

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	A ... 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	A ... Z (all capitals)	c2sc=1

Single-story a and g

This feature was formerly called 'Literacy alternates'.

Affects: U+0061 U+00AA 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	<p>a ^a à á â ã ä å ā ă ą ǎ ǎ̄ ǎ̄́ 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 ǎ̺̣̄ ǎ̻̣̄ ǎ̼̣̄ ạ̌̄̽ ạ̌̄̾ ạ̌̄̿ ǎ̺̣̄̂ ǎ̻̣̄̂ ǎ̼̣̄̂ ạ̌̄̽̂ ạ̌̄̾̂ ạ̌̄̿̂ ǎ̺̣̄̃ ǎ̻̣̄̃ ǎ̼̣̄̃ ạ̌̄̽̃ ạ̌̄̾̃ ạ̌̄̿̃ ǎ̺̣̄̄ ǎ̻̣̄̄ ǎ̼̣̄̄ ạ̌̄̽̄ ạ̌̄̾̄ ạ̌̄̿̄ ǎ̺̣̄̅ ǎ̻̣̄̅ ǎ̼̣̄̅ ạ̌̄̽̅ ạ̌̄̾̅ ạ̌̄̿̅ ǎ̺̣̄̆ ǎ̻̣̄̆ ǎ̼̣̄̆ ạ̌̄̽̆ ạ̌̄̾̆ ạ̌̄̿̆ ǎ̺̣̄̇ ǎ̻̣̄̇ ǎ̼̣̄̇ ạ̌̄̽̇ ạ̌̄̾̇ ạ̌̄̿̇ ǎ̺̣̄̈ ǎ̻̣̄̈ ǎ̼̣̄̈ ạ̌̄̽̈ ạ̌̄̾̈ ạ̌̄̿̈ ǎ̺̣̄̉ ǎ̻̣̄̉ ǎ̼̣̄̉ ạ̌̄̽̉ ạ̌̄̾̉ ạ̌̄̿̉ ǎ̺̣̄̊ ǎ̻̣̄̊ ǎ̼̣̄̊ ạ̌̄̽̊ ạ̌̄̾̊ ạ̌̄̿̊ ǎ̺̣̄̋ ǎ̻̣̄̋ ǎ̼̣̄̋ ạ̌̄̽̋ ạ̌̄̾̋ ạ̌̄̿̋ ǎ̺̣̄̌ ǎ̻̣̄̌ ǎ̼̣̄̌ ạ̌̄̽̌ ạ̌̄̾̌ ạ̌̄̿̌ ǎ̺̣̄̍ ǎ̻̣̄̍ ǎ̼̣̄̍ ạ̌̄̽̍ ạ̌̄̾̍ ạ̌̄̿̍ ǎ̺̣̄̎ ǎ̻̣̄̎ ǎ̼̣̄̎ ạ̌̄̽̎ ạ̌̄̾̎ ạ̌̄̿̎ ǎ̺̣̄̏ ǎ̻̣̄̏ ǎ̼̣̄̏ ạ̌̄̽̏ ạ̌̄̾̏ ạ̌̄̿̏ ǎ̺̣̄̐ ǎ̻̣̄̐ ǎ̼̣̄̐ ạ̌̄̽̐ ạ̌̄̾̐ ạ̌̄̿̐ ǎ̺̣̄̑ ǎ̻̣̄̑ ǎ̼̣̄̑ ạ̌̄̽̑ ạ̌̄̾̑ ạ̌̄̿̑ ǎ̺̣̄̒ ǎ̻̣̄̒ ǎ̼̣̄̒ ạ̌̄̽̒ ạ̌̄̾̒ ạ̌̄̿̒ ǎ̺̣̄̓ ǎ̻̣̄̓ ǎ̼̣̄̓ ạ̌̄̽̓ ạ̌̄̾̓ ạ̌̄̿̓ ǎ̺̣̄̔ ǎ̻̣̄̔ ǎ̼̣̄̔ ạ̌̄̽̔ ạ̌̄̾̔ 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Single-story a (only)

Affects: U+0061 U+00AA 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 ^a à á â ã ä å ā ă ą ǎ ǻ ǿ ǽ ầ ơ ỏ ợ ả ấ ề ẳ ẫ ậ ắ ằ ẵ ặ ɹ _a ᵃ ᵇ	ss11=0
Single-story	ɑ ^ɑ à á â ã ä å ā ă ą ǎ ǻ ǿ ǽ ầ ơ ỏ ợ ả ấ ề ẳ ẫ ậ ắ ằ ẵ ặ ɹ _α ᵃ ᵇ	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 ǵ ġ ģ ĥ ğ ɡ ȡ Ɠ ^g	ss12=0
Single-story	g ĝ ǵ ġ ģ ĥ ğ ɡ ȡ Ɠ ^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 ɓ ɠ	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	f	cv37=0
Top serif	f	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	ɴ	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	ɔ ɔ ɔ ɔ	cv47=0
Open	ɔ ɔ ɔ ɔ	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	Ť	cv57=0
Right hook	Ṭ	cv57=1

V hook

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

Feature	Sample	Feature setting
Standard	Ŭ ŵ ^ŵ	cv62=0
Straight with low hook	Ṳ ṳ ^ṵ	cv62=1
Straight with high hook	Ṵ Ṷ ^Ṹ	cv62=2

Y hook

Affects: U+01B3

Feature	Sample	Feature setting
Standard	Ÿ	cv68=0
Left hook	Ṳ	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

Clicks

Affects: U+01C0 U+01C1 U+01C2 U+2980

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

Kayan diacritics

Affects: U+0300 U+0301

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 ̣ (Ạa Ẹe Ị̇ı Ụu Q̣q Q̣̄q̄)	cv76=0
Straight	anything with ̣ (Ạa Ẹe Ị̇ı Ụu Q̣q Q̣̄q̄)	cv76=1

Caron

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

Feature	Sample	Feature setting
Standard	ď Ľ ľ ě	cv77=0
Global-style	ǎ Ľ ě 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	Э э	cv80=0
Mongolian-style	ᠡ ᠡ	cv80=1

Cyrillic shha

Affects: U+04BB

Feature	Sample	Feature setting
Standard		cv81=0

Feature	Sample	Feature setting
	h	
Uppercase-style	Ħ	cv81=1

Cyrillic breve

Affects: U+0306

Feature	Sample	Feature setting
Standard	anything with ǃ (ǃǃ)	cv82=0
Cyrillic-style	anything with ǃ (ǃǃ)	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 ū 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 ū 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 ū í	cv84=1

Tone alternates

Chinantec tones

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

Feature	Sample	Feature setting
Standard	˘ ˊ ˉ ˋ	cv90=0
Chinantec-style	˘ ˊ ˉ ˋ	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	ᵀ ᵀ 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

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	ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ (↗ ↘)	cv92=0
Hide staves	ˉ ˉ ˉ ˉ ˉ ˉ ˉ ˉ ˉ ˉ (^ ^)	cv92=1

Numeral alternates

Subscript numerals

This feature is not supported in TypeTuner Web.

Affects: U+0030 U+0031 U+0032 U+0033 U+0034 U+0035 U+0036 U+0037 U+0038 U+0039

Feature	Sample	Feature setting
Standard	0 1 2 3 4 5 6 7 8 9	subs=0
Subscript	₀ ₁ ₂ ₃ ₄ ₅ ₆ ₇ ₈ ₉	subs=1

Superscript numerals

This feature is not supported in TypeTuner Web.

Affects: U+0030 U+0031 U+0032 U+0033 U+0034 U+0035 U+0036 U+0037 U+0038 U+0039

Feature	Sample	Feature setting
Standard	0 1 2 3 4 5 6 7 8 9	sups=0
Superscript	⁰ ¹ ² ³ ⁴ ⁵ ⁶ ⁷ ⁸ ⁹	sups=1

Automatic fractions

When activated this feature will automatically create fractions when numerals are separated by either the fraction slash (U+2044) or the solidus (U+002F). This feature is not supported in TypeTuner Web.

Affects: U+0030 U+0031 U+0032 U+0033 U+0034 U+0035 U+0036 U+0037 U+0038 U+0039 U+002F U+2044

Feature	Sample	Feature setting
Standard (none)	$\frac{1}{2}$ $\frac{456}{789}$ 1/2 456/789	frac=0
Automatic	$\frac{1}{2}$ $\frac{456}{789}$ $\frac{1}{2}$ $\frac{456}{789}$	frac=1

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