

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 [Charis SIL Webfont Example](#). 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	A ... Z (all letters with capital equivalents)	smcp=1

Small caps from capitals

Affects: all capitals

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

Literacy a and g

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 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 ǎ̺̄̇ ǎ̻̄̇ ǎ̼̄̇ ǎ̄̽̇ ǎ̄̾̇ ǎ̄̿̇ ǎ̺̄̈ ǎ̻̄̈ ǎ̼̄̈ ǎ̄̽̈ ǎ̄̾̈ ǎ̄̿̈ ǎ̺̄̉ ǎ̻̄̉ ǎ̼̄̉ ǎ̄̽̉ ǎ̄̾̉ ǎ̄̿̉ ǎ̺̄̊ ǎ̻̄̊ ǎ̼̄̊ ǎ̄̽̊ ǎ̄̾̊ ǎ̄̿̊ ǎ̺̄̋ ǎ̻̄̋ ǎ̼̄̋ ǎ̄̽̋ ǎ̄̾̋ ǎ̄̿̋ ǎ̺̄̌ ǎ̻̄̌ ǎ̼̄̌ ǎ̄̽̌ ǎ̄̾̌ ǎ̄̿̌ ǎ̺̄̍ ǎ̻̄̍ ǎ̼̄̍ ǎ̄̽̍ ǎ̄̾̍ ǎ̄̿̍ ǎ̺̄̎ ǎ̻̄̎ ǎ̼̄̎ ǎ̄̽̎ ǎ̄̾̎ ǎ̄̿̎ ǎ̺̄̏ ǎ̻̄̏ ǎ̼̄̏ ǎ̄̽̏ ǎ̄̾̏ ǎ̄̿̏ ǎ̺̄̐ ǎ̻̄̐ ǎ̼̄̐ ǎ̄̽̐ ǎ̄̾̐ ǎ̄̿̐ ǎ̺̄̑ ǎ̻̄̑ ǎ̼̄̑ ǎ̄̽̑ ǎ̄̾̑ ǎ̄̿̑ ǎ̺̄̒ ǎ̻̄̒ ǎ̼̄̒ ǎ̄̽̒ ǎ̄̾̒ ǎ̄̿̒ ǎ̺̄̓ ǎ̻̄̓ ǎ̼̄̓ ǎ̄̽̓ ǎ̄̾̓ ǎ̄̿̓ ǎ̺̄̔ ǎ̻̄̔ ǎ̼̄̔ ǎ̄̽̔ ǎ̄̾̔ ǎ̄̿̔ ǎ̺̄̕ ǎ̻̄̕ ǎ̼̄̕ ǎ̄̽̕ ǎ̄̾̕ ǎ̄̿̕ ǎ̺̖̄ ǎ̻̖̄ ǎ̼̖̄ ǎ̖̄̽ ǎ̖̄̾ ǎ̖̄̿ ǎ̺̗̄ ǎ̻̗̄ ǎ̼̗̄ ǎ̗̄̽ ǎ̗̄̾ ǎ̗̄̿ ǎ̺̘̄ ǎ̻̘̄ ǎ̼̘̄ ǎ̘̄̽ ǎ̘̄̾ ǎ̘̄̿ ǎ̺̙̄ ǎ̻̙̄ ǎ̼̙̄ ǎ̙̄̽ ǎ̙̄̾ ǎ̙̄̿ ǎ̺̄̚ ǎ̻̄̚ ǎ̼̄̚ ǎ̄̽̚ ǎ̄̾̚ ǎ̄̿̚ ǎ̛̺̄ ǎ̛̻̄ ǎ̛̼̄ ǎ̛̄̽ ǎ̛̄̾ ǎ̛̄̿ ǎ̺̜̄ ǎ̻̜̄ ǎ̼̜̄ ǎ̜̄̽ ǎ̜̄̾ ǎ̜̄̿ ǎ̺̝̄ ǎ̻̝̄ ǎ̼̝̄ ǎ̝̄̽ ǎ̝̄̾ ǎ̝̄̿ ǎ̺̞̄ ǎ̻̞̄ ǎ̼̞̄ ǎ̞̄̽ ǎ̞̄̾ ǎ̞̄̿ ǎ̺̟̄ ǎ̻̟̄ ǎ̼̟̄ 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Literacy 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

[illegible]**Literacy 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 ġ ģ ĥ ħ ģ ħ ģ ħ	ss12=0
Single-story	g ĝ ğ ġ ģ ĥ ħ ģ ħ ģ ħ	ss12=1

Barred-bowl forms

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

Feature	Sample	Feature setting
Standard	đ ʙ ɡ	ss04=0
Barred-bowl	ɖ ʙ ɡ	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

U+1ECB U+0131 U+006C U+013A U+1E37 U+1E39 U+1E3B U+1E3D U+0076 U+1E7D U+1E7F U+007A U+017A U+017C U+017E U+1E91 U+1E93 U+1E95 U+0493 U+04FB U+F327 U+A749 U+A75F U+2097

Feature	Sample	Feature setting
Standard	a ã à á â ä å ā ă ǎ Ą ȁ ą ǻ ǿ ǽ Ǿ Ǻ Ǽ ǹ ǻ à á â Ạ ạ Ɔ œ f fi ì í î ï ī ḡ ḥ ḭ ḱ ḷ Ḳ Ḷ <u>l</u> l̃ t _l v ṽ y ỹ z ž ź ż Ź z ɛ ɜ F ʒ fi ffi	ss05=0
Slanted	a ã à á â ä å ā ă ǎ Ą ȁ ą ǻ ǿ ǽ Ǿ Ǻ Ǽ ǹ ǻ à á â Ạ ạ Ɔ œ f fi ì í î ï ī ḡ ḥ ḭ ḱ ḷ Ḳ Ḷ t _l v ṽ y ỹ z ž ź ż Ź z ʀ ʑ ʔ ʕ fi ffi	ss05=1

Character alternates

B hook

Affects: U+0181

Feature	Sample	Feature setting
Standard	Б	cv13=0
Lowercase-style	Б	cv13=1

D hook

Affects: U+018A

Feature	Sample	Feature setting
Standard	\mathcal{D}	cv17=0
Lowercase-style	\mathcal{d}	cv17=1



H stroke

Affects: U+0126

Feature	Sample	Feature setting
Standard	H	cv28=0
Vertical stroke	H	cv28=1

J stroke hook

Affects: U+0284

Feature	Sample	Feature setting
Standard		cv37=0
Top serif		cv37=1

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	ɲ	cv43=3

N left hook

Affects: U+019D

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

Open-O

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

Feature	Sample	Feature setting
Standard	Ɔ ɔ ɔ ɔ ɔ	cv46=0
Top serif	Ɔ ɔ ɔ ɔ ɔ	cv46=1

OU

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

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

p hook

Affects: U+01A5

Feature	Sample	Feature setting
Standard	Ɔ	cv49=0
Right hook	Ɔ	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	Ṯ	cv57=0
Right hook	ṹ	cv57=1

V hook

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

Feature	Sample	Feature setting
Standard	Ṫ ṽ ṽ	cv62=0
Straight with low hook	Ṽ ṽ ṽ	cv62=1
Straight with high hook	Ṷ ṽ ṽ	cv62=2

Y hook

Affects: U+01B3

Feature	Sample	Feature setting
Standard	Ȳ	cv68=0
Left hook	ȳ	cv68=1

Ezh

Affects: U+01B7 U+04E0

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

ezh curl

Affects: U+0293

Feature	Sample	Feature setting
Standard	Ʒ	cv19=0
Large bowl	Ʒ	cv19=1

Affects: U+0264

Diacritic and symbol alternates

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

Affects: U+0300 U+0301

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

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

Feature	Sample	Feature setting
Standard	đ Ľ ľ ě	cv77=0
Global-style	ď Ľ ľ ě	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 ǫ (ǫǫ)	cv82=0
Cyrillic-style	anything with ǫ (ǫǫ)	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.

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

Feature	Sample	Feature setting
Standard	б з ђ н м	
Serbian	đ ĩ g ū ū	lang='sr'

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

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	ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ	cv91=0
Numbers	5 4 3 2 1 5 4 3 2 1	cv91=1

Hide tone contour staves

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	ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ (ᵀ ᵀ)	cv92=0
Hide staves	˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ (ᵀ ᵀ)	cv92=1