captionabove
23437     \vskip\belowcaptionskip

```



```

23438 \else
23439   \vskip\abovecaptionskip
23440 \fi
23441 \@makecaption\@firstofone{#1}{#2}%
23442 \if@captionabove
23443   \vskip\abovecaptionskip
23444 \else
23445   \vskip\belowcaptionskip
23446 \fi
23447 }
23448
23449 \renewcommand{\scr@makesinglelinecaption}[3]{%
23450   {\usekomafont{caption}{\strut\ignorespaces
23451     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23452     \ignorespaces #3\unskip}}%
23453 }
23454
23455 \renewcommand{\scr@makemultilinecaption}[3]{%
23456   {%
23457     \usefontofkomafont{caption}{%
23458       \hb@xt@\hsize{%
23459         \cap@left
23460         \vbox{\hsize\cap@width\linewidth\hsize
23461           \scr@ifundefinedorrelax{@capttype}{%
23462             \ClassWarning{\KOMAClassName}{%
23463               `string\caption' outside float.\MessageBreak
23464               Seems you are using `string\caption' outside a
23465               float.\MessageBreak
23466               Maybe you are using a package that uses
23467               `string\@makecaption'\MessageBreak
23468               without setting `string\@capttype' before.\MessageBreak
23469               Because I cannot detect the caption type, I'm using\MessageBreak
23470               the empty one.%
23471             }}%
23472             \let\@capttype\@empty
23473           }}}%
23474     \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
23475       \@nameuse{ragged\@capttype caption}%
23476     }%
23477     \ifdofullc@p
23478       \@hangfrom{%
23479         \strut
23480         \scr@smashdp{%
23481           #1{%
23482             \usekomafont{caption}{%
23483               \usekomafont{captionlabel}{#2\captionformat}%
23484             }%
23485           }%
23486         }%
23487       }%
23488       {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23489   \else
23490     \ifdim\cap@indent<\z@
23491       \strut

```




```

23492         #1{%
23493             {\usekomafont{caption}}{%
23494                 \usekomafont{captionlabel}{#2\captionformat}%
23495             }%
23496         }\par}%
23497     \noindent{{\usekomafont{caption}}{%
23498         \hspace*{-\cap@indent}#3\scr@endstrut
23499     }}\par}%
23500 \else
23501     \if@capbreak
23502         \strut
23503         #1{%
23504             {\usekomafont{caption}}{%
23505                 \usekomafont{captionlabel}{#2\captionformat}%
23506             }%
23507         }\par}%
23508     \noindent\@hangfrom{\hspace*{\cap@indent}}%
23509     {{\usekomafont{caption}}{#3\scr@endstrut}}\par}%
23510 \else
23511     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23512     {%
23513         \hspace{-\cap@indent}%
23514         \scr@smashdp{%
23515             #1{\usekomafont{caption}}{%
23516                 \usekomafont{captionlabel}{#2\captionformat}%
23517             }%
23518         }%
23519     }%
23520     {{\usekomafont{caption}}{#3\scr@endstrut}}\par}%
23521 }%
23522 \fi
23523 \fi
23524 \fi
23525 }%
23526 \cap@right
23527 }\par\kern\dp\strutbox
23528 }%
23529 }\kern-\dp\strutbox
23530 }
23531
23532
23533 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23534 \if@komalongtable
23535     \renewcommand{\LT@makecaption}[3]{%
23536         \noalign{%
23537             \if@captionabove
23538                 \vskip\belowcaptionskip
23539             \else
23540                 \vskip\abovecaptionskip
23541             \fi
23542         }%
23543         \LT@mc\LT@cols c{%
23544             \hbox to\z@{\hss\parbox[t]{\linewidth}{%
23545                 \def\captype{table}%

```



```

23546         \@@makecaption{#1}{#2}{#3}%
23547         \endgraf
23548         \if@captionabove
23549             \vskip\abovecaptionskip
23550         \else
23551             \vskip\belowcaptionskip
23552         \fi
23553     }%
23554     \hss
23555 }%
23556 }%
23557 }%
23558 \renewcommand*{\scr@LT@array}{}%
23559 \let\scr@LT@array=\LT@array
23560 \renewcommand*{\LT@array}{%
23561     \let\scr@caption=\LT@caption
23562     \def\captionabove{\noalign{\global\@captionabovetrue}%
23563         \scr@caption}%
23564     \def\captionbelow{\noalign{\global\@captionabovetrue}%
23565         \scr@caption}%
23566     \if@tablecaptionabove
23567         \let\LT@caption=\captionabove
23568     \else
23569         \let\LT@caption=\captionbelow
23570     \fi
23571     \scr@LT@array
23572 }%
23573 \ClassInfo{\KOMAClassName}{%
23574     longtable captions redefined%
23575 }%
23576 \fi
23577 }
23578
23579 \CloneTOCEntryStyle{tocline}{part}
23580 \TOCEntryStyleStartInitCode{part}{%
23581     \expandafter\renewcommand%
23582     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23583     \expandafter\renewcommand%
23584     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23585     \expandafter\renewcommand%
23586     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23587         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23588     \expandafter\renewcommand\expandafter*%
23589     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
23590 }
23591
23592 \CloneTOCEntryStyle{tocline}{chapter}
23593 \TOCEntryStyleStartInitCode{chapter}{%
23594     \expandafter\renewcommand%
23595     \csname scr@tso@#1@linefill\endcsname{%
23596         \if@chapterentrywithdots
23597             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23598         \else
23599             \hfill

```



```

23600     \fi
23601   }%
23602   \expandafter\renewcommand%
23603   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
23604   \expandafter\renewcommand%
23605   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23606     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}}%
23607   \expandafter\renewcommand\expandafter*%
23608   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
23609 }
23610
23611 \CloneTOCEntryStyle{tocline}{section}
23612 \TOCEntryStyleStartInitCode{section}{%
23613   \expandafter\renewcommand%
23614   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23615   \expandafter\renewcommand%
23616   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23617     {\normalfont\normalcolor ##1}}}%
23618 }
23619
23620 \CloneTOCEntryStyle{section}{default}
23621
23622 \DeclareSectionCommand[%
23623   style=chapter,%
23624   level=\z@,%
23625   pagestyle=plain,%
23626   tocstyle=chapter,%
23627   tocindent=\z@,%
23628   tocnumwidth=1.5em%
23629 ]{chapter}
23630 \DeclareSectionCommand[%
23631   style=section,%
23632   level=1,%
23633   indent=\z@,%
23634   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23635   afterskip=2.3ex \@plus.2ex,%
23636   tocstyle=section,%
23637   tocindentfollows=chapter,%
23638   tocindent=1.5em,%
23639   tocnumwidth=2.3em%
23640 ]{section}
23641 \DeclareSectionCommand[%
23642   style=part,%
23643   level=\m@ne,%
23644   pagestyle=plain,%
23645   tocstyle=part,%
23646   toclevel=\m@ne,%
23647   tocindent=\z@,%
23648   tocnumwidth=2em%
23649 ]{part}
23650 \DeclareSectionCommand[%
23651   style=section,%
23652   level=2,%
23653   indent=\z@,%

```



```

23654 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23655 afterskip=1.5ex \@plus .2ex,%
23656 tocstyle=section,%
23657 tocindent=3.8em,%
23658 tocnnumwidth=3.2em%
23659 ]{subsection}
23660 \DeclareSectionCommand[%
23661 style=section,%
23662 level=3,%
23663 indent=\z@,%
23664 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23665 afterskip=1.5ex \@plus .2ex,%
23666 tocstyle=section,%
23667 tocindent=7.0em,%
23668 tocnnumwidth=4.1em%
23669 ]{subsubsection}
23670 \DeclareSectionCommand[%
23671 style=section,%
23672 level=4,%
23673 indent=\z@,%
23674 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23675 afterskip=-1em,%
23676 tocindentfollows=subsubsection,%
23677 tocstyle=section,%
23678 tocindent=10em,%
23679 tocnnumwidth=5em%
23680 ]{paragraph}
23681 \DeclareSectionCommand[%
23682 style=section,%
23683 level=5,%
23684 indent=\scr@parindent,%
23685 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23686 afterskip=-1em,%
23687 tocstyle=section,%
23688 tocindent=12em,%
23689 tocnnumwidth=6em%
23690 ]{subparagraph}

```

144 File sidecap-xetex-bidi.def

```

23691 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23692 \RequirePackage{ragged2e}
23693 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23694   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {#2}\hspace{\sidecaptionsep}{#1}\else%
23695   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {#1}\hspace{\sidecaptionsep}{#2}\fi}
23696 \renewcommand*{\SC@justify@caption}{\if@RTL%
23697 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23698   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
23699
23700 \@ifpackagewith{sidecap}{innercaption}{%
23701 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23702   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {#1}\hspace{\sidecaptionsep}{#2}}
23703 \renewcommand*{\SC@justify@caption}{%
23704   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else

```



```

23705 \renewcommand*{\SC@FLOAT}[2]{%
23706   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {#2}\hspace{\sidecaptionsep}{#1}}
23707 \renewcommand*{\SC@justify@caption{%
23708   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23709 }{}
23710
23711 \@ifpackagewith{sidecap}{rightcaption}{%
23712   \if@RTL\renewcommand*{\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
23713   \def\SC@justify@caption{\RaggedLeft}\else%
23714   \renewcommand*{\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
23715   \def\SC@justify@caption{\RaggedRight}\fi%
23716 }{}
23717
23718 \@ifpackagewith{sidecap}{leftcaption}{%
23719   \if@RTL \renewcommand*{\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
23720   \def\SC@justify@caption{\RaggedRight}\else%
23721   \renewcommand*{\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
23722   \def\SC@justify@caption{\RaggedLeft}\fi%
23723 }{}

```

145 File soul-xetex-bidi.def

```

23724 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23725 \long\def\SOUL@start#1{%
23726   \let\bidi@RTL@everypar\@empty
23727   \let\<\SOUL@lowerthan
23728   \let\>\empty
23729   \def\soulomit{\noexpand\soulomit}%
23730   \gdef\SOUL@eventuallyexhyphen##1{%
23731     \let\SOUL@soeventuallyskip\relax
23732     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
23733       \@minus\fontdimen4\font
23734     \SOUL@ignorespacesfalse
23735     \leavevmode
23736     \SOUL@preamble
23737     \SOUL@lasttoken={}%
23738     \SOUL@word={}%
23739     \SOUL@minus\z@
23740     \SOUL@comma\z@
23741     \SOUL@apo\z@
23742     \SOUL@grave\z@
23743     \SOUL@do{#1}%
23744     \SOUL@postamble
23745 }}
23746 \def\SOUL@ulunderline#1{%
23747   \setbox\z@\hbox{#1}%
23748   \dimen@=\wd\z@
23749   \dimen@i=\SOUL@uloverlap
23750   \advance\dimen@2\dimen@i
23751   \if@RTL
23752     \unhcopy\z@
23753     \llap{%
23754       \null
23755       \kern-\dimen@i

```



```

23756     \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23757   }%
23758   \else
23759   \rlap{%
23760     \null
23761     \kern-\dimen@i
23762     \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23763   }%
23764   \unhcopy\z@
23765   \fi
23766 }}
23767 \def\bidi@SOUL@ulleaders{%
23768   \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule@depth\SOUL@uldp@height\SOUL@ulht}\hss}\vrule@width\z@}
23769 }
23770 \def\SOUL@uleveryspace#1{%
23771   \if@RTL
23772   #1%
23773   \bidi@SOUL@ulleaders
23774   \hskip\spaceskip
23775   \else
23776   \SOUL@ulcolor{%
23777     #1%
23778     \SOUL@ulleaders
23779     \hskip\spaceskip
23780   }%
23781   \fi
23782   \null
23783 }

```

146 File stabular-xetex-bidi.def

```

23784 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23785 \def\@stabular{%
23786   \leavevmode \bgroup \if@RTLtab\beginR \fi
23787   \let\@acol\@tabacol
23788   \let\@classz\@tabclassz
23789   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23790 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23791   \egroup \if@RTLtab\endR\fi\egroup}
23792 \expandafter \let \csname endstabular*\endcsname = \endstabular
23793 \def\@sarray[#1]#2{%
23794   \bgroup
23795   \setbox\@arstrutbox\hbox{%
23796     \vrule \@height\arraystretch\ht\strutbox
23797     \@depth\arraystretch \dp\strutbox
23798     \@width\z@}%
23799   \@mkpream{#2}%
23800   \edef\@preamble{%
23801     \ialign \noexpand\@halignto
23802     \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23803   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23804   \let\@tabularnewline\%
23805   \let\@sharp##%
23806   \set@typeset@protect

```



```

23807 \lineskip\z@skip\baselineskip\z@skip
23808 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23809 \@preamble}

```

147 File subfigure-xetex-bidi.def

```

23810 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23811 \AtBeginDocument{%
23812 \let\p@subfigure=\thefigure
23813 \let\p@subtable=\thetable%
23814 }

```

148 File tabs-xetex-bidi.def

```

23815 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23816 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23817
23818 \expandafter\let\csname endtabular*\endcsname=\endtabular
23819
23820 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23821 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23822 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23823
23824 \def\@array[#1]#2{% remember global variables to allow recursion:
23825 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23826 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23827 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23828 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23829 \else \let\@tarlinesep\tablinese \fi
23830 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23831 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23832 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23833 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23834 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
23835 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23836 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23837 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23838 \let\protect\noexpand
23839 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23840 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23841 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23842 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23843 \bgroup \let\par\@empty
23844 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23845 \advance\extrarulesep.5\arrayrulewidth
23846 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23847 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23848 \@preamble}

```

149 File tabularx-xetex-bidi.def

```

23849 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
23850 \def\TX@endtabularx{%
23851 \expandafter\expandafter\expandafter

```



```

23852 \TX@find@endtabularxa\csname end\TX@\endcsname
23853 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23854 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
23855 \let\verb\TX@verb
23856 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23857 \edef\TX@ckpt{\cl@ckpt}%
23858 \let\@elt\relax
23859 \TX@old@table\maxdimen
23860 \TX@col@width\TX@target
23861 \global\TX@cols\@ne
23862 \TX@typeout@
23863 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23864 \TX@trial{\def\NC@rewriteX{%
23865 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23866 \loop
23867 \TX@arith
23868 \ifTX@
23869 \TX@trial{%
23870 \repeat
23871 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23872 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23873 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23874 \csname tabular*\expandafter\endcsname\expandafter\TX@target
23875 \the\toks@
23876 \csname endtabular*\endcsname}%
23877 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23878 \ifnum0=\fi}%
23879 \expandafter\expandafter\expandafter
23880 \TX@find@endtabularxbb
23881 \expandafter\end\expandafter{\TX@}%
23882 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23883 }
23884
23885 \def\TX@trial#1{%
23886 \setbox\@tempboxa\hbox{%
23887 #1\relax
23888 \let\@footnotetext\TX@trial@ftn
23889 \let\@LTRfootnotetext\TX@trial@ftn
23890 \let\@RTLfootnotetext\TX@trial@ftn
23891 \let\TX@vwarn\@empty
23892 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23893 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23894 \def\write{\begingroup
23895 \def\let{\afterassignment\endgroup\toks@}%
23896 \afterassignment\let\count@}%
23897 \hbadness\@M
23898 \hfuzz\maxdimen
23899 \let\hbadness\@tempcnta
23900 \let\hfuzz\@tempdima
23901 \expandafter\tabular\the\toks@
23902 \endtabular}%
23903 \TX@ckpt
23904 \TX@typeout@{\@spaces
23905 \expandafter\TX@align

```




```

23906         \the\wd\@tempboxa\space\space\space\space\space\@@
23907     \expandafter\TX@align
23908         \the\TX@col@width\space\space\space\space\space\@@
23909     \@spaces\the\TX@cols}}
23910
23911 \long\def\TX@LTRftntext#1{%
23912     \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23913         [\the\csname c@\@mpfn\endcsname]}%
23914     \global\TX@ftn\expandafter{\@tempa{#1}}}%
23915 \long\def\TX@xLTRftntext[#1]#2{%
23916     \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23917
23918 \long\def\TX@RTLftntext#1{%
23919     \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23920         [\the\csname c@\@mpfn\endcsname]}%
23921     \global\TX@ftn\expandafter{\@tempa{#1}}}%
23922 \long\def\TX@xRTLftntext[#1]#2{%
23923     \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

150 File tabulary-xetex-bidi.def

```

23924 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23925 \def\@testpach{\@chclass
23926     \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23927     \ifnum \@lastchclass=7 5 \else
23928     \ifnum \@lastchclass=8 \tw@ \else
23929     \ifnum \@lastchclass=9 \thr@@
23930     \else \z@
23931     \ifnum \@lastchclass = 10 \else
23932     \edef\@nextchar{\expandafter\string\@nextchar}%
23933     \@chnum
23934     \if \@nextchar c\z@ \else
23935     \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23936     \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
23937     \if \@nextchar C7 \else
23938     \if \@nextchar L8 \else
23939     \if \@nextchar R9 \else
23940     \if \@nextchar J10 \else
23941     \z@ \@chclass
23942     \if \@nextchar |\@ne \else
23943     \if \@nextchar !6 \else
23944     \if \@nextchar @7 \else
23945     \if \@nextchar <8 \else
23946     \if \@nextchar >9 \else
23947     10
23948     \@chnum
23949     \if \@nextchar m\thr@@\else
23950     \if \@nextchar p4 \else
23951     \if \@nextchar b5 \else
23952     \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
23953     \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

151 File tc-xetex-bidi.def



```

23954 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
23955 \def\@cliptoboxdim#1{%
23956   \setbox#1=\hbox{%
23957     \Gin@defaultbp\WIDTH{\wd#1}%
23958     \Gin@defaultbp\DEPTH{\dp#1}%
23959     \@tempdima\ht#1%
23960     \advance\@tempdima\dp#1%
23961     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23962     \beginL\special{pdf:bcontent }%
23963     \special{%
23964       pdf:literal direct
23965         0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23966     }%
23967     \special{pdf:literal direct W }%
23968     \special{pdf:literal direct n }%
23969     \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23970     \special{pdf:econtent }\endL%
23971   }%
23972 }

```

152 File tcolorbox-xetex-bidi.def

```

23973 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
23974 \let\endtcblrbox=\endminipage
23975 \let\endtcbsavebox=\endtcblrbox
23976
23977 \bidi@patchcmd{\tcb@vbox}{%
23978   \let\@footnotetext\@mpfootnotetext%
23979 }{%
23980   \let\@footnotetext\@mpfootnotetext%
23981   \let\@LTRfootnotetext\@mpLTRfootnotetext%
23982   \let\@RTLfootnotetext\@mpRTLfootnotetext%
23983 }{}{}
23984
23985 \bidi@patchcmd{\endtcbsavebox}{%
23986   \footnoterule%
23987 }{%
23988   \bidi@mpfootnoterule%
23989 }{}{}
23990 \bidi@apptocmd\tcb@icolorbox{%
23991   \@bidi@list@minipage@parboxfalse
23992 }{}{}

```

153 File titlesec-xetex-bidi.def

```

23993 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
23994 \renewcommand\filright{%
23995   \gdef\ttl@filleft##1{\hskip##1}%
23996   \gdef\ttl@filright##1{\hfill}%
23997   \let\@centercr
23998   \advance\rightskip\z@ \@plus 1fil
23999 \parfillskip\z@}
24000 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
24001   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%

```



```

24002 \setlength\leftskip{#6}%
24003 \setlength\rightskip{#7}%
24004 \interlinepenalty\@M
24005 \ttl@changecentercr
24006 \ttl@beginlongest
24007 #1{\ifhmode\ttl@hmode@error\fi
24008   \ttl@glcmds
24009   \parindent\z@
24010   \leavevmode
24011   \begingroup
24012     \ifttl@label
24013       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24014       \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24015       \llap{\box\z@}%
24016     \fi
24017     #4{#8}%
24018     \kern\z@\strut\@par
24019   \endgroup
24020   \nobreak\ttl@midlongest#5\@par}%
24021 \ttl@endlongest}

```

154 File `titletoc-xetex-bidi.def`

```

24022 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24023 \renewcommand\filright{%
24024   \gdef\ttl@filleft##1{\hskip##1}%
24025   \gdef\ttl@filright##1{\hfill}%
24026   \let\\\@centercr
24027   \advance\rightskip\z@ \@plus 1fil
24028   \parfillskip\z@}
24029 \renewcommand\contentspush[1]{%
24030   \sbox\z@{#1}%
24031   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
24032   \aftergroup\ttl@b
24033   \leavevmode\llap{\box\z@}}
24034 \def\ttl@outnoblock#1#2#3{%
24035   \begingroup
24036   \ifnum\ttl@b>\ttl@a
24037     \nobreak
24038   \else\ifnum\ttl@b<\ttl@a
24039     \addpenalty{\@secpenalty}%
24040   \else
24041     \addpenalty{\z@}%
24042   \fi\fi
24043   \ttl@contentsstretch
24044   \nobreak
24045   \ifcase#1\relax\else\interlinepenalty\@M\fi
24046   \parindent\z@
24047   \ifx\@nil#2%
24048     \PackageError{titletoc}{Unimplemented}%
24049     {The optional argument is currently mandatory}%
24050   \else
24051     \if@RTL\setlength\rightskip{#2}\else
24052     \setlength\leftskip{#2}\fi%

```



```

24053 \fi
24054 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24055 \let\contentsmargin\ttl@margin
24056 \def\ttl@makeline##1{##1}%
24057 #3%
24058 \addtolength{\parfillskip}{-\ttl@corr}%
24059 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24060 \let\ttl@leaders\leaders}
24061 \renewcommand\ttl@margin[2][\z@]{%
24062 \def\ttl@corr{#1}%
24063 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24064 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24065 \def\@pnumwidth{#2}}
24066 \let\ttl@savel@part\l@part
24067 \def\l@part{\ttl@lselect{part}}
24068
24069 \let\ttl@savel@chapter\l@chapter
24070 \def\l@chapter{\ttl@lselect{chapter}}

```

155 File tocbibind-xetex-bidi.def

```

24071 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24072 \IfClassLoadedT{memoir}{\endinput}
24073 \if@dotocbib
24074 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24075 \renewcommand{\bibsection}{\tcb@bchapsec}
24076 \renewenvironment{thebibliography}[1]{%
24077 \bibsection
24078 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
24079 \renewenvironment{thebibitemlist}[1]{
24080 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
24081 \bidi@@thebibliography@font@hook%
24082 \list{\@biblabel{\@arabic\c@enumiv}}%
24083 {\settowidth\labelwidth{\@biblabel{#1}}%
24084 \leftmargin\labelwidth
24085 \advance\leftmargin\labelsep
24086 \@openbib@code
24087 \usecounter{enumiv}%
24088 \let\p@enumiv\@empty
24089 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
24090 \sloppy
24091 \clubpenalty4000
24092 \@clubpenalty \clubpenalty
24093 \widowpenalty4000%
24094 \sfcode`\.\@m}
24095 {\def\@noitemerr
24096 {\@latex@warning{Empty `thebibliography' environment}}%
24097 \endlist}
24098
24099 \ApplyPatchCodeToPackage{chapterbib}{%
24100 \ifpackagewith{chapterbib}{sectionbib}%
24101 {\renewcommand{\sectionbib}[2]{}%
24102 {}%
24103 }

```



```

24104
24105 \fi
24106 \if@inltxdoc\else
24107   \renewenvironment{theindex}%
24108     {\if@twocolumn
24109       \@restonecolfalse
24110       \else
24111         \@restonecoltrue
24112       \fi
24113     \if@bibchapter
24114       \if@donumindex
24115         \refstepcounter{chapter}
24116         \twocolumn[\vspace*{2\topskip}%
24117           \@makechapterhead{\indexname}]%
24118         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24119         \chaptermark{\indexname}
24120       \else
24121         \if@dotocind
24122           \twocolumn[\vspace*{2\topskip}%
24123             \@makeschapterhead{\indexname}]%
24124           \prw@mkboth{\indexname}
24125           \addcontentsline{toc}{chapter}{\indexname}
24126         \else
24127           \twocolumn[\vspace*{2\topskip}%
24128             \@makeschapterhead{\indexname}]%
24129           \prw@mkboth{\indexname}
24130         \fi
24131       \fi
24132     \else
24133       \if@donumindex
24134         \twocolumn[\vspace*{-1.5\topskip}%
24135           \@nameuse{\@tocextra}{\indexname}]%
24136         \csname \@tocextra mark\endcsname{\indexname}
24137       \else
24138         \if@dotocind
24139           \twocolumn[\vspace*{-1.5\topskip}%
24140             \toc@headstar{\@tocextra}{\indexname}]%
24141           \prw@mkboth{\indexname}
24142           \addcontentsline{toc}{\@tocextra}{\indexname}
24143         \else
24144           \twocolumn[\vspace*{-1.5\topskip}%
24145             \toc@headstar{\@tocextra}{\indexname}]%
24146           \prw@mkboth{\indexname}
24147         \fi
24148       \fi
24149     \fi
24150     \thispagestyle{plain}\parindent\z@
24151     \parskip\z@ \@plus .3\p@\relax
24152     \let\item\@idxitem}
24153   {\if@restonecol\onecolumn\else\clearpage\fi}
24154 \fi

```

156 File `tocloft-xetex-bidi.def`



```

24155 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24156 \IfClassLoadedT{memoir}{\endinput}
24157 \renewcommand{\cftpnualign}{\if@RTL l\else r\fi}
24158 \let\cftdot\@SepMark
24159 \if@cfthaspart
24160 \renewcommand*{\l@part}[2]{
24161   \@cftdopartfalse
24162   \ifnum \c@tocdepth >-2\relax
24163     \if@cfthaschapter
24164       \@cftdoparttrue
24165     \fi
24166     \ifnum \c@tocdepth >\m@ne
24167       \if@cfthaschapter\else
24168         \@cftdoparttrue
24169       \fi
24170     \fi
24171   \fi
24172   \if@cftdopart
24173     \if@cfthaschapter
24174       \addpenalty{-\@highpenalty}
24175     \else
24176       \addpenalty\@secpenalty
24177     \fi
24178     \addvspace{\cftbeforepartskip}
24179     \begingroup
24180     {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24181     \if@RTL\leftskip\else\rightskip\fi \@tocmarg
24182     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24183     \parindent \cftpartindent\relax\@afterindenttrue
24184     \interlinepenalty\@M
24185     \leavevmode
24186     \@tempdima \cftpartnumwidth\relax
24187     \let\@cftbsnum \cftpartpresnum
24188     \let\@cftasnum \cftpartaftersnum
24189     \let\@cftasnumb \cftpartaftersnumb
24190     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24191     {\cftpartfont \cftpartpresnum #1}
24192     \cftpartfillnum{#2}}
24193     \nobreak
24194     \if@cfthaschapter
24195       \global\@nobreaktrue
24196       \everypar{\global\@nobreakfalse\everypar{}}
24197     \else
24198       \if@compatibility
24199         \global\@nobreaktrue
24200         \everypar{\global\@nobreakfalse\everypar{}}
24201       \fi
24202     \fi
24203   \endgroup
24204 \fi}
24205 \fi
24206 \if@cfthaschapter
24207 \renewcommand*{\l@chapter}[2]{
24208   \ifnum \c@tocdepth >\m@ne

```



```

24209 \addpenalty{-\@highpenalty}
24210 \vskip \cftbeforechapskip
24211 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24212 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24213 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24214 \parindent \cftchapindent\relax\@afterindenttrue
24215 \interlinepenalty\@M
24216 \leavevmode
24217 \@tempdima \cftchapnumwidth\relax
24218 \let\@cftbsnum \cftchappresnum
24219 \let\@cftasnum \cftchapaftersnum
24220 \let\@cftasnumb \cftchapaftersnumb
24221 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24222 {\cftchapfont #1}\nobreak
24223 \cftchapfillnum{#2}}
24224 \fi}
24225 \fi
24226 \renewcommand*\l@section}[2]{%
24227 \ifnum \c@tocdepth >\z@
24228 \if@cfthaschapter
24229 \vskip \cftbeforesecskip
24230 \else
24231 \addpenalty\@secpenalty
24232 \addvspace{\cftbeforesecskip}
24233 \fi
24234 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24235 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24236 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24237 \parindent \cftsecindent\relax\@afterindenttrue
24238 \interlinepenalty\@M
24239 \leavevmode
24240 \@tempdima \cftsecnumwidth\relax
24241 \let\@cftbsnum \cftsecpresnum
24242 \let\@cftasnum \cftsecaftersnum
24243 \let\@cftasnumb \cftsecaftersnumb
24244 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24245 {\cftsecfont #1}\nobreak
24246 \cftsecfillnum{#2}}
24247 \fi}
24248 \renewcommand*\l@subsection}[2]{%
24249 \ifnum \c@tocdepth >\@ne
24250 \vskip \cftbeforesubsecskip
24251 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
24252 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24253 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24254 \parindent \cftsubsecindent\relax\@afterindenttrue
24255 \interlinepenalty\@M
24256 \leavevmode
24257 \@tempdima \cftsubsecnumwidth\relax
24258 \let\@cftbsnum \cftsubsecpresnum
24259 \let\@cftasnum \cftsubsecaftersnum
24260 \let\@cftasnumb \cftsubsecaftersnumb
24261 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24262 {\cftsubsecfont #1}\nobreak

```



```

24263     \cftsubsecfillnum{#2}}
24264 \fi}
24265 \renewcommand*\l@subsubsection}[2]{%
24266   \ifnum \c@tocdepth >\tw@
24267     \vskip \cftbeforesubsubsecskip
24268     {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
24269     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24270     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24271     \parindent \cftsubsubsecindent\relax\@afterindenttrue
24272     \interlinepenalty\@M
24273     \leavevmode
24274     \@tempdima \cftsubsubsecnumwidth\relax
24275     \let\@cftbsnum \cftsubsubsecpresnum
24276     \let\@cftasnum \cftsubsubsecaftersnum
24277     \let\@cftasnumb \cftsubsubsecaftersnumb
24278     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24279     {\cftsubsubsecfont #1}\nobreak
24280     \cftsubsubsecfillnum{#2}}
24281 \fi}
24282 \renewcommand*\l@paragraph}[2]{%
24283   \ifnum \c@tocdepth >3\relax
24284     \vskip \cftbeforeparaskip
24285     {\if@RTL\righskip\else\leftskip\fi \cftparindent\relax
24286     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24287     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24288     \parindent \cftparindent\relax\@afterindenttrue
24289     \interlinepenalty\@M
24290     \leavevmode
24291     \@tempdima \cftparanumwidth\relax
24292     \let\@cftbsnum \cftparapresnum
24293     \let\@cftasnum \cftparaaftersnum
24294     \let\@cftasnumb \cftparaaftersnumb
24295     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24296     {\cftparafont #1}\nobreak
24297     \cftparafillnum{#2}}
24298 \fi}
24299 \renewcommand*\l@subparagraph}[2]{%
24300   \ifnum \c@tocdepth >4\relax
24301     \vskip \cftbeforesubparaskip
24302     {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
24303     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24304     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24305     \parindent \cftsubparaindent\relax\@afterindenttrue
24306     \interlinepenalty\@M
24307     \leavevmode
24308     \@tempdima \cftsubparanumwidth\relax
24309     \let\@cftbsnum \cftsubparapresnum
24310     \let\@cftasnum \cftsubparaaftersnum
24311     \let\@cftasnumb \cftsubparaaftersnumb
24312     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24313     {\cftsubparafont #1}\nobreak
24314     \cftsubparafillnum{#2}}
24315 \fi}
24316 \renewcommand*\l@figure}[2]{%

```




```

24317 \ifnum \c@lofdepth >\z@
24318   \vskip \cftbeforefigskip
24319   {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
24320   \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24321   \parfillskip -\if@RTL\leftskip\else\righskip\fi
24322   \parindent \cftfigindent\relax\@afterindenttrue
24323   \interlinepenalty\@M
24324   \leavevmode
24325   \@tempdima \cftfignumwidth\relax
24326   \let\@cftbsnum \cftfigpresnum
24327   \let\@cftasnum \cftfigaftersnum
24328   \let\@cftasnumb \cftfigaftersnumb
24329   \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24330   {\cftfigfont #1}\nobreak
24331   \cftfigfillnum{#2}}
24332 \fi
24333 }
24334 \renewcommand*\l@table}[2]{%
24335 \ifnum\c@lotdepth >\z@
24336   \vskip \cftbeforetabskip
24337   {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
24338   \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24339   \parfillskip -\if@RTL\leftskip\else\righskip\fi
24340   \parindent \cfttabindent\relax\@afterindenttrue
24341   \interlinepenalty\@M
24342   \leavevmode
24343   \@tempdima \cfttabnumwidth\relax
24344   \let\@cftbsnum \cfttabpresnum
24345   \let\@cftasnum \cfttabaftersnum
24346   \let\@cftasnumb \cfttabaftersnumb
24347   \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24348   {\cfttabfont #1}\nobreak
24349   \cfttabfillnum{#2}}
24350 \fi
24351 }
24352 \renewcommand{\@cftl@subfig}{
24353 \renewcommand*\l@subfigure}[2]{%
24354 \ifnum \c@lofdepth > \toclevel@subfigure
24355   \vskip \cftbeforesubfigskip
24356   {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
24357   \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24358   \parfillskip -\if@RTL\leftskip\else\righskip\fi
24359   \parindent \cftsubfigindent\relax\@afterindenttrue
24360   \interlinepenalty\@M
24361   \leavevmode
24362   \@tempdima \cftsubfignumwidth\relax
24363   \let\@cftbsnum \cftsubfigpresnum
24364   \let\@cftasnum \cftsubfigaftersnum
24365   \let\@cftasnumb \cftsubfigaftersnumb
24366   \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24367   {\cftsubfigfont ##1}\nobreak
24368   \cftsubfigfillnum{##2}}
24369 \fi
24370 }

```



```

24371 }
24372 \renewcommand{\@cftl@subtab}{
24373 \renewcommand*\l@subtable}[2]{%
24374 \ifnum \c@lotdepth > \toclevel@subtable
24375 \vskip \cftbeforesubtabskip
24376 {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
24377 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24378 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24379 \parindent \cftsubtabindent\relax\@afterindenttrue
24380 \interlinepenalty\@M
24381 \leavevmode
24382 \@tempdima \cftsubtabnumwidth\relax
24383 \let\@cftbsnum \cftsubtabpresnum
24384 \let\@cftasnum \cftsubtabaftersnum
24385 \let\@cftasnumb \cftsubtabaftersnumb
24386 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24387 {\cftsubtabfont ##1}\nobreak
24388 \cftsubtabfillnum{##2}}
24389 \fi
24390 }
24391 }
24392 \renewcommand{\newlistentry}[4][\@empty]{%
24393 \@ifundefined{c@#2}{% check & set the counter
24394 \ifx \@empty#1\relax
24395 \newcounter{#2}
24396 \else
24397 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
24398 {#1 has no counter for use as a `within'}
24399 \newcounter{#2}}%
24400 {\newcounter{#2}[#1}%
24401 \expandafter\edef\csname the#2\endcsname{%
24402 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}
24403 \fi
24404 \setcounter{#2}{0}
24405 }
24406 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24407
24408 \@namedef{l@#2}##1##2{%
24409 \ifnum \@nameuse{c@#3depth} > #4\relax
24410 \vskip \@nameuse{cftbefore#2skip}
24411 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24412 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24413 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24414 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24415 \interlinepenalty\@M
24416 \leavevmode
24417 \@tempdima \@nameuse{cft#2numwidth}\relax
24418 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24419 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24420 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24421 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24422 {\@nameuse{cft#2font}##1}\nobreak
24423 \@nameuse{cft#2fillnum}{##2}}
24424 \fi

```



```

24425 } % end of \l@#2
24426
24427 \expandafter\newlength\csname cftbefore#2skip\endcsname
24428 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24429 \expandafter\newlength\csname cft#2indent\endcsname
24430 \expandafter\newlength\csname cft#2numwidth\endcsname
24431 \ifcase #4\relax % 0
24432 \setlength{\@nameuse{cft#2indent}}{0em}
24433 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24434 \or % 1
24435 \setlength{\@nameuse{cft#2indent}}{1.5em}
24436 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24437 \or % 2
24438 \setlength{\@nameuse{cft#2indent}}{3.8em}
24439 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24440 \or % 3
24441 \setlength{\@nameuse{cft#2indent}}{7.0em}
24442 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24443 \else % anything else
24444 \setlength{\@nameuse{cft#2indent}}{10.0em}
24445 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24446 \fi
24447 \@namedef{cft#2font}{\normalfont}
24448 \@namedef{cft#2presnum}{}
24449 \@namedef{cft#2aftersnum}{}
24450 \@namedef{cft#2aftersnumb}{}
24451 \@namedef{cft#2dotsep}{\cftdotsep}
24452 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24453 \@namedef{cft#2pagefont}{\normalfont}
24454 \@namedef{cft#2afterpnum}{}
24455 \@namedef{toclevel@#2}{#4}
24456 \@namedef{cft#2fillnum}##1{%
24457 {\@nameuse{cft#2leader}}\nobreak
24458 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24459 } % end \newlistentry
24460 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24461 {\ifRTL\rightskip\else\leftskip\fi \cftchapindent\relax
24462 \advance\ifRTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24463 \ifRTL\leftskip\else\rightskip\fi \@tocmarg\relax
24464 \textit{#1}\protect\par}}}

```

157 File tocbasic-xetex-bidi.def

```

24465 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24466 \bidi@undef\scr@dte@def@1@undottedtocline
24467 \bidi@undef\scr@dte@undottedtocline@init
24468 \DeclareTOCEntryStyle{undottedtocline}{%
24469 \DefineTOCEntryLengthOption{indent}%
24470 {\scr@tso@}{@indent}{entry indent}%
24471 \DefineTOCEntryLengthOption{numwidth}%
24472 {\scr@tso@}{@numwidth}{entry number width}%
24473 \@ifundefined{#1tocdepth}{%
24474 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24475 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%

```



```

24476 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24477 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24478 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24479 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24480 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24481 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24482 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24483 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24484 \csname #1numdepth\endcsname
24485 }%
24486 }%
24487 }%
24488 }%
24489 }%
24490 }%
24491 }%
24492 }%
24493 }%
24494 }{}%
24495 \@ifundefined{scr@tso@#1@indent}{%
24496 \@ifundefined{scr@#1@tocindent}{%
24497 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24498 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24499 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24500 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24501 \scr@ifundefinedorrelax{1@chapter}{%
24502 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24503 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24504 \Ifstr{#1}{subsubsection}{%
24505 \@namedef{scr@tso@#1@indent}{3.8em}}%
24506 }{}%
24507 \Ifstr{#1}{paragraph}{%
24508 \@namedef{scr@tso@#1@indent}{7em}}%
24509 }{}%
24510 \Ifstr{#1}{subparagraph}{%
24511 \@namedef{scr@tso@#1@indent}{10em}}%
24512 }{}%
24513 }%
24514 }%
24515 }%
24516 }%
24517 }%
24518 }{}%
24519 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24520 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24521 \Ifstr{#1}{subsubsection}{%
24522 \@namedef{scr@tso@#1@indent}{7.0em}}%
24523 }{}%
24524 \Ifstr{#1}{paragraph}{%
24525 \@namedef{scr@tso@#1@indent}{10em}}%
24526 }{}%
24527 \Ifstr{#1}{subparagraph}{%
24528 \@namedef{scr@tso@#1@indent}{12em}}%
24529 }{}%

```



```

24530         }%
24531     }%
24532 }%
24533     }%
24534 }%
24535     }%
24536 }%
24537     }%
24538 }%
24539     }%
24540 }-%
24541     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24542     }%
24543 }-%
24544 \ifundefined{scr@tso@#1@numwidth}{%
24545     \ifundefined{scr@#1@tocnumwidth}{%
24546         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24547             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24548                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24549                     \scr@ifundefinedorrelax{chapter}{%
24550                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24551                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24552                                 \Ifstr{#1}{subsubsection}{%
24553                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
24554                                 }-%
24555                                 \Ifstr{#1}{paragraph}{%
24556                                     \@namedef{scr@tso@#1@numwidth}{4.1em}%
24557                                 }-%
24558                                 \Ifstr{#1}{subparagraph}{%
24559                                     \@namedef{scr@tso@#1@numwidth}{5m}%
24560                                 }-%
24561                                 }%
24562                             }%
24563                         }%
24564                     }%
24565                 }%
24566             }-%
24567             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24568                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24569                     \Ifstr{#1}{subsubsection}{%
24570                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
24571                     }-%
24572                     \Ifstr{#1}{paragraph}{%
24573                         \@namedef{scr@tso@#1@numwidth}{5em}%
24574                     }-%
24575                     \Ifstr{#1}{subparagraph}{%
24576                         \@namedef{scr@tso@#1@numwidth}{6em}%
24577                     }-%
24578                     }%
24579                 }%
24580             }%
24581         }%
24582     }%
24583 }%

```



```

24584     }%
24585   }%
24586 }%
24587 }{%
24588   \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24589 }%
24590 }{%
24591 }]{%
24592 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24593   \ifnum \@nameuse{#1tocdepth}<\@ne
24594     \scr@ifundefinedorrelax{chapter}{%
24595       \addpenalty\@secpenalty
24596       \addvspace{1.0em \@plus\p@}%
24597     }{%
24598       \addpenalty{-\@highpenalty}%
24599       \vskip 1.0em \@plus\p@
24600     }%
24601   \else
24602     \addpenalty\@secpenalty
24603     \addvspace{1.0em \@plus\p@}%
24604   \fi
24605   \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24606   \begingroup
24607     \parindent \z@ \bidi@rightskip \@pnumwidth
24608     \parfillskip -\@pnumwidth
24609     \leavevmode
24610     \bfseries
24611     \advance\bidi@leftskip\@tempdima
24612     \IfTOCfeature{\@current}{noindent}{%
24613       \hskip -\bidi@leftskip
24614     }{%
24615       \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24616       \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24617     }%
24618     ##1%
24619     \nobreak
24620     \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24621     \par
24622     \penalty\@highpenalty
24623   \endgroup
24624 \fi
24625 }
24626
24627 \bidi@undef\scr@dte@def@l@targetocline
24628 \bidi@undef\scr@dte@targetocline@init
24629 \DeclareTOCEntryStyle{largetocline}[{%
24630   \DefineTOCEntryLengthOption{indent}%
24631   {scr@tso@}{@indent}{entry indent}%
24632   \@ifundefined{#1tocdepth}{%
24633     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24634       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24635         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24636           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24637             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%

```



```

24638     \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24639     \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24640     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24641     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24642     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24643     \csname #1numdepth\endcsname
24644     }%
24645     }%
24646     }%
24647     }%
24648     }%
24649     }%
24650     }%
24651     }%
24652     }%
24653 }{}%
24654 \@ifundefined{scr@tso@#1@indent}{%
24655 \ifundefined{scr@#1@tocindent}{%
24656 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24657 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24658 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24659 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24660 \scr@ifundefinedorrelax{1@chapter}{%
24661 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24662 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24663 \Ifstr{#1}{subsubsection}{%
24664 \@namedef{scr@tso@#1@indent}{3.8em}}%
24665 }{%
24666 \Ifstr{#1}{paragraph}{%
24667 \@namedef{scr@tso@#1@indent}{7em}}%
24668 }{%
24669 \Ifstr{#1}{subparagraph}{%
24670 \@namedef{scr@tso@#1@indent}{10em}}%
24671 }{%
24672 }%
24673 }%
24674 }%
24675 }%
24676 }%
24677 }{}%
24678 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24679 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24680 \Ifstr{#1}{subsubsection}{%
24681 \@namedef{scr@tso@#1@indent}{7.0em}}%
24682 }{%
24683 \Ifstr{#1}{paragraph}{%
24684 \@namedef{scr@tso@#1@indent}{10em}}%
24685 }{%
24686 \Ifstr{#1}{subparagraph}{%
24687 \@namedef{scr@tso@#1@indent}{12em}}%
24688 }{%
24689 }%
24690 }%
24691 }%

```



```

24692         }%
24693     }%
24694     }%
24695     }%
24696     }%
24697     }%
24698     }%
24699     }{%
24700     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24701     }%
24702     }{%
24703 }}{%
24704 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24705     \ifnum \@nameuse{#1tocdepth}<\@ne
24706         \scr@ifundefinedorrelax{chapter}{%
24707             \addpenalty\@secpenalty
24708             \addvspace{2.25em \@plus\p@}%
24709         }{%
24710             \addpenalty{-\@highpenalty}%
24711             \addvspace{2.25em \@plus\p@}%
24712         }%
24713     \else
24714         \addpenalty\@secpenalty
24715         \addvspace{2.25em \@plus\p@}%
24716     \fi
24717     \setlength\@tempdima{3em}%
24718     \begingroup
24719         \parindent \z@ \bidi@rightskip \@pnumwidth
24720         \parfillskip -\@pnumwidth
24721         \leavevmode
24722         \large
24723         \bfseries
24724         \Iftocfeature{\@current}{noindent}{%
24725         }{%
24726             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24727         }%
24728         ##1%
24729         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24730         \par
24731         \nobreak
24732         \ifnum 0=
24733             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24734             \global\@nobreaktrue
24735             \everypar{\global\@nobreakfalse\everypar{}}%
24736         \fi
24737     \endgroup
24738 \fi
24739 }
24740
24741 \renewcommand*{\scr@dte@tocline}[3]{%
24742     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24743     \else
24744         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24745         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax

```




```

24746 \@nameuse{Ifscr@tso@#1@dynindent}{%
24747 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
24748 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24749 \else
24750 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24751 \@for \reserved@a:=\reserved@a\do {%
24752 \scr@trim@spaces\reserved@a
24753 \ifx\reserved@a\@empty\else
24754 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24755 }{%
24756 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24757 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24758 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24759 \scr@ifundefinedorrelax
24760 {scr@dte@\reserved@a @lastmaxnumwidth}{%
24761 \advance\@tempdima
24762 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24763 }{%
24764 \advance\@tempdima
24765 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24766 }%
24767 }{%
24768 \advance\@tempdima
24769 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24770 }%
24771 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24772 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24773 {\the\@tempdima}%
24774 \fi
24775 \fi
24776 }%
24777 \fi
24778 }%
24779 \fi
24780 }{%
24781 {%
24782 \Iftocfeature{\@currentx}{noindent}{%
24783 \bidi@leftskip \z@
24784 }{%
24785 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24786 }%
24787 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24788 \parfillskip -\bidi@rightskip
24789 \@nameuse{Ifscr@tso@#1@raggedpage}{%
24790 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24791 }{%
24792 \Iftocfeature{\@currentx}{noindent}{%
24793 \parindent \z@
24794 }{%
24795 \parindent \@nameuse{scr@tso@#1@indent}\relax
24796 }%
24797 \@afterindenttrue
24798 \interlinepenalty\M
24799 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright

```



```

24800     \addtolength\ bidi@rightskip \@flushglue
24801 \else
24802     \def\reserved@a{\raggedright}%
24803     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24804     \addtolength\ bidi@rightskip \@flushglue
24805 \else
24806     \renewcommand\reserved@a{\raggedright}%
24807     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24808     \addtolength\ bidi@rightskip \@flushglue
24809     \fi
24810 \fi
24811 \fi
24812 \leavevmode
24813 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24814 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
24815     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{-%
24816     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24817     \@tempdima \@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24818     \fi
24819     }%
24820 }{-%
24821 \advance\ bidi@leftskip \@tempdima
24822 \null\nobreak\hskip -\ bidi@leftskip
24823 }%
24824 \usetocbasicnumberline
24825 \let\scr@dte@numberline@box\numberline@box
24826 \def\numberline@box##1{%
24827     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24828     \global\scr@dte@tocline@numberwidth
24829     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24830     \relax
24831     \ifdim \scr@dte@tocline@numberwidth
24832     >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24833     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24834     \fi
24835     \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{-%
24836     \ifdim \scr@dte@tocline@numberwidth
24837     >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24838     +\@nameuse{scr@tso@#1@numsep}\relax\relax
24839     \PackageWarning{tocbasic}{%
24840     number width of #1 toc entries should be
24841     increased!\MessageBreak
24842     Currently used number width =
24843     \the\wd\scr@dte@tocline@numbox,\MessageBreak
24844     Wanted number separation
24845     \space\space\space =
24846     \the\dimexpr \@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24847     Reserved number width \space\space\space\space\space =
24848     \the\dimexpr \@nameuse{scr@tso@#1@numwidth}\relax%
24849     }%
24850     \fi
24851     }%
24852     \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24853     \@nameuse{Ifscr@tso@#1@breakafternumber}{-%

```



```

24854         {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
24855     }{}%
24856 }%
24857 {\@nameuse{scr@tso@#1@entryformat}{%
24858     #2%
24859     \nobreak
24860     {%
24861         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
24862         \nobreak
24863         \expandafter\let\expandafter\scr@dte@pagenumberwidth
24864         \csname scr@tso@#1@pagenumberwidth\endcsname
24865         \@nameuse{scr@tso@#1@pagenumberbox}{%
24866             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24867         }%
24868     }%
24869 }}\@par
24870 }%
24871 }%
24872 \tocbasic@SetPenaltyByTOCLevel{#1}%
24873 \fi
24874 }
24875
24876
24877 \bidi@undef\scr@dte@def@1@tocline
24878 \bidi@undef\scr@dte@tocline@init
24879 \DeclareTOCEntryStyle{tocline}[{%
24880 \DefineTOCEntryLengthOption{beforeskip}%
24881     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24882 \DefineTOCEntryIfOption{breakafternumber}%
24883     {scr@tso@}{@breakafternumber}{line break after number flag}%
24884 \DefineTOCEntryIfOption{dynnumwidth}%
24885     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24886 \DefineTOCEntryListOption{indentfollows}%
24887     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24888 \DefineTOCEntryIfOption{dynindent}%
24889     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24890 \DefineTOCEntryCommandOption{entryformat}%
24891     {scr@tso@}{@entryformat}[1]{entry format}%
24892 \DefineTOCEntryCommandOption{entrynumberformat}%
24893     {scr@tso@}{@numberformat}[1]{entry number format}%
24894 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24895     {scr@tso@}{@linefill}{filling between text and page number}%
24896 \DefineTOCEntryLengthOption{numsep}%
24897     {scr@tso@}{@numsep}{entry number separation}%
24898 \DefineTOCEntryCommandOption{onstarthigherlevel}%
24899     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24900 \DefineTOCEntryCommandOption{onstartlowerlevel}%
24901     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24902 \DefineTOCEntryCommandOption{onstartsamelevel}%
24903     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24904 \DefineTOCEntryCommandOption{pagenumberbox}%
24905     {scr@tso@}{@pagenumberbox}[1]{page number box}%
24906 \DefineTOCEntryCommandOption{pagenumberformat}%
24907     {scr@tso@}{@pagenumberformat}[1]{page number format}%

```



```

24908 \DefineTOCEntryLengthOption{pagenumberwidth}%
24909   {scr@tso@}{@pagenumberwidth}{width of page number box}%
24910 \DefineTOCEntryLengthOption{rightindent}%
24911   {scr@tso@}{@rightindent}{entry's text right indent}%
24912 \DefineTOCEntryOption{raggedentrytext}[true]{%
24913   \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
24914   \ifx\FamilyKeyState\FamilyKeyStateProcessed
24915     \if@tempswa
24916       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24917         \raggedright
24918     \else
24919       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24920         \relax
24921     \fi
24922   \fi
24923 }%
24924 \DefineTOCEntryIfOption{raggedpagenumber}%
24925   {scr@tso@}{@raggedpage}{page number ragged flag}%
24926 \DefineTOCEntryLengthOption{indent}%
24927   {scr@tso@}{@indent}{entry indent}%
24928 \DefineTOCEntryLengthOption{numwidth}%
24929   {scr@tso@}{@numwidth}{entry number width}%
24930 \scr@ifundefinedorrelax{#1tocdepth}{%
24931   \Ifstrstart{#1}{sub}{%
24932     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24933       \expandafter\edef\csname #1tocdepth\endcsname{%
24934         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24935       }%
24936     }%
24937   }{}%
24938 }{}%
24939 \@ifundefined{#1tocdepth}{%
24940   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24941     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24942       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24943         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24944           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24945             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24946               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24947                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24948                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24949                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24950                       \csname #1numdepth\endcsname
24951                   }%
24952                 }%
24953               }%
24954             }%
24955           }%
24956         }%
24957       }%
24958     }%
24959   }%
24960 }{}%
24961 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%

```



```

24962 \ifundefined{scr@#1@tocindent}{%
24963 \Ifstrstart{#1}{sub}{%
24964 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24965 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}{%
24966 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24967 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24968 \relax
24969 }%
24970 }%
24971 }{%
24972 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24973 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24974 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24975 \relax
24976 }%
24977 }{%
24978 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24979 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24980 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24981 \relax
24982 }%
24983 }%
24984 }%
24985 }{}%
24986 }{%
24987 \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24988 }%
24989 }{}%
24990 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24991 \Ifstrstart{#1}{sub}{%
24992 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
24993 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
24994 }{%
24995 \expandafter\let
24996 \csname scr@tso@#1@pagenumberwidth\endcsname\expandafter\endcsname
24997 \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
24998 }%
24999 }{%
25000 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25001 }%
25002 }{}%
25003 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25004 \Ifstrstart{#1}{sub}{%
25005 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25006 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25007 }{%
25008 \expandafter\let
25009 \csname scr@tso@#1@rightindent\endcsname\expandafter\endcsname
25010 \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25011 }%
25012 }{%
25013 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25014 }%
25015 }{}%

```



```

25016 \@ifundefined{scr@tso@#1@indent}{%
25017   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25018     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25019       \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25020         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25021           \scr@ifundefinedorrelax{1@chapter}{%
25022             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25023               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25024                 \Ifstr{#1}{subsubsection}{%
25025                   \@namedef{scr@tso@#1@indent}{3.8em}%
25026                 }{%
25027                   \Ifstr{#1}{paragraph}{%
25028                     \@namedef{scr@tso@#1@indent}{7em}%
25029                   }{%
25030                     \Ifstr{#1}{subparagraph}{%
25031                       \@namedef{scr@tso@#1@indent}{10em}%
25032                     }{%
25033                       }%
25034                     }%
25035                   }%
25036                 }%
25037               }%
25038             }{%
25039               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25040                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25041                   \Ifstr{#1}{subsubsection}{%
25042                     \@namedef{scr@tso@#1@indent}{7.0em}%
25043                   }{%
25044                     \Ifstr{#1}{paragraph}{%
25045                       \@namedef{scr@tso@#1@indent}{10em}%
25046                     }{%
25047                       \Ifstr{#1}{subparagraph}{%
25048                         \@namedef{scr@tso@#1@indent}{12em}%
25049                       }{%
25050                         }%
25051                       }%
25052                     }%
25053                   }%
25054                 }%
25055               }%
25056             }%
25057           }%
25058         }%
25059       }%
25060     }{%
25061   \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25062     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25063       \Ifstrstart{#1}{sub}{%
25064         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
25065           \expandafter\edef\curname scr@tso@#1@numwidth\endcurname{%
25066             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25067               +.9em%
25068           }%
25069         \relax
25070       }%

```



```

25070     }%
25071   }{}%
25072   }{}%
25073     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25074   }%
25075 }{}%
25076 \@ifundefined{scr@tso@#1@numwidth}{%
25077   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25078   \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25079   \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25080     \scr@ifundefinedorrelax{chapter}{%
25081       \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25082         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25083           \Ifstr{#1}{subsubsection}{%
25084             \@namedef{scr@tso@#1@numwidth}{3.2em}%
25085           }{}%
25086           \Ifstr{#1}{paragraph}{%
25087             \@namedef{scr@tso@#1@numwidth}{4.1em}%
25088           }{}%
25089           \Ifstr{#1}{subparagraph}{%
25090             \@namedef{scr@tso@#1@numwidth}{5em}%
25091           }{}%
25092         }{}%
25093       }{}%
25094     }{}%
25095   }{}%
25096 }{}%
25097   }{}%
25098   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25099   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25100   \Ifstr{#1}{subsubsection}{%
25101     \@namedef{scr@tso@#1@numwidth}{3.1em}%
25102   }{}%
25103   \Ifstr{#1}{paragraph}{%
25104     \@namedef{scr@tso@#1@numwidth}{5em}%
25105   }{}%
25106   \Ifstr{#1}{subparagraph}{%
25107     \@namedef{scr@tso@#1@numwidth}{6em}%
25108   }{}%
25109   }{}%
25110 }{}%
25111 }{}%
25112 }{}%
25113 }{}%
25114 }{}%
25115 }{}%
25116 }{}%
25117 }{}%
25118 }{}%
25119 \expandafter\renewcommand%
25120 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25121 \expandafter\renewcommand%
25122 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25123 \expandafter\renewcommand%

```



```

25124 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25125 \@ifundefined{scr@tso@#1@beforeskip}{%
25126   \Ifstr{#1}{part}{%
25127     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25128   }{%
25129     \Ifstr{#1}{chapter}{%
25130       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25131     }{%
25132       \Ifstr{#1}{section}{%
25133         \scr@ifundefinedorrelax{1@chapter}{%
25134           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25135         }{}%
25136       }{}%
25137     }%
25138   }%
25139   \expandafter\renewcommand\expandafter*%
25140   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25141 }{}%
25142 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25143   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25144   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25145 }{}%
25146 \renewcommand*{\scr@dte@donumwidth}{%
25147   \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25148   \expandafter\renewcommand\expandafter*%
25149   \csname scr@tso@#1@numsep\endcsname{.4em}%
25150   \expandafter\renewcommand%
25151   \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25152   \Ifstr{#1}{part}{%
25153     \expandafter\providecommand%
25154     \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25155   }{%
25156     \Ifstr{#1}{chapter}{%
25157       \expandafter\providecommand%
25158       \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25159     }{%
25160       \scr@ifundefinedorrelax{1@chapter}{%
25161         \Ifstr{#1}{section}{%
25162           \expandafter\providecommand%
25163           \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25164         }{}%
25165       }{}%
25166       \expandafter\providecommand%
25167       \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25168     }%
25169   }%
25170   \expandafter\renewcommand
25171   \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25172   \@ifundefined{scr@tso@#1@linefill}{%
25173     \Ifstr{#1}{part}{%
25174       \@namedef{scr@tso@#1@linefill}{\hfill}%
25175     }{%
25176       \Ifstr{#1}{chapter}{%
25177         \@namedef{scr@tso@#1@linefill}{\hfill}%

```




```

25178 }{%
25179 \scr@ifundefinedorrelax{1@chapter}{%
25180 \Ifstr{#1}{section}{%
25181 \@namedef{scr@tso@#1@linefill}{\hfill}%
25182 }{}%
25183 }{}%
25184 \expandafter\renewcommand%
25185 \csname scr@tso@#1@linefill\endcsname{\TOCLLineLeaderFill\relax}%
25186 }%
25187 }%
25188 }{}%
25189 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname [2] {##2}%
25190 \Ifstr{#1}{part}{%
25191 \expandafter\providecommand%
25192 \csname scr@tso@#1@pagenumberformat\endcsname [1] {\large\bfseries ##1}%
25193 }{%
25194 \Ifstr{#1}{chapter}{%
25195 \expandafter\providecommand%
25196 \csname scr@tso@#1@pagenumberformat\endcsname [1] {\bfseries ##1}%
25197 }{%
25198 \scr@ifundefinedorrelax{1@chapter}{%
25199 \Ifstr{#1}{section}{%
25200 \expandafter\providecommand%
25201 \csname scr@tso@#1@pagenumberformat\endcsname [1] {\bfseries ##1}%
25202 }{}%
25203 }{}%
25204 \expandafter\providecommand%
25205 \csname scr@tso@#1@pagenumberformat\endcsname [1] {%
25206 {\normalfont\normalcolor ##1}}%
25207 }%
25208 }%
25209 \expandafter\renewcommand%
25210 \csname scr@tso@#1@pagenumberbox\endcsname [1] {%
25211 \hb@xt@\@nameuse{scr@dte@pagenumberwidth}{\hfil ##1}}%
25212 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname [2] {##2}%
25213 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname [2] {##2}%
25214 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25215 \Ifstrstart{#1}{sub}{%
25216 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25217 \scr@dte@nosub{#1}}%
25218 }%
25219 }{}%
25220 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25221 }%
25222 }{}%
25223 }{}%
25224 \scr@dte@tocline{#1}{##1}{##2}%
25225 }
25226
25227 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25228 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25229 {\normalfont\normalcolor #1}}%
25230 }%
25231 }{}

```



```

25232
25233 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25234   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25235     {\normalfont\normalcolor #1}%
25236   }%
25237 }{}
25238

```

158 File tocstyle-xetex-bidi.def

```

25239 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25240 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25241   \let\numberline\tocstyle@numberline
25242   \ifnum #1>\c@tocdepth \else
25243     \if@tocstyle@penalties
25244       \beginingroup
25245         \@tempcnta 20010
25246         \advance \@tempcnta by -#1
25247         \ifnum \@tempcnta>\lastpenalty
25248           \aftergroup\penalty\aftergroup\@lowpenalty
25249         \fi
25250       \endgroup
25251     \fi
25252     \edef\tocstyledepth{#1}%
25253     \tocstyle@activate@features
25254     \ifx\tocstyle@feature@entryvskip\relax
25255       \vskip \z@ \@plus.2\p@
25256     \else
25257       \addvspace{\tocstyle@feature@entryvskip}%
25258     \fi
25259     {%
25260       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25261       \tocstyle@feature@raggedhook
25262       \@tempdima #3\relax
25263       \@tempdimb #2\relax
25264       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25265       \ifnum #1>\z@\relax
25266         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25267         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25268           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25269             \@tempdimb
25270             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25271             \advance\@tempdimb
25272             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25273           \fi
25274         \fi
25275       \fi
25276       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25277       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25278         \ifdim \@tempdimb>
25279           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25280           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25281             @#1\endcsname{\the\@tempdimb}%
25282         \fi

```



```

25283 \else
25284 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25285 @#1\endcsname{\the\@tempdimb}%
25286 \fi
25287 \iftocstyle@autolength
25288 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25289 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25290 \relax
25291 \fi
25292 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25293 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25294 \relax
25295 \fi
25296 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25297 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25298 \else
25299 \@tempdimb #2\relax
25300 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25301 \fi
25302 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25303 \ifdim \@tempdima>
25304 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25305 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25306 @\endcsname{\the\@tempdima}%
25307 \fi
25308 \else
25309 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25310 @\endcsname{\the\@tempdima}%
25311 \fi
25312 \ifcase\tocstyle@indentstyle\relax\else
25313 \@tempdimb \z@
25314 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25315 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25316 \relax
25317 \fi
25318 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25319 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25320 \fi
25321 \advance\parindent \@tempdimb\@afterindenttrue
25322 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25323 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25324 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25325 \ifx\tocstyle@feature@parfillskip\relax\else
25326 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25327 \fi
25328 \interlinepenalty\@M
25329 \leavevmode
25330 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25331 \null\nobreak
25332 \iftocstyle@indentnotnumbered\else
25333 \hskip -\if@RTL\rightskip\else\leftskip\fi
25334 \fi
25335 \tocstyle@feature@entryhook
25336 {#4}\nobreak

```



```

25337 \ifx\tocstyle@feature@leaders\relax
25338 \leaders\hbox{\$}\m@th
25339 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25340 \mkern \@dotsep mu$\}\hfill
25341 \else
25342 \tocstyle@feature@leaders
25343 \fi
25344 \nobreak
25345 \ifx\tocstyle@feature@pagenumberbox\relax
25346 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25347 \else
25348 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25349 \fi
25350 \par
25351 }%
25352 \if\tocstyle@penalties
25353 \bgroup
25354 \@tempcnta 20009
25355 \advance\@tempcnta by -#1
25356 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25357 \reserved@a
25358 \fi
25359 \fi}
25360 \renewcommand*{\tocstyle@numberline}[1]{%
25361 \begingroup
25362 \ifx\tocstyle@feature@spaceafternumber\relax
25363 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
25364 \else
25365 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
25366 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25367 \fi
25368 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25369 \ifdim \@tempdima >
25370 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25371 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25372 @\tocstyledepth\endcsname{\the\@tempdima}%
25373 \fi
25374 \else
25375 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25376 @\tocstyledepth\endcsname{\the\@tempdima}%
25377 \fi
25378 \endgroup
25379 \iftocstyle@indentnotnumbered
25380 \hskip -\if@RTL\rightskip\else\leftskip\fi
25381 \fi
25382 \ifcase \tocstyle@indentstyle
25383 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
25384 \or
25385 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
25386 \else
25387 \ifx\tocstyle@feature@spaceafternumber\relax
25388 \hbox{\tocstyle@numberline{#1}\enskip}%
25389 \else
25390 \hbox{\tocstyle@numberline{#1}\hskip

```



```

25391         \tocstyle@feature@spaceafternumber\relax}%
25392     \fi
25393 \fi
25394 }
25395 \AtBeginDocument{%
25396   \ifcsname l@part\endcsname
25397     \ifcsname l@chapter\endcsname
25398       \setbox\@tempboxa\vbox{\hsize\maxdimen
25399         \l@part{\tocstyle@l@define{part}{-1}}{}}%
25400     \else
25401       \setbox\@tempboxa\vbox{\hsize\maxdimen
25402         \l@part{\tocstyle@l@define{part}{0}}{}}%
25403     \fi
25404 \fi
25405 \ifcsname l@chapter\endcsname
25406   \setbox\@tempboxa\vbox{\hsize\maxdimen
25407     \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25408 \fi
25409 \ifcsname l@section\endcsname
25410   \setbox\@tempboxa\vbox{\hsize\maxdimen
25411     \l@section{\tocstyle@l@define{section}{1}}{}}%
25412 \fi
25413 \ifcsname l@subsection\endcsname
25414   \setbox\@tempboxa\vbox{\hsize\maxdimen
25415     \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25416 \fi
25417 \ifcsname l@subsubsection\endcsname
25418   \setbox\@tempboxa\vbox{\hsize\maxdimen
25419     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25420 \fi
25421 \ifcsname l@paragraph\endcsname
25422   \setbox\@tempboxa\vbox{\hsize\maxdimen
25423     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25424 \fi
25425 \ifcsname l@subparagraph\endcsname
25426   \setbox\@tempboxa\vbox{\hsize\maxdimen
25427     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25428 \fi
25429 \ifcsname l@table\endcsname
25430   \setbox\@tempboxa\vbox{\hsize\maxdimen
25431     \l@table{\tocstyle@l@define{table}{1}}{}}%
25432 \fi
25433 \ifcsname l@figure\endcsname
25434   \setbox\@tempboxa\vbox{\hsize\maxdimen
25435     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25436 \fi
25437 \def\@tempa#1#2#3#4#5{%
25438   \ifnum #1>\c@tocdepth \else
25439     \vskip \z@ \@plus.2\p@
25440     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@ocr
25441     \parindent #2\relax\@afterindenttrue
25442     \interlinepenalty\@M
25443     \leavevmode
25444     \@tempdima #3\relax

```



```

25445     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25446     {#4}\nobreak
25447     \leaders\hbox{$\m@th
25448     \mkern \dotsep mu\hbox{.}\mkern \dotsep
25449     mu$}\hfill
25450     \nobreak
25451     \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25452     \par}%
25453     \fi}%
25454 \ifx@dottedtocline\@tempa\else
25455     \tocstyle@macrochangewarning@dottedtocline
25456 \fi
25457 \let\tocstyle@saved@dottedtocline@dottedtocline
25458 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25459 \ifx\numberline\@tempa\else
25460     \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25461     \ifx\numberline\@tempa\else
25462         \tocstyle@macrochangewarning\numberline
25463     \fi
25464 \fi
25465 \let\tocstyle@saved@numberline\numberline
25466 }
25467 \renewcommand*{\tocstyle@l@define}[2]{%
25468     \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
25469     \edef\@tempa{%
25470         \noexpand\global\noexpand\let
25471         \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25472         \expandafter\noexpand\csname l@#1\endcsname
25473         \noexpand\gdef
25474         \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25475             \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
25476         \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25477             \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25478             \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25479         }%
25480     }%
25481     \PackageInfo{tocstyle}{prepare \expandafter\string
25482     \csname l@#1\endcsname\space for redefinition}%
25483     \@tempa
25484 }

```

159 File todonotes-xetex-bidi.def

```

25485 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25486 \newif\if@bidi@todonotes@textdirection@RTL
25487 \newif\if@bidi@todonotes@figposition@right
25488 \newcommand{\@bidi@todonotes@align}{}%
25489 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25490 \newcommand{\@bidi@todonotes@textdirection}{}%
25491 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
25492     \ifcase\@bidi@todonotes@tempb\relax
25493         \@bidi@todonotes@textdirection@RTLtrue
25494         \let\@bidi@todonotes@textdirection\RLE
25495     \or

```



```

25496 \@bidi@todonotes@textdirection@RTLfalse
25497 \let\@bidi@todonotes@textdirection\LRE
25498 \fi}
25499 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25500 \ifcase\bidi@todonotes@tempb\relax
25501 \@bidi@todonotes@figposition@righttrue
25502 \or
25503 \@bidi@todonotes@figposition@rightfalse
25504 \fi}
25505 \if@todonotes@disabled%
25506 \else % \if@todonotes@disabled
25507 \renewcommand{\@todonotes@drawInlineNote}{%
25508 \if@todonotes@dviStyle%
25509 {\par\noindent\begin{tikzpicture}[remember picture]%
25510 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25511 \if@todonotes@authorgiven%
25512 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25513 \else%
25514 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25515 \fi
25516 {\par\noindent\begin{tikzpicture}[remember picture]%
25517 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25518 \else%
25519 {\par\noindent\begin{tikzpicture}[remember picture]%
25520 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25521 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@a
25522 \if@todonotes@authorgiven%
25523 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
25524 \else%
25525 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25526 \fi};%
25527 \end{tikzpicture}\par}%
25528 \fi}%
25529 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25530 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25531 \node [coordinate] (inText) {};%
25532 \end{tikzpicture}%
25533 \marginpar[{} Draw note in left margin
25534 \@todonotes@drawMarginNote%
25535 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25536 }]{% Draw note in right margin
25537 \@todonotes@drawMarginNote%
25538 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25539 }%
25540 }%
25541 \renewcommand{\@todonotes@drawMarginNote}{%
25542 \if@todonotes@dviStyle%
25543 \begin{tikzpicture}[remember picture]%
25544 \draw node[notestyle] {};%
25545 \end{tikzpicture}\%
25546 \begin{minipage}{\@todonotes@textwidth}%
25547 \if@todonotes@authorgiven%
25548 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25549 \else%

```



```

25550     \@todonotes@sizecommand \@todonotes@text%
25551     \fi%
25552     \end{minipage}\%
25553     \begin{tikzpicture}[remember picture]%
25554         \draw node[notestyle] (inNote) {};%
25555     \end{tikzpicture}%
25556 \else%
25557     \let\originalHbadness\hbadness%
25558     \hbadness 100000%
25559     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25560         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25561         \node(X){\vphantom{X}};%
25562         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25563             {\@todonotes@text};%
25564         \if@todonotes@authorgiven%
25565             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25566                 {\@todonotes@sizecommand\@todonotes@author};%
25567             \node(Y)[below=of X]{};%
25568             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25569                 {\@todonotes@text};%
25570         \else%
25571             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25572                 {\@todonotes@text};%
25573         \fi%
25574     \end{tikzpicture}%
25575     \hbadness \originalHbadness%
25576 \fi}%
25577 \renewcommand{\missingfigure}[2] [] {%
25578 \setkeys{todonotes}{#1}%
25579 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25580 \par
25581 \noindent
25582 \begin{tikzpicture}
25583 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25584     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25585 \if@bidi@todonotes@figposition@right%
25586 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25587 \fi%
25588 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25589     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25590 \if@bidi@todonotes@figposition@right%
25591 \end{scope}
25592 \begin{scope}[xshift=-3.8cm]
25593 \fi%
25594 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25595 \draw (2, -0.3) node[right, text
25596     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25597 \if@bidi@todonotes@figposition@right%
25598 \end{scope}
25599 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
26000 \fi%
26001 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
26002 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
26003 \if@bidi@todonotes@figposition@right%

```




```

25604 \end{scope}
25605 \fi%
25606 \end{tikzpicture}\hfill
25607 }% Ending \missingfigure command
25608 \fi % Ending \@todonotes@ifdisabled
25609 \presetkeys%
25610     {todonotes}%
25611     {align=left,%
25612     textdirection=lefttoright,%
25613     figposition=left}{}%

```

160 File wrapfig-xetex-bidi.def

```

25614 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25615 \let\WF@everypar\ bidi@n@everypar
25616 \def\WF@putfigmaybe{%
25617 \ifinner
25618   \vskip-\parskip \global\WF@floatfalse
25619   \let\pagetotal\maxdimen % kludge flag for "not top of page"
25620 \else % outer page
25621   \@tempdima\pagedepth % save page depth
25622   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25623   \penalty\interlinepenalty % update pg. parameters
25624   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25625   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25626     \global\WF@floatfalse
25627     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25628   \else
25629     \ifdim\WF@size>\@tempdimb
25630       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25631       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25632       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25633       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25634       \advance\dimen@.5\baselineskip
25635       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
25636         \global\WF@floatfalse \pagebreak
25637       \fi
25638     \else % \WF@info{Fits in \the\@tempdimb;}%
25639       \global\WF@floatfalse
25640     \fi\fi
25641     \vskip\@tempdima\relax % (return erased page depth)
25642 \fi
25643 \noindent
25644 \ifWF@float
25645   \WF@fltmes
25646 \else % putting here;
25647   \WF@info{Put \WF@wfname here;}%
25648   {\ifodd\if@twoside\c@page\else\one\fi % assign l/r to i/o placement
25649     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25650     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25651   \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25652     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25653     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25654     \@tempdimb\hsize \advance\@tempdimb-\@tempdima

```



```

25655 \xdef\WF@adjlw{\the\@tempdima}%
25656 \ifnum `l=\WF@place % fig on left
25657 \if@RTL%
25658 \kern\@tempdimb \kern\columnsep
25659 \def\@tempa{\hss}% position to left of the gap
25660 \else%
25661 \hss % figure overlaps space to the left
25662 \def\@tempa{\kern\columnsep}% position to left of the gap
25663 \fi%
25664 \else % fig on right
25665 \if@RTL%
25666 \hss
25667 \@tempdima\z@
25668 \def\@tempa{\kern\columnsep}
25669 \else%
25670 \@tempdima\z@ % no left indentation
25671 \kern\@tempdimb \kern\columnsep
25672 \def\@tempa{\hss}% figure overlaps space to the right
25673 \fi%
25674 \fi
25675 \ifdim\@tempdimb<\hsize
25676 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25677 \xdef\WF@adjtllm{\the\@tempdima}%
25678 \else
25679 \xdef\WF@wrapil{\z@ \the\hsize}%
25680 \xdef\WF@adjlw{\z@}\xdef\WF@adjtllm{\z@}%
25681 \fi
25682 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25683 \global\advance\WF@size-\intextsep
25684 \else % \WF@info{Putting \WF@wfname in middle of page}%
25685 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25686 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25687 }% end \hbox to Opt
25688 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25689 \fi}

```

161 File xcolor-xetex-bidi.def

```

25690 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25691 \long\def\color@b@x#1#2#3%
25692 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25693 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25694 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
25695 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
25696 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25697 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25698 \DeclareRobustCommand\color
25699 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
25700 \def\@undeclaredcolor[#1]#2%
25701 {\begingroup
25702 \let\@@cls\@empty
25703 \XC@getmodclr12{#1}{#2}{}}%
25704 {\ifblendcolors
25705 \ifx\colorblend\@empty\else

```



```

25706     \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
25707     \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
25708     \fi
25709     \fi
25710     \ifconvertcolorsU
25711     \edef\@tmp{\XC@tgt@mod{\@mod}}%
25712     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25713     \fi
25714     \ifmaskcolors
25715     \convertcolorspec\@mod\@clr\XC@mmod\@clr
25716     \let\@mod\XC@mmod
25717     \XC@inflate\@mod\XC@mclr\@clr\@tmp
25718     \expandafter\XC@mul\@tmp,\@clr
25719     \fi
25720     \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25721     \expandafter\endgroup\@tmp}
25722 \def\@declaredcolor#1%
25723 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25724 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25725 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25726 \ifconvertcolorsU\XC@tsttrue\fi
25727 \fi
25728 \if\XC@tst
25729 \expandafter\XC@declaredcolor\else
25730 \expandafter\XC@declaredcolor\fi}
25731 \def\XC@undeclaredcolor#1#2%
25732 {\@ifundefinedmodel{#1}%
25733 {\color@error{model `#1'}}%
25734 {\nameuse{color@#1}\current@color{#2}}%
25735 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25736 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25737 \def\XC@declaredcolor
25738 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25739 \edef\current@color{\XC@current@color}%
25740 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25741 \DeclareRobustCommand\bidicolor
25742 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
25743 \def\@bidiundeclaredcolor[#1]#2%
25744 {\begingroup
25745 \let\@cls\@empty
25746 \XC@getmodclr12{#1}{#2}{}%
25747 {\ifblendcolors
25748 \ifx\colorblend\@empty\else
25749 \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
25750 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
25751 \fi
25752 \fi
25753 \ifconvertcolorsU
25754 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25755 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25756 \fi
25757 \ifmaskcolors
25758 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25759 \let\@mod\XC@mmod

```



```

25760     \XC@inflate\@mod\XC@mclr\@clr\@tmp
25761     \expandafter\XC@mul\@tmp, \@clr
25762     \fi
25763     \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25764     \expandafter\endgroup\@tmp}}
25765 \def\XC@bidiundeclaredcolor#1#2%
25766 {\@ifundefinedmodel{#1}%
25767  {\c@lor@error{model `#1'}%
25768  {\@nameuse{color@#1}\current@color{#2}}%
25769  \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
25770  \XC@display}}
25771 \def\@bidideclaredcolor#1%
25772 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25773  \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25774  \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25775  \ifconvertcolorsU\XC@tsttrue\fi
25776  \fi
25777  \ifXC@tst
25778  \expandafter\XC@bidideclaredcolor\else
25779  \expandafter\XC@bidideclaredcolor\fi}
25780 \def\XC@bidideclaredcolor
25781 {\XC@split\XC@tmp
25782  \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25783  \expandafter\endgroup\@tmp}
25784 \def\XC@bidideclaredcolor
25785 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25786  \edef\current@color{\XC@current@color}%
25787  \XC@display}
25788 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25789 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25790 \def\color@fb@x#1#2#3#4%
25791 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
25792  {\@ifempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25793 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

162 File latex-xetex-bidi.def

```

25794 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25795 \newcommand{\TeXeTOn}{\TeXeTstate\@ne}
25796 \newcommand{\TeXeTOff}{\TeXeTstate\@z}
25797 \TeXeTOn
25798 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25799 \let\bidi@o@everypar=everypar
25800 \newtoks\bidi@n@everypar
25801 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25802 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25803 \let\everypar=\bidi@n@everypar
25804 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25805 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25806 \protected\def\hboxR{\hbox\group
25807 \everyhbox{%
25808 \aftergroup\egroup
25809 \everyhbox{}}%
25810 \beginR

```



```

25811 \@hboxRconstructtrue
25812 \bgroup
25813 \aftergroup\endR
25814 \aftergroup\egroup
25815 }\hbox}
25816 \protected\def\hboxL{\hbox\bgroup
25817 \everyhbox{%
25818 \aftergroup\egroup
25819 \everyhbox{}}%
25820 \beginL
25821 \@hboxRconstructfalse
25822 \bgroup
25823 \aftergroup\endL
25824 \aftergroup\egroup
25825 }\hbox}
25826 \protected\def\vboxR{\vbox\bgroup
25827 \everyvbox{%
25828 \aftergroup\egroup
25829 \everyvbox{}}%
25830 \@RTLtrue
25831 \@RTLtabtrue
25832 \bgroup
25833 \aftergroup\egroup
25834 }\vbox}
25835 \protected\def\vboxL{\vbox\bgroup
25836 \everyvbox{%
25837 \aftergroup\egroup
25838 \everyvbox{}}%
25839 \@RTLfalse
25840 \@RTLtabfalse
25841 \bgroup
25842 \aftergroup\egroup
25843 }\vbox}
25844 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
25845 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
25846 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
25847 \def\endLTR{\par}
25848 \newenvironment{LTR*}{\LTR
25849 \everypar{%
25850   {\setbox\z@\lastbox
25851     \ifvoid\z@
25852       \kern-\parindent
25853     \fi}}%
25854 }%
25855 }\endLTR\@endpetrue}
25856 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25857 \def\endRTL{\par}
25858 \newenvironment{RTL*}{\RTL
25859 \everypar{%
25860   {\setbox\z@\lastbox
25861     \ifvoid\z@
25862       \kern-\parindent
25863     \fi}}%
25864 }%

```



```

25865 }{\endRTL\@endpetrue}
25866 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@RTL@beamer@ragged}
25867 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@RTL@beamer@ragged}
25868 \let\unsetRTL=\setRTL
25869 \let\unsetLTR=\setRTL
25870 \let\LR=\LRE
25871 \let\RL=\RLE
25872 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25873 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25874 \let\@ensure@RL=\@ensure@RTL
25875 \let\@ensure@LR=\@ensure@LTR
25876 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25877 \let\@ensure@maindir=\@ensure@dir
25878 \def\@@RTL{RTL}
25879 \def\@@LTR{LTR}
25880 \def\save@dir{\if@RTL\gdef\save@@@dir{RTL}\else\gdef\save@@@dir{LTR}\fi}
25881 \def\reset@dir{\ifx\save@@@dir\@@RTL\setRTL\else\ifx\save@@@dir\@@LTR\setLTR\else\relax\fi}
25882 \let\@TeX\TeX
25883 \def\TeX{\@ensure@LTR{\@TeX}}
25884 \let\@LaTeX\LaTeX
25885 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25886 \let\@LaTeXe\LaTeXe
25887 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25888 \long\def\@bidi@reflect@box#1{%
25889   \leavevmode
25890   \setbox\z@\hbox{#1}}%
25891   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
25892   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
25893 }
25894 \if@bidi@csundef{XeTeX}{%
25895 \bidi@newrobustcmd*{XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25896 \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}}$}%
25897 }%
25898 \let\@bidi@orig@XeTeX\XeTeX
25899 \bidi@renewrobustcmd*{XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25900 }
25901 \if@bidi@csundef{XeLaTeX}{%
25902 \bidi@newrobustcmd*{XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25903 \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}}$}%
25904 }%
25905 \let\@bidi@orig@XeLaTeX\XeLaTeX
25906 \bidi@renewrobustcmd*{XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25907 }
25908 \let\setRL=\setRTL
25909 \let\setLR=\setLTR
25910 \let\unsetRL=\setLTR
25911 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25912 \ApplyPatchIfPackageLoaded{array}{%
25913 \def\@bidi@tabular@RTLcases{\@RTL@tabtrue%
25914   \leavevmode
25915   \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
25916   \let\d@llarend\end\group
25917   \@tabarray}
25918 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}

```



```

25919 }{%
25920 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25921     \leavevmode \hbox \bgroup
25922     $\left.\let\@acol\@tabacol
25923     \let\@classz\@tabclassz
25924     \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25925
25926 \def\endbidi@tabular@RTLcases{\crr\egroup\ifRTLtab\egroup\endR\egroup\fi
25927     \egroup\right\rbrace $\egroup}}
25928 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25929     \ialign{##\hfil$&\quad{##}\hfil\crr#1\crr}}\,\right\}}
25930 \renewenvironment{RTLcases}{%
25931     \bidi@matrix@check\RTLcases\env@RTLcases
25932 }{%
25933     \endbidi@tabular@RTLcases%
25934 }
25935 \def\env@RTLcases{%
25936     \let\@ifnextchar\bidi@new@ifnextchar
25937     \def\arraystretch{1.2}%
25938     \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
25939 }
25940 \def\SepMark#1{\gdef\@SepMark{#1}}
25941 \SepMark{.}
25942 \def\@thmcountersep{\@SepMark}
25943 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25944 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25945 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25946 \newcommand*\bidi@thebibliography@font@hook{}
25947 \def\list#1#2{%
25948     \ifnum \@listdepth >5\relax
25949         \@toodeep
25950     \else
25951         \global\advance\@listdepth\@ne
25952     \fi
25953     \rightmargin\z@
25954     \listparindent\z@
25955     \itemindent\z@
25956     \csname @list\romannumeral\the\@listdepth\endcsname
25957     \def\@itemlabel{#1}%
25958     \let\makelabel\@mklab
25959     \@nbrlistfalse
25960     #2\relax
25961     \@trivlist
25962     \parskip\parsep
25963     \parindent\listparindent
25964     \advance\linewidth -\rightmargin
25965     \advance\linewidth -\leftmargin
25966     \if@bidi@list@minipage@parbox
25967     \if@RTL
25968     \advance\@totalleftmargin \leftmargin
25969     \else
25970     \advance\@totalleftmargin \rightmargin
25971     \fi
25972     \else

```



```

25973 \if@hboxRconstruct
25974 \if@bidi@list@minipage@parbox@not@nob
25975 \if@RTL
25976 \advance\@totalleftmargin \rightmargin
25977 \else
25978 \advance\@totalleftmargin \leftmargin
25979 \fi
25980 \else
25981 \if@RTL
25982 \advance\@totalleftmargin \leftmargin
25983 \else
25984 \advance\@totalleftmargin \rightmargin
25985 \fi\fi
25986 \else
25987 \if@RTL
25988 \advance\@totalleftmargin \rightmargin
25989 \else
25990 \advance\@totalleftmargin \leftmargin
25991 \fi\fi\fi
25992 \parshape \@ne \@totalleftmargin \linewidth
25993 \ignorespaces}
25994 \long\def\@iiiiparbox#1#2[#3]#4#5{%
25995 \leavevmode
25996 \@pboxswfalse
25997 \if@hboxRconstruct
25998 \@bidi@list@minipage@parbox@not@nobtrue
25999 \fi
26000 \if@RTL
26001 \ifx#1%
26002 \@bidi@list@minipage@parboxtrue
26003 \else
26004 \ifx#1b%
26005 \@bidi@list@minipage@parboxtrue
26006 \fi
26007 \fi
26008 \fi
26009 \setlength\@tempdima{#4}%
26010 \@begin@tempboxa\vbox{\hspace\@tempdima\@parboxrestore#5\@par}%
26011 \ifx\relax#2\else
26012 \setlength\@tempdimb{#2}%
26013 \edef\@parboxto{to\the\@tempdimb}%
26014 \fi
26015 \if#1b\vbox
26016 \else\if #1t\vtop
26017 \else\ifmmode\vcenter
26018 \else\@pboxswtrue $\vcenter
26019 \fi\fi\fi
26020 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26021 \csname bm@#3\endcsname}%
26022 \if@pboxsw \m@th$\fi
26023 \@end@tempboxa}
26024 \newenvironment{LTRitems}
26025 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26026 \if@bidi@list@minipage@parbox

```




```

26027         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26028         \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26029         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26030         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26031         \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26032         \ignorespaces}{\vskip\z@}
26033 \newenvironment{RTLitems}
26034     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26035     \if@bidi@list@minipage@parbox
26036     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26037     \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26038     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26039     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26040     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26041     \ignorespaces}{\vskip\z@}
26042 \newenvironment{LTRbibitems}
26043     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26044     \if@bidi@list@minipage@parbox
26045     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26046     \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26047     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26048     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26049     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26050     \ignorespaces}{\vskip\z@}
26051 \newenvironment{RTLbibitems}
26052     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26053     \if@bidi@list@minipage@parbox
26054     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26055     \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26056     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26057     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26058     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26059     \ignorespaces}{\vskip\z@}
26060 \def\raggedright{%
26061     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26062     \leftskip\z@skip
26063     \parindent\z@\parfillskip\z@skip}
26064 \let\@bidi@orig@raggedleft\raggedleft
26065 \let\@bidi@orig@raggedright\raggedright
26066 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\ifhboxRco
26067 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\ifhboxRco
26068 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26069 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26070 \DeclareRobustCommand\centerline[1]{%
26071 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26072 \else\@@line{\hss#1\hss}\fi}
26073 \def\@bidi@orig@leftline#1{%
26074 \if@RTL\@@line{\beginR#1\endR\hss}
26075 \else\@@line{#1\hss}\fi}
26076 \def\@bidi@orig@rightline#1{%
26077 \if@RTL\@@line{\hss\beginR#1\endR}
26078 \else\@@line{\hss#1}\fi}
26079 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@lef
26080 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rig

```



```

26081 \DeclareRobustCommand\bidirlap[1]{\hb@xt@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26082 \DeclareRobustCommand\bidillap[1]{\hb@xt@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26083 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#{#1}}%
26084     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26085 \def\narrower{%
26086     \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26087     \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26088 \DeclareRobustCommand\underline[1]{%
26089     \relax
26090     \ifmode\@underline{#1}%
26091     \else
26092     \if@RTL $\@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26093     \else
26094     $\@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26095 \ifcompatibility
26096     \let\underline=\underline
26097 \fi
26098 \def\@tabular{%
26099     \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26100     $\let\@acol\@tabacol
26101     \let\@classz\@tabclassz
26102     \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26103 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
26104     \egroup $\if@RTLtab\endR\fi\egroup}
26105 \expandafter \let \csname endtabular*\endcsname = \endtabular
26106 \def\@array[#1]#2{%
26107     \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26108     \bgroup
26109     \setbox\@arstrutbox\hbox{%
26110         \vrule \@height\arraystretch\ht\strutbox
26111         \@depth\arraystretch \dp\strutbox
26112         \@widthz@}%
26113     \@mkpream{#2}%
26114     \edef\@preamble{%
26115         \ialign \noexpand\@halignto
26116         \bgroup \@arstrut \@preamble \tabskipz@skip \cr}%
26117     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26118     \let\@tabularnewline\%
26119     \let\par\@empty
26120     \let\sharp##%
26121     \set@typeset@protect
26122     \lineskipz@skip\baselineskipz@skip
26123     \ifhmode \@preamerrz@ \@@par\fi
26124     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26125     \@preamble}
26126 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26127     \let\@classiv\@arrayclassiv
26128     \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26129 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26130     \ifnum \@lastchclass=3 5 \else
26131     \z@ \if #1c\@chnum \z@ \else
26132         \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26133         \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26134     \@chclass \if #1|\@ne \else

```



```

26135             \if #1@tw@ \else
26136             \if #1p3 \else \z@ \@preamerr 0\fi
26137 \fi \fi \fi \fi \fi \fi
26138 \fi}
26139 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26140 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26141 \def\bm@t{\unhbox\@tempboxa\hss}
26142 \def\bm@b{\hss\unhbox\@tempboxa}
26143 \def\@dottedtocline#1#2#3#4#5{%
26144 \ifnum #1>\c@tocdepth \else
26145 \vskip \z@ \@plus.2\p@
26146 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@ocrma
26147 \parindent #2\relax\@afterindenttrue
26148 \interlinepenalty\@M
26149 \leavevmode
26150 \@tempdima #3\relax
26151 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26152 {#4}\nobreak
26153 \leaders\hbox{$\m@th
26154 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26155 mu$}\hfill
26156 \nobreak
26157 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26158 \par}%
26159 \fi}
26160
26161 \newcount\ bidi@column@check@number
26162
26163 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
26164
26165 \def\ bidi@set@column@status#1#2{%
26166 \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
26167
26168 \if@twocolumn
26169 \newcommand\ DetectColumn[3][1]{%
26170 \ifx\ bidi@firstcolumn@status\write\relax
26171 \PackageError{bidi}%
26172 {Option 'DetectColumn' not selected}%
26173 {\string\ DetectColumn\space
26174 requires the use of the 'DetectColumn'
26175 option on the package}%
26176 \fi
26177 \global\advance\ bidi@column@check@number\@ne
26178 \edef\ bidi@column@type{\expandafter\ifx
26179 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26180 0\else
26181 \csname bidi@column-\the\ bidi@column@check@number\endcsname
26182 \fi}%
26183 \ifcase \ bidi@column@type\relax
26184 \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
26185 \or
26186 #2% % 1 First column
26187 \or
26188 #3% % 2 Second (Last column)

```



```

26189 \else
26190 \ERROR
26191 \fi
26192 \edef\next{\write\@auxout
26193   {\string\bidiset@column@status{bidi@column-\the\bidicolumn@check@number}}%
26194   {\bidi@column@type}}}%
26195 \next
26196 }
26197
26198 \AtEndDocument{\def\bidi@set@column@status#1#2{%
26199   \ifnum #2=\bidicurrent@column@status\else
26200     \@tempwattrue
26201     \fi}%
26202 }
26203 \fi
26204
26205 \def\RTL@outputdblcol{%
26206   \if@firstcolumn
26207     \global\@firstcolumnfalse
26208     \global\setbox\@leftcolumn\copy\@outputbox
26209     \splitmaxdepth\maxdimen
26210     \vbadness\maxdimen
26211     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26212     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26213     \toks@\expandafter{\topmark}%
26214     \xdef\@firstcoltopmark{\the\toks@}%
26215     \toks@\expandafter{\splitfirstmark}%
26216     \xdef\@firstcolfirstmark{\the\toks@}%
26217     \ifx\@firstcolfirstmark\empty
26218       \global\let\@setmarks\relax
26219     \else
26220       \gdef\@setmarks{%
26221         \let\firstmark\@firstcolfirstmark
26222         \let\topmark\@firstcoltopmark}%
26223     \fi
26224   \else
26225     \global\@firstcolumntrue
26226     \setbox\@outputbox\vbox{%
26227       \hb@xt@\textwidth{%
26228         \hskip \columnwidth
26229         \hfil
26230         {\normalcolor\vrule \@width\columnseprule}%
26231         \hfil
26232         \hb@xt@\columnwidth{%
26233           \bidi@firstcolumn@status@write%
26234           \box\@leftcolumn \hss}%
26235         \hskip -\textwidth
26236         \hb@xt@\columnwidth{%
26237           \bidi@lastcolumn@status@write%
26238           \box\@outputbox \hss}%
26239         \hskip \columnsep
26240         \hskip \columnwidth }}%
26241     \@combinedblfloats
26242     \@setmarks

```



```

26243 \@outputpage
26244 \begingroup
26245 \@dblfloatplacement
26246 \@startdblcolumn
26247 \@whilesw@if@fcolmade \fi{\@outputpage
26248 \@startdblcolumn}%
26249 \endgroup
26250 \fi}%
26251
26252 \def\LTR@outputdblcol{%
26253 \if@firstcolumn
26254 \global\@firstcolumnfalse
26255 \global\setbox\@leftcolumn\copy\@outputbox
26256 \splitmaxdepth\maxdimen
26257 \vbadness\maxdimen
26258 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26259 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26260 \toks@\expandafter{\topmark}%
26261 \xdef\@firstcoltopmark{\the\toks@}%
26262 \toks@\expandafter{\splitfirstmark}%
26263 \xdef\@firstcolfirstmark{\the\toks@}%
26264 \ifx\@firstcolfirstmark\@empty
26265 \global\let\@setmarks\relax
26266 \else
26267 \gdef\@setmarks{%
26268 \let\firstmark\@firstcolfirstmark
26269 \let\topmark\@firstcoltopmark}%
26270 \fi
26271 \else
26272 \global\@firstcolumntrue
26273 \setbox\@outputbox\vbox{%
26274 \hb@xt@\textwidth{%
26275 \hb@xt@\columnwidth{%
26276 \bidi@firstcolumn@status@write%
26277 \box\@leftcolumn \hss}%
26278 \hfil
26279 {normalcolor\vrule \@width\columnseprule}%
26280 \hfil
26281 \hb@xt@\columnwidth{%
26282 \bidi@lastcolumn@status@write%
26283 \box\@outputbox \hss}}}%
26284 \@combinedblfloats
26285 \@setmarks
26286 \@outputpage
26287 \begingroup
26288 \@dblfloatplacement
26289 \@startdblcolumn
26290 \@whilesw@if@fcolmade \fi{\@outputpage
26291 \@startdblcolumn}%
26292 \endgroup
26293 \fi}%
26294
26295
26296 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}

```



```

26297 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26298 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26299
26300 \bidi@patchcmd\@makecol{%
26301   \ifvoid\footins
26302     \setbox\@outputbox \box\@cclv
26303   \else
26304     \setbox\@outputbox \vbox {%
26305       \boxmaxdepth \@maxdepth
26306       \unvbox \@cclv
26307       \vskip \skip\footins
26308       \color@begingroup
26309         \normalcolor
26310         \footnoterule
26311         \unvbox \footins
26312       \color@endgroup
26313     }%
26314   \fi
26315 }{%
26316   \ifvoid\footins
26317     \ifvoid\@bidi@copyins@
26318       \setbox\@outputbox \box\@cclv
26319     \else
26320       \setbox\@outputbox \vbox {%
26321         \boxmaxdepth \@maxdepth
26322         \unvbox \@cclv
26323         \vskip \skip\@bidi@copyins@
26324         \color@begingroup
26325           \normalcolor
26326           \unvbox \@bidi@copyins@
26327         \color@endgroup
26328       }%
26329     \fi
26330   \else
26331     \setbox\@outputbox \vbox {%
26332       \boxmaxdepth \@maxdepth
26333       \unvbox \@cclv
26334       \vskip \skip\footins
26335       \color@begingroup
26336         \normalcolor
26337         \footnoterule
26338         \unvbox \footins
26339       \color@endgroup
26340     \ifvoid\@bidi@copyins@
26341     \else
26342       \vskip \skip\@bidi@copyins@
26343       \color@begingroup
26344         \normalcolor
26345         \unvbox \@bidi@copyins@
26346       \color@endgroup
26347     \fi
26348   }%
26349   \fi
26350 }{}{}

```



```

26351
26352 \def\LTRmarginpar{%
26353   \ifhmode
26354     \@bsphack
26355     \@floatpenalty -\@Mii
26356   \else
26357     \@floatpenalty-\@Miii
26358   \fi
26359   \ifinner
26360     \@parmoderr
26361     \@floatpenalty\z@
26362   \else
26363     \@next\@currbox\@freelist{}{}%
26364     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26365     {\@floatpenalty\z@
26366       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26367   \fi
26368   \@ifnextchar [\@LTRxmpar\@LTRympar}
26369 \long\def\@LTRxmpar[#1]#2{%
26370   \@LTRsavemarbox\@marbox{#1}%
26371   \@LTRsavemarbox\@currbox{#2}%
26372   \@xympar}
26373 \long\def\@LTRympar#1{%
26374   \@LTRsavemarbox\@marbox{#1}%
26375   \global\setbox\@currbox\copy\@marbox
26376   \@xympar}
26377 \long\def \@LTRsavemarbox #1#2{%
26378   \global\setbox #1%
26379     \color@vbox
26380     \vtop{%
26381       \hsize\marginparwidth
26382       \@parboxrestore
26383       \@LTRmarginparreset
26384       #2%
26385       \@minipagefalse
26386       \outer@nobreak
26387     }%
26388   \color@endbox
26389 }
26390 \def \@LTRmarginparreset {%
26391   \reset@font
26392   \normalsize
26393   \@minipagetrue
26394   \everypar{\@minipagefalse\everypar{} \beginL}%
26395 }
26396 \def\RTLmarginpar{%
26397   \ifhmode
26398     \@bsphack
26399     \@floatpenalty -\@Mii
26400   \else
26401     \@floatpenalty-\@Miii
26402   \fi
26403   \ifinner
26404     \@parmoderr

```



```

26405 \floatpenalty\z@
26406 \else
26407 \@next\@currbox\@freelist{}{}%
26408 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26409 {\floatpenalty\z@
26410 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26411 \fi
26412 \ifnextchar [\@RTLxmpar\@RTLympar}
26413 \long\def\@RTLxmpar[#1]#2{%
26414 \@RTLSavemarbox\@marbox{#1}%
26415 \@RTLSavemarbox\@currbox{#2}%
26416 \@xympar}
26417 \long\def\@RTLympar#1{%
26418 \@RTLSavemarbox\@marbox{#1}%
26419 \global\setbox\@currbox\copy\@marbox
26420 \@xympar}
26421 \long\def \@RTLSavemarbox #1#2{%
26422 \global\setbox #1%
26423 \color@vbox
26424 \vtop{%
26425 \hsize\marginparwidth
26426 \@parboxrestore
26427 \@RTLMarginparreset
26428 #2%
26429 \@minipagefalse
26430 \outer@nobreak
26431 }%
26432 \color@endbox
26433 }
26434 \def \@RTLMarginparreset {%
26435 \reset@font
26436 \normalsize
26437 \@minipagetrue
26438 \everypar{\@minipagefalse\everypar{}\beginR}%
26439 }
26440 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26441 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26442 \if@twocolumn
26443 \if@firstcolumn \@tempcnta\m@ne \fi
26444 \else
26445 \if@mparswitch
26446 \ifodd\c@page \else\@tempcnta\m@ne \fi
26447 \fi
26448 \if@reversemargin \@tempcnta -\@tempcnta \fi
26449 \fi
26450 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26451 \@tempdima\mparbottom
26452 \advance\@tempdima -\@pageht
26453 \advance\@tempdima\ht\@marbox
26454 \ifdim\@tempdima >\z@
26455 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26456 \else
26457 \@tempdima\z@
26458 \fi

```




```

26459 \global\@mparbottom\@pageht
26460 \global\advance\@mparbottom\@tempdima
26461 \global\advance\@mparbottom\dp\@marbox
26462 \global\advance\@mparbottom\marginparpush
26463 \advance\@tempdima -\ht\@marbox
26464 \global\setbox \@marbox
26465 \vbox {\vskip \@tempdima
26466 \box \@marbox}%
26467 \global \ht\@marbox \z@
26468 \global \dp\@marbox \z@
26469 \kern -\@pagedp
26470 \nointerlineskip
26471 \hb@xt@\columnwidth
26472 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26473 \hskip\columnwidth \hskip\marginparsep
26474 \else
26475 \hskip -\marginparsep \hskip -\marginparwidth
26476 \fi
26477 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26478 \nointerlineskip
26479 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26480 \long\def\@ympar#1{%
26481 \s@vamarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26482 \global\setbox\@currbox\copy\@marbox
26483 \@xympar}
26484 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26485 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26486 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26487 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26488 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26489 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26490 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26491 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26492 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26493 \fi}
26494
26495 \newcommand*{\bidi@font@outputpage}{}
26496
26497 \def\@outputpage{%
26498 \begingroup % the \endgroup is put in by \aftergroup
26499 \let \protect \noexpand
26500 \resetactivechars
26501 \global\let\@if@newlist\if@newlist
26502 \global\@newlistfalse
26503 \parboxrestore
26504 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26505 \bidi@beforeoutputpageshipouthook
26506 \shipout \vbox{%
26507 \set@typeset@protect
26508 \aftergroup \endgroup
26509 \aftergroup \set@typeset@protect
26510 % correct? or just restore by ending
26511 % the group?
26512 \if@specialpage

```



```

26513   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26514   \fi
26515   \if@twoside
26516     \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26517     \if@RTLmain
26518       \let\@themargin\evensidemargin
26519     \else
26520       \let\@themargin\oddsidemargin
26521     \fi
26522   \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26523   \if@RTLmain
26524     \let\@themargin\oddsidemargin
26525   \else
26526     \let\@themargin\evensidemargin
26527   \fi
26528   \fi
26529   \ifx\@thehead\@empty \let\@thehead\hfil \fi
26530   \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26531   \else %% not @twoside
26532   \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26533   \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26534   \fi
26535   \reset@font
26536   \normalsize
26537   \bidi@font@@@outputpage
26538   \normalsfcodes
26539   \let\label\@gobble
26540   \let\index\@gobble
26541   \let\glossary\@gobble
26542   \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26543   \@begindvi
26544   \vskip \topmargin
26545   \moveright\@themargin \vbox {%
26546     \global\let\@bidi@BeforeHeader\@firstofone
26547     \bidi@beforeheaderhook
26548     \setbox\@tempboxa \vbox to\headheight{%
26549       \vfil
26550       \color@hbox
26551       \normalcolor
26552       \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
26553       \color@endbox
26554       }%
26555     \dp\@tempboxa \z@
26556     \box\@tempboxa
26557     \vskip \headsep
26558     \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
26559     \bidi@beforeoutputboxoutputpagehook
26560     \box\@outputbox
26561     \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
26562     \bidi@afteroutputboxoutputpagehook
26563     \global\let\@bidi@BeforeFooter\@firstofone
26564     \bidi@beforefooterhook
26565     \baselineskip \footskip
26566     \color@hbox

```



```

26567     \normalcolor
26568     \hb@xt@textwidth{\if@RTLmain@RTLtrue\beginR\else@RTLfalse\beginL\fi\@thefoot\if@R
26569     \color@endbox
26570     \global\let\@bidi@AfterFooter\@firstofone
26571     \bidi@afterfooterhook
26572     }%
26573     }%
26574     \global\let\@bidi@AfterOutputPageShipOut\@firstofone
26575     \bidi@afteroutputpageshipouthook
26576     \global\let\if@newlist\@if@newlist
26577     \global \colht \textheight
26578     \stepcounter{page}%
26579     \let\firstmark\botmark
26580     \global\let\@bidi@AtEndOutputPage\@firstofone
26581     \bidi@atendoutputpagehook
26582 }
26583 \long\def\@makecaption#1#2{%
26584   \vskip\abovecaptionskip
26585   \sbox\@tempboxa{#1: #2}%
26586   \ifdim \wd\@tempboxa >\hsize
26587     \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26588   \else
26589     \global \minipagefalse
26590     \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26591   \fi
26592   \vskip\belowcaptionskip}
26593 \let\@bidi@saved@eqno=\eqno
26594 \let\@bidi@saved@leqno=\leqno
26595 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@leqno \else \@bidi@saved@eqno \fi}
26596 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@eqno \else \@bidi@saved@leqno \fi}
26597 \ApplyPatchIfPackageLoadedF{amsmath}{
26598 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26599 }
26600 \input{footnote-xetex-bidi.def}
26601 \if@twocolumn
26602   \let\autofooterule\relax
26603   \let\leftfootnoterule\relax
26604   \let\rightfootnoterule\relax
26605   \textwidthfootnoterule
26606 \fi
26607 \if@bidi@cundef{\@idxitem}{-}{%
26608 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}}%
26609 }
26610
26611 \ApplyPatchToClassesIfPackageLoadedF{%
26612   book, %
26613   report %
26614 }{flowfram}
26615
26616 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26617
26618 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26619   fleqn, %
26620   leqno%

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26621 }[clo]
26622
26623 \ApplyPatchToClasses{%
26624   amsart, %
26625   amsbook, %
26626   article, %
26627   artikel1, %
26628   artikel2, %
26629   artikel3, %
26630   beamer, %
26631   boek, %
26632   boek3, %
26633   bookest, %
26634   combine, %
26635   extbook, %
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26641   memoir, %
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26643   rapport3, %
26644   refrep, %
26645   scrartcl, %
26646   scrbook, %
26647   screprt %
26648 }
26649
26650 \ApplyPatchToPackages{%
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26656   arydshln, %
26657   array, %
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 26686 beamerthemeHannover, %
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 26699 draftwatermark, %
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 26723 midfloat, %
 26724 minitoc, %
 26725 multicol, %
 26726 multienum, %
 26727 natbib, %
 26728 newfloat, %



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26731 ntheorem-hyper, %
26732 overpic, %
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26752 tocbibind, %
26753 tocloft, %
26754 tocstyle, %
26755 todonotes, %
26756 wrapfig, %
26757 xcolor, %
26758 xltextra %
26759 }
26760
26761 \ApplyPatchToFiles{%
26762   pgfcorescopes.code, %
26763   pstricks %
26764 }[tex]
26765
26766 \ApplyPatchToFile{tc-xetex}

```

163 File `xltextra-xetex-bidi.def`

```

26767 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26768 \let\@XeTeX\XeTeX
26769 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26770 \let\@XeLaTeX\XeLaTeX
26771 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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