

Charis SIL - Font Features

Charis SIL is an OpenType-enabled font family that supports the Latin and Cyrillic scripts. It includes a number of optional features that may be useful or required for particular uses or languages. This document lists all the available features.

These OpenType features are primarily specified using four-letter tags (e.g. 'cv17'), although some applications may provide a direct way to control certain common features such as small caps. For more information on how to access OpenType features in specific environments and applications, see [Using Font Features](#).

Please note that Graphite support has been removed in the current release, but continues to be available in the version 5 fonts. See our [Previous Versions archive](#).

This page uses web fonts (WOFF2) to demonstrate font features and should display correctly in all modern browsers. For a more concise example of how to use Charis SIL as a web font see *CharisSIL-webfont-example.html* in the font package *web* folder. For detailed information see [Using SIL Fonts on Web Pages](#).

If this document is not displaying correctly a PDF version is also provided in the documentation/pdf folder of the release package.

Complete feature list

Stylistic alternates

Small caps from lowercase

Affects: all lowercase letters with capital equivalents

Feature	Sample	Feature setting
Standard	a ... Z (all letters with capital equivalents)	smcp=0
Small caps	À ... Z (all letters with capital equivalents)	smcp=1

Small caps from capitals

This feature is not supported in TypeTuner Web.

Affects: all capitals

Feature	Sample	Feature setting
Standard	A ... Z (all capitals)	c2sc=0
Small caps	À ... Z (all capitals)	c2sc=1

Double-story a and g

This feature was formerly called 'Literacy alternates'.

Affects: U+0061 U+00E0 U+00E1 U+00E2 U+00E3 U+00E4 U+00E5 U+0101 U+0103 U+0105 U+01CE U+01DF U+01E1 U+01FB U+0201 U+0203 U+0227 U+1E01 U+1E9A U+1EA1 U+1EA3 U+1EA5 U+1EA7 U+1EA9 U+1EAB U+1EAD U+1EAF U+1EB1 U+1EB3 U+1EB5 U+1EB7 U+2C65 U+2090 U+1D43 U+0363 U+0067 U+011D U+011F U+0121 U+0123 U+01E7 U+01F5 U+01E5 U+1E21 U+A7A1 U+1D4D

Feature	Sample	Feature setting
Standard	a à á â ã ä å ā ă ą ǎ ǎ̄ ǎ̄́ ǎ̄̀ ǎ̄̂ ǎ̄̃ ǎ̄̄ ǎ̄̅ ǎ̄̆ ǎ̄̇ ǎ̄̈ ǎ̄̉ ǎ̄̊ ǎ̄̋ ǎ̄̌ ǎ̄̍ ǎ̄̎ ǎ̄̏ ǎ̄̐ ǎ̄̑ ǎ̄̒ ǎ̄̓ ǎ̄̔ ǎ̄̕ ǎ̖̄ ǎ̗̄ ǎ̘̄ ǎ̙̄ ǎ̄̚ ǎ̛̄ ǎ̜̄ ǎ̝̄ ǎ̞̄ ǎ̟̄ ǎ̠̄ ǎ̡̄ ǎ̢̄ ạ̌̄ ǎ̤̄ ḁ̌̄ ǎ̦̄ ǎ̧̄ ą̌̄ ǎ̩̄ ǎ̪̄ ǎ̫̄ ǎ̬̄ ǎ̭̄ ǎ̮̄ ǎ̯̄ ǎ̰̄ ǎ̱̄ ǎ̲̄ ǎ̳̄ ǎ̴̄ ǎ̵̄ ǎ̶̄ ǎ̷̄ ǎ̸̄ ǎ̹̄ ǎ̺̄ ǎ̻̄ ǎ̼̄ ǎ̄̽ ǎ̄̾ ǎ̄̿ ǎ̄̿̂ ǎ̄̿̃ ǎ̄̿̄ ǎ̄̿̅ ǎ̄̿̆ ǎ̄̿̇ ǎ̄̿̈ ǎ̄̿̉ ǎ̄̿̊ ǎ̄̿̋ ǎ̄̿̌ ǎ̄̿̍ ǎ̄̿̎ ǎ̄̿̏ ǎ̄̿̐ ǎ̄̿̑ ǎ̄̿̒ ǎ̄̿̓ ǎ̄̿̔ ǎ̄̿̕ ǎ̖̄̿ ǎ̗̄̿ ǎ̘̄̿ ǎ̙̄̿ ǎ̄̿̚ ǎ̛̄̿ ǎ̜̄̿ ǎ̝̄̿ ǎ̞̄̿ ǎ̟̄̿ ǎ̠̄̿ ǎ̡̄̿ ǎ̢̄̿ ạ̌̄̿ ǎ̤̄̿ ḁ̌̄̿ ǎ̦̄̿ ǎ̧̄̿ ą̌̄̿ ǎ̩̄̿ ǎ̪̄̿ ǎ̫̄̿ ǎ̬̄̿ ǎ̭̄̿ ǎ̮̄̿ ǎ̯̄̿ ǎ̰̄̿ ǎ̱̄̿ ǎ̲̄̿ ǎ̳̄̿ ǎ̴̄̿ ǎ̵̄̿ ǎ̶̄̿ ǎ̷̄̿ ǎ̸̄̿ ǎ̹̄̿ ǎ̺̄̿ ǎ̻̄̿ ǎ̼̄̿ ǎ̄̿̽ ǎ̄̿̾ ǎ̄̿̿	ss01=0
Single-story	ɑ à á â ã ä å ā ă ą ǎ ǎ̄ ǎ̄́ ǎ̄̀ ǎ̄̂ ǎ̄̃ ǎ̄̄ ǎ̄̅ ǎ̄̆ ǎ̄̇ ǎ̄̈ ǎ̄̉ ǎ̄̊ ǎ̄̋ ǎ̄̌ ǎ̄̍ ǎ̄̎ ǎ̄̏ ǎ̄̐ ǎ̄̑ ǎ̄̒ ǎ̄̓ ǎ̄̔ ǎ̄̕ ǎ̖̄ ǎ̗̄ ǎ̘̄ ǎ̙̄ ǎ̄̚ ǎ̛̄ ǎ̜̄ ǎ̝̄ ǎ̞̄ ǎ̟̄ ǎ̠̄ ǎ̡̄ ǎ̢̄ ạ̌̄ ǎ̤̄ ḁ̌̄ ǎ̦̄ ǎ̧̄ ą̌̄ ǎ̩̄ ǎ̪̄ ǎ̫̄ ǎ̬̄ ǎ̭̄ ǎ̮̄ ǎ̯̄ ǎ̰̄ ǎ̱̄ ǎ̲̄ ǎ̳̄ ǎ̴̄ ǎ̵̄ ǎ̶̄ ǎ̷̄ ǎ̸̄ ǎ̹̄ ǎ̺̄ ǎ̻̄ ǎ̼̄ ǎ̄̽ ǎ̄̾ ǎ̄̿ ǎ̄̿̂ ǎ̄̿̃ ǎ̄̿̄ ǎ̄̿̅ ǎ̄̿̆ ǎ̄̿̇ ǎ̄̿̈ ǎ̄̿̉ ǎ̄̿̊ ǎ̄̿̋ ǎ̄̿̌ ǎ̄̿̍ ǎ̄̿̎ ǎ̄̿̏ ǎ̄̿̐ ǎ̄̿̑ ǎ̄̿̒ ǎ̄̿̓ ǎ̄̿̔ ǎ̄̿̕ ǎ̖̄̿ ǎ̗̄̿ ǎ̘̄̿ ǎ̙̄̿ ǎ̄̿̚ ǎ̛̄̿ ǎ̜̄̿ ǎ̝̄̿ ǎ̞̄̿ ǎ̟̄̿ ǎ̠̄̿ ǎ̡̄̿ ǎ̢̄̿ ạ̌̄̿ ǎ̤̄̿ ḁ̌̄̿ ǎ̦̄̿ ǎ̧̄̿ ą̌̄̿ ǎ̩̄̿ ǎ̪̄̿ ǎ̫̄̿ ǎ̬̄̿ ǎ̭̄̿ ǎ̮̄̿ ǎ̯̄̿ ǎ̰̄̿ ǎ̱̄̿ ǎ̲̄̿ ǎ̳̄̿ ǎ̴̄̿ ǎ̵̄̿ ǎ̶̄̿ ǎ̷̄̿ ǎ̸̄̿ ǎ̹̄̿ ǎ̺̄̿ ǎ̻̄̿ ǎ̼̄̿ ǎ̄̿̽ ǎ̄̿̾ ǎ̄̿̿	ss01=1

Single-story a (only)

Affects: U+0061 U+00E0 U+00E1 U+00E2 U+00E3 U+00E4 U+00E5 U+0101 U+0103 U+0105 U+01CE U+01DF U+01E1 U+01FB U+0201 U+0203 U+0227 U+1E01 U+1E9A U+1EA1 U+1EA3 U+1EA5 U+1EA7 U+1EA9 U+1EAB U+1EAD U+1EAF U+1EB1 U+1EB3 U+1EB5 U+1EB7 U+2C65 U+2090 U+1D43 U+0363

Feature	Sample	Feature setting
Standard	a à á â ã ä å ā ă ą ǎ ǎ̄ ǎ̄́ ǎ̄̀ ǎ̄̂ ǎ̄̃ ǎ̄̄ ǎ̄̅ ǎ̄̆ ǎ̄̇ ǎ̄̈ ǎ̄̉ ǎ̄̊ ǎ̄̋ ǎ̄̌ ǎ̄̍ ǎ̄̎ ǎ̄̏ ǎ̄̐ ǎ̄̑ ǎ̄̒ ǎ̄̓ ǎ̄̔ ǎ̄̕ ǎ̖̄ ǎ̗̄ ǎ̘̄ ǎ̙̄ ǎ̄̚ ǎ̛̄ ǎ̜̄ ǎ̝̄ ǎ̞̄ ǎ̟̄ ǎ̠̄ ǎ̡̄ ǎ̢̄ ạ̌̄ ǎ̤̄ ḁ̌̄ ǎ̦̄ ǎ̧̄ ą̌̄ ǎ̩̄ ǎ̪̄ ǎ̫̄ ǎ̬̄ ǎ̭̄ ǎ̮̄ ǎ̯̄ ǎ̰̄ ǎ̱̄ ǎ̲̄ ǎ̳̄ ǎ̴̄ ǎ̵̄ ǎ̶̄ ǎ̷̄ ǎ̸̄ ǎ̹̄ ǎ̺̄ ǎ̻̄ ǎ̼̄ ǎ̄̽ ǎ̄̾ ǎ̄̿	ss11=0
Single-story	ɑ à á â ã ä å ā ă ą ǎ ǎ̄ ǎ̄́ ǎ̄̀ ǎ̄̂ ǎ̄̃ ǎ̄̄ ǎ̄̅ ǎ̄̆ ǎ̄̇ ǎ̄̈ ǎ̄̉ ǎ̄̊ ǎ̄̋ ǎ̄̌ ǎ̄̍ ǎ̄̎ ǎ̄̏ ǎ̄̐ ǎ̄̑ ǎ̄̒ ǎ̄̓ ǎ̄̔ ǎ̄̕ ǎ̖̄ ǎ̗̄ ǎ̘̄ ǎ̙̄ ǎ̄̚ ǎ̛̄ ǎ̜̄ ǎ̝̄ ǎ̞̄ ǎ̟̄ ǎ̠̄ ǎ̡̄ ǎ̢̄ ạ̌̄ ǎ̤̄ ḁ̌̄ ǎ̦̄ ǎ̧̄ ą̌̄ ǎ̩̄ ǎ̪̄ ǎ̫̄ ǎ̬̄ ǎ̭̄ ǎ̮̄ ǎ̯̄ ǎ̰̄ ǎ̱̄ ǎ̲̄ ǎ̳̄ ǎ̴̄ ǎ̵̄ ǎ̶̄ ǎ̷̄ ǎ̸̄ ǎ̹̄ ǎ̺̄ ǎ̻̄ ǎ̼̄ ǎ̄̽ ǎ̄̾ ǎ̄̿	ss11=1

Single-story g (only)

Affects: U+0067 U+011D U+011F U+0121 U+0123 U+01E7 U+01F5 U+01E5 U+1E21 U+A7A1 U+1D4D

Feature	Sample	Feature setting
Standard	g ĝ ğ ǧ ǧ̄ ǧ̄́ ǧ̄̀ ǧ̄̂ ǧ̄̃ ǧ̄̄ ǧ̄̅ ǧ̄̆ ǧ̄̇ ǧ̄̈ ǧ̄̉ ǧ̄̊ ǧ̄̋ ǧ̄̌ ǧ̄̍ ǧ̄̎ ǧ̄̏ ǧ̄̐ ǧ̄̑ ǧ̄̒ ǧ̄̓ ǧ̄̔ ǧ̄̕ ǧ̖̄ ǧ̗̄ ǧ̘̄ ǧ̙̄ ǧ̄̚ ǧ̛̄ ǧ̜̄ ǧ̝̄ ǧ̞̄ ǧ̟̄ ǧ̠̄ ǧ̡̄ ǧ̢̄ ǧ̣̄ ǧ̤̄ ǧ̥̄ ǧ̦̄ ģ̌̄ ǧ̨̄ ǧ̩̄ ǧ̪̄ ǧ̫̄ ǧ̬̄ ǧ̭̄ ǧ̮̄ ǧ̯̄ ǧ̰̄ ǧ̱̄ ǧ̲̄ ǧ̳̄ ǧ̴̄ ǧ̵̄ ǧ̶̄ ǧ̷̄ ǧ̸̄ ǧ̹̄ ǧ̺̄ ǧ̻̄ ǧ̼̄ ǧ̄̽ ǧ̄̾ ǧ̄̿	ss12=0
Single-story	ɡ ɡ̂ ɡ̃ ɡ̄ ɡ̅ ɡ̆ ɡ̇ ɡ̈ ɡ̉ ɡ̊ ɡ̋ ɡ̌ ɡ̍ ɡ̎ ɡ̏ ɡ̐ ɡ̑ ɡ̒ ɡ̓ ɡ̔ ɡ̕ ɡ̖ ɡ̗ ɡ̘ ɡ̙ ɡ̚ ɡ̛ ɡ̜ ɡ̝ ɡ̞ ɡ̟ ɡ̠ ɡ̡ ɡ̢ ɡ̣ ɡ̤ ɡ̥ ɡ̦ ɡ̧ ɡ̨ ɡ̩ ɡ̪ ɡ̫ ɡ̬ ɡ̭ ɡ̮ ɡ̯ ɡ̰ ɡ̱ ɡ̲ ɡ̳ ɡ̴ ɡ̵ ɡ̶ ɡ̷ ɡ̸ ɡ̹ ɡ̺ ɡ̻ ɡ̼ ɡ̽ ɡ̾ ɡ̿	ss12=1

Barred-bowl forms

Affects: U+0111 U+0180 U+01E5

Feature	Sample	Feature setting
Standard	đ ʙ ɡ	ss04=0
Barred-bowl	ḑ Ḕ ɡ̂	ss04=1

Slant italic specials

Affects: U+0061 U+00E3 U+00E0 U+00E1 U+00E2 U+00E4 U+00E5 U+0101 U+0103 U+01CE U+01DF U+01E1 U+01FB U+0201 U+0203 U+0227 U+1E01 U+1E9A U+1EA3 U+1EA5 U+1EA7 U+1EA9 U+1EAB U+1EAD U+1EAF U+1EB1 U+1EB3 U+1EB5 U+1EA1 U+1EB7 U+2C65 U+0250 U+00E6 U+0066 U+1E1F U+0069 U+00EC U+00ED U+00EE U+00EF U+0129 U+012B U+012D U+012F U+01D0 U+0209 U+020B U+1E2D U+1E2F U+1EC9

Eng

Affects: U+014A

Feature	Sample	Feature setting
Standard	ŋ	cv43=0
Lowercase style on baseline	ɳ	cv43=1
Uppercase style with descender	Ŋ	cv43=2
Alt. lowercase style on baseline	ɳ̥	cv43=3

N left hook

Affects: U+019D

Feature	Sample	Feature setting
Standard	ɳ	cv44=0
Lowercase-style	ɳ̥	cv44=1

Open-O

Affects: U+0186 U+0254 U+1D10 U+1D53 U+1D97

Feature	Sample	Feature setting
Standard	ɔ̥ ɔ̥ ɔ̥ ɔ̥	cv46=0
Top serif	ɔ̥ ɔ̥ ɔ̥ ɔ̥	cv46=1

OU

Affects: U+0222 U+0223 U+1D3D U+1D15

Feature	Sample	Feature setting
Standard	ɔ̥ ɔ̥ ɔ̥ ⁸	cv47=0
Open	ɔ̥ ɔ̥ ɔ̥ ⁸	cv47=1

p hook

Affects: U+01A5

Feature	Sample	Feature setting
Standard	ɸ	cv49=0
Right hook	ɸ̥	cv49=1

R tail

Affects: U+2C64

Feature	Sample	Feature setting
Standard	Ŕ	cv55=0
Lowercase-style	ŕ	cv55=1

T hook

Affects: U+01AC

Feature	Sample	Feature setting
Standard	Ṛ	cv57=0
Right hook	Ṛ̃	cv57=1

V hook

Affects: U+01B2 U+028B U+1DB9

Feature	Sample	Feature setting
Standard	Ṫ ṫ ṫ [˘]	cv62=0
Straight with low hook	Ṫ̃ ṫ̃ ṫ̃ [˘]	cv62=1
Straight with high hook	Ṫ̂ ṫ̂ ṫ̂ [˘]	cv62=2

Y hook

Affects: U+01B3

Feature	Sample	Feature setting
Standard	Ṛ̃	cv68=0
Left hook	Ṛ̃̂	cv68=1

Ezh

Affects: U+01B7 U+04E0

Feature	Sample	Feature setting
Standard	Ʒ Ʒ	cv20=0
Reversed sigma	Ʒ̃ Ʒ̃	cv20=1

ezh curl

Affects: U+0293

Feature	Sample	Feature setting
Standard	Ʒ̃	cv19=0
Large bowl	Ʒ̃̂	cv19=1

rams horn

Affects: U+0264

Feature	Sample	Feature setting
Standard	ʁ	cv25=0
Large bowl	ϣ	cv25=1
Small gamma	ɣ	cv25=2

Diacritic and symbol alternates

Vietnamese-style diacritics

Affects: U+1EA4 U+1EA5 U+1EA6 U+1EA7 U+1EA8 U+1EA9 U+1EAA U+1EAB U+1EAE U+1EAF U+1EB0 U+1EB1 U+1EB2 U+1EB3 U+1EB4 U+1EB5 U+1EBE U+1EBF U+1EC0 U+1EC1 U+1EC2 U+1EC3 U+1EC4 U+1EC5 U+1ED0 U+1ED1 U+1ED2 U+1ED3 U+1ED4 U+1ED5 U+1ED6 U+1ED7

Feature	Sample	Feature setting
Standard	Áá Àà Ââ Ãã Ää Éé Èè Êê Ëë Óó Òò Ôô Õõ	cv75=0
Vietnamese-style	Ăă Ằằ Ẵẵ Ẳẳ Ắắ Ằằ Ẵẵ Ẳẳ Ếế Ềề Ểể Ễễ Ớớ Ồồ Ỗỗ Ỗỗ	cv75=1

Kayan diacritics

This feature is not supported in TypeTuner Web.

Affects: U+0300 U+0301

Feature	Sample	Feature setting
Standard	◌̇	cv79=0
Side by side	◌̇̇	cv79=1

Ogonek

Affects: U+0328 U+0104 U+0105 U+0118 U+0119 U+012E U+012F U+0172 U+0173 U+01EA U+01EB U+01EC U+01ED

Feature	Sample	Feature setting
Standard	anything with ̇ (Aą Ęę Ii Uu Qq Q̇q̇)	cv76=0
Straight	anything with ̇ (Aą Ęę Ii Uu Qq Q̇q̇)	cv76=1

Caron

Affects: U+010F U+013D U+013E U+0165

Feature	Sample	Feature setting
Standard	ď Ľ ľ ť	cv77=0
Global-style	đ ĺ ľ ť	cv77=1

Modifier apostrophe

Affects: U+02BC U+A78B U+A78C

Feature	Sample	Feature setting
Standard	’	cv70=0
Large	’	cv70=1

Modifier colon

Affects: U+A789

Feature	Sample	Feature setting
Standard	:	cv71=0
Expanded	:	cv71=1

Empty set

Affects: U+2205

Feature	Sample	Feature setting
Standard	∅	cv98=0
Zero-style	∅	cv98=1

Cyrillic alternates

There are also Cyrillic characters affected by the “Ezh” and “Small capitals” features. Some languages may also use the “Modifier apostrophe”.

Cyrillic E

Affects: U+042D U+044D

Feature	Sample	Feature setting
Standard	Ә ә	cv80=0
Mongolian-style	Ә ә	cv80=1

Cyrillic shha

Affects: U+04BB

Feature	Sample	Feature setting
Standard	Һ	cv81=0
Uppercase-style	Һ	cv81=1

Cyrillic breve

Affects: U+0306

Feature	Sample	Feature setting
Standard	anything with ǒ (ǒǒ)	cv82=0
Cyrillic-style	anything with ọ̌ (ọ̌ọ̌)	cv82=1

Serbian Cyrillic alternates

These alternate forms mainly affect italic styles. Unlike other features this is activated by tagging the span of text as being in the Serbian language, not by turning on an OpenType feature. It is also not available through TypeTuner Web although a similar feature is supported (cv84).

Affects: U+0431 U+0433 U+0434 U+043F U+0442 U+0453

Feature	Sample	Feature setting
Standard	б з ђ н м ѓ	
Serbian	δ ī g ū ū́ í	lang='sr'

Macedonian Cyrillic alternates

These alternate forms mainly affect italic styles. Unlike other features this is activated by tagging the span of text as being in the Macedonian language, not by turning on an OpenType feature. It is also not available through TypeTuner Web although a similar feature is supported (cv84).

Affects: U+0431 U+0433 U+0434 U+043F U+0442 U+0453

Feature	Sample	Feature setting
Standard	б з ђ н м ѓ	
Macedonian	δ ī g ū ū́ í	lang='mk'

Serbian and Macedonian Cyrillic alternates

This feature provides an alternate way to activate the Serbian and Macedonian forms in applications that do not support language-specific features.

Affects: U+0431 U+0433 U+0434 U+043F U+0442 U+0453

Feature	Sample	Feature setting
Standard	б з ђ н м ѓ	cv84=0
Serbian Macedonian forms	δ ī g ū ū́ í	cv84=1

Tone alternates

Chinantec tones

Affects: U+02CB U+02C8 U+02C9 U+02CA

Feature	Sample	Feature setting
Standard	˘ ˙ ˚ ˛	cv90=0
Chinantec-style	˘ ˙ ˚ ˛	cv90=1

Tone numbers

This feature is not supported in TypeTuner Web.

Affects: U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716

Feature	Sample	Feature setting
Standard	ᄀ ᄁ ᄂ ᄃ ᄄ ᄅ ᄆ ᄇ ᄈ ᄉ ᄊ ᄋ ᄌ	cv91=0
Numbers	5 4 3 2 1 5 4 3 2 1	cv91=1

Hide tone contour staves

This feature is not supported in TypeTuner Web.

Affects: U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716

Feature	Sample	Feature setting
Standard	ᄀ ᄁ ᄂ ᄃ ᄄ ᄅ ᄆ ᄇ ᄈ ᄉ ᄊ ᄋ ᄌ (ᄀ ᄁ)	cv92=0
Hide staves	- - - - - - (ᄀ ᄁ)	cv92=1

This guide is from the [Charis SIL project](https://sil.org/charis) version 6.101 and is copyright © 1997-2022 SIL International.