

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 ǎ̠̄̇ ǎ̡̄̇ ǎ̢̄̇ ạ̌̄̇ ǎ̤̄̇ ḁ̌̄̇ ǎ̦̄̇ ǎ̧̄̇ ą̌̄̇ ǎ̩̄̇ ǎ̪̄̇ ǎ̫̄̇ ǎ̬̄̇ ǎ̭̄̇ ǎ̮̄̇ ǎ̯̄̇ ǎ̰̄̇ ǎ̱̄̇ ǎ̲̄̇ ǎ̳̄̇ ǎ̴̄̇ ǎ̵̄̇ ǎ̶̄̇ ǎ̷̄̇ ǎ̸̄̇ ǎ̹̄̇ ǎ̺̄̇ ǎ̻̄̇ ǎ̼̄̇ ǎ̄̽̇ ǎ̄̾̇ ǎ̄̿̇ ǎ̠̄̇̈́ ǎ̡̄̇̈́ ǎ̢̄̇̈́ ạ̌̄̇̈́ ǎ̤̄̇̈́ ḁ̌̄̇̈́ ǎ̦̄̇̈́ ǎ̧̄̇̈́ ą̌̄̇̈́ ǎ̩̄̇̈́ ǎ̪̄̇̈́ ǎ̫̄̇̈́ ǎ̬̄̇̈́ ǎ̭̄̇̈́ ǎ̮̄̇̈́ ǎ̯̄̇̈́ ǎ̰̄̇̈́ ǎ̱̄̇̈́ ǎ̲̄̇̈́ ǎ̳̄̇̈́ ǎ̴̄̇̈́ ǎ̵̄̇̈́ ǎ̶̄̇̈́ ǎ̷̄̇̈́ ǎ̸̄̇̈́ ǎ̹̄̇̈́ ǎ̺̄̇̈́ ǎ̻̄̇̈́ ǎ̼̄̇̈́ ǎ̄̽̇̈́ ǎ̄̾̇̈́ ǎ̄̿̇̈́ ǎ̠̄̇̇̈́ ǎ̡̄̇̇̈́ ǎ̢̄̇̇̈́ ạ̌̄̇̇̈́ ǎ̤̄̇̇̈́ ḁ̌̄̇̇̈́ ǎ̦̄̇̇̈́ ǎ̧̄̇̇̈́ ą̌̄̇̇̈́ ǎ̩̄̇̇̈́ ǎ̪̄̇̇̈́ ǎ̫̄̇̇̈́ ǎ̬̄̇̇̈́ ǎ̭̄̇̇̈́ ǎ̮̄̇̇̈́ ǎ̯̄̇̇̈́ ǎ̰̄̇̇̈́ ǎ̱̄̇̇̈́ ǎ̲̄̇̇̈́ ǎ̳̄̇̇̈́ ǎ̴̄̇̇̈́ ǎ̵̄̇̇̈́ ǎ̶̄̇̇̈́ ǎ̷̄̇̇̈́ ǎ̸̄̇̇̈́ ǎ̹̄̇̇̈́ ǎ̺̄̇̇̈́ ǎ̻̄̇̇̈́ ǎ̼̄̇̇̈́ ǎ̄̽̇̇̈́ ǎ̄̾̇̇̈́ ǎ̄̿̇̇̈́ ǎ̠̄̇̇̈́̇̈́ ǎ̡̄̇̇̈́̇̈́ ǎ̢̄̇̇̈́̇̈́ ạ̌̄̇̇̈́̇̈́ ǎ̤̄̇̇̈́̇̈́ ḁ̌̄̇̇̈́̇̈́ ǎ̦̄̇̇̈́̇̈́ ǎ̧̄̇̇̈́̇̈́ ą̌̄̇̇̈́̇̈́ ǎ̩̄̇̇̈́̇̈́ ǎ̪̄̇̇̈́̇̈́ ǎ̫̄̇̇̈́̇̈́ ǎ̬̄̇̇̈́̇̈́ ǎ̭̄̇̇̈́̇̈́ ǎ̮̄̇̇̈́̇̈́ ǎ̯̄̇̇̈́̇̈́ ǎ̰̄̇̇̈́̇̈́ ǎ̱̄̇̇̈́̇̈́ ǎ̲̄̇̇̈́̇̈́ ǎ̳̄̇̇̈́̇̈́ ǎ̴̄̇̇̈́̇̈́ ǎ̵̄̇̇̈́̇̈́ ǎ̶̄̇̇̈́̇̈́ ǎ̷̄̇̇̈́̇̈́ ǎ̸̄̇̇̈́̇̈́ ǎ̹̄̇̇̈́̇̈́ ǎ̺̄̇̇̈́̇̈́ ǎ̻̄̇̇̈́̇̈́ ǎ̼̄̇̇̈́̇̈́ ǎ̄̽̇̇̈́̇̈́ ǎ̄̾̇̇̈́̇̈́ ǎ̄̿̇̇̈́̇̈́ ǎ̠̄̇̇̈́̇̈́̇̈́ ǎ̡̄̇̇̈́̇̈́̇̈́ ǎ̢̄̇̇̈́̇̈́̇̈́ ạ̌̄̇̇̈́̇̈́̇̈́ ǎ̤̄̇̇̈́̇̈́̇̈́ ḁ̌̄̇̇̈́̇̈́̇̈́ ǎ̦̄̇̇̈́̇̈́̇̈́ ǎ̧̄̇̇̈́̇̈́̇̈́ ą̌̄̇̇̈́̇̈́̇̈́ ǎ̩̄̇̇̈́̇̈́̇̈́ ǎ̪̄̇̇̈́̇̈́̇̈́ ǎ̫̄̇̇̈́̇̈́̇̈́ ǎ̬̄̇̇̈́̇̈́̇̈́ ǎ̭̄̇̇̈́̇̈́̇̈́ ǎ̮̄̇̇̈́̇̈́̇̈́ ǎ̯̄̇̇̈́̇̈́̇̈́ ǎ̰̄̇̇̈́̇̈́̇̈́ ǎ̱̄̇̇̈́̇̈́̇̈́ ǎ̲̄̇̇̈́̇̈́̇̈́ ǎ̳̄̇̇̈́̇̈́̇̈́ ǎ̴̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̵̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̶̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̷̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̸̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̹̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̺̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̻̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̼̄̇̇̈́̇̈́̇̈́̇̈́ ǎ̄̽̇̇̈́̇̈́̇̈́̇̈́ ǎ̄̾̇̇̈́̇̈́̇̈́̇̈́ ǎ̄̿̇̇̈́̇̈́̇̈́̇̈́ ǎ̠̄̇̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̡̄̇̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̢̄̇̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̴̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̵̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̶̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̷̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̸̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̹̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̺̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̻̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̼̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̄̽̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̄̾̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̄̿̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̠̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̡̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̢̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̴̄̇̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́̇̈́ ǎ̵̄̇̇̈́	

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

Feature	Sample	Feature setting
Standard	a à á â ã ä å ā ă ą ǎ ǻ ǿ ầ ẩ ỏ ạ ả ấ ậ ẫ â ắ ằ ẳ ẵ ặ ø _a α α̊	ss11=0
Single-story	ɑ ̀ ́ ͂ ̓ ̈́ ͅ ͆ ͇ ͈ ͉ ͊ ͋ ͌ ͍ ͎ ͏ ͐ ͑ ͒ ͓ ͔ ͕ ͖ ͗ ͘ ͙ ͚ ͛ ͜ ͝ ͞ ͟ ͠ ͡ ͢ ͣ ͤ ͥ ͦ ͧ ͨ ͩ ͪ ͫ ͬ ͭ ͮ ͯ Ͱ ͱ Ͳ ͳ ʹ ͵ Ͷ ͷ ͸ ͹ ͺ ͻ ͼ ͽ Ϳ α α̊	ss11=1

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 g̃ ğ ġ ģ ḡ g̅ ğ ^g	ss12=0
Single-story	g ĥ ħ ĩ ĵ ĳ Ĵ Ĥ Ħ ^g	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

[illegible]

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	Ṳ	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

rams horn

Affects: U+0264

Feature	Sample	Feature setting
Standard	Ɣ	cv25=0
Large bowl	Ɔ	cv25=1
Small gamma	Ƨ	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 Ââ Ãã Ää Åå Ææ Èè Êê Ëë Óó Ồồ Ỗỗ Ỗỗ	cv75=0
Vietnamese-style	Ắắ Ằằ Ẳẳ Ẵẵ Ẳắ Ằằ Ẳẳ Ẵẵ Ếế Ềề Ểể Ễễ Ốố Ồồ Ỗỗ Ỗỗ	cv75=1

Kayan diacritics

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 ◌̇ (Ąą Ęę Ĳķ Ųų Ųų Ųų Ųų)	cv76=0
Straight	anything with ◌̇̇ (Ąą Ęę Ĳķ Ųų Ųų Ųų Ųų)	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	ǎ Ľ 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 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 ĭ g ū ū̄	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 ᵁ ᵂ ᵃ ᵄ ᵅ ᵆ ᵇ ᵈ	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 ᵁ ᵂ ᵃ ᵄ ᵅ ᵆ ᵇ ᵈ (ᵀ ᵁ)	cv92=0
Hide staves	˘ ˙ ˚ ˛ ˘ ˙ ˚ ˛ (ᵀ ᵁ)	cv92=1

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