

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

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

[illegible]

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 ǵ ğ ğ ğ ğ ğ ğ ğ ğ | ss12=0 |
| Single-story | g ĝ ǵ ğ ğ ğ ğ ğ ğ ğ ğ | 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 | Ṯ̃ | cv57=1 |

V hook

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

| Feature | Sample | Feature setting |
|-------------------------|-----------|-----------------|
| Standard | Ṫ ṽ ṽ̂ | cv62=0 |
| Straight with low hook | Ṭ̇ ṿ̃ ṿ̃̂ | cv62=1 |
| Straight with high hook | Ṫ̥ ṽ̥ ṽ̥̂ | cv62=2 |

Y hook

Affects: U+01B3

| Feature | Sample | Feature setting |
|-----------|--------|-----------------|
| Standard | Ȳ | cv68=0 |
| Left hook | Ȳ̃ | 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 | Ʒ | cv19=0 |
| Large bowl | Ʒ̃ | cv19=1 |

rams horn

Affects: U+0264

| Feature | Sample | Feature setting |
|-------------|--------|-----------------|
| Standard | Ƴ | cv25=0 |
| Large bowl | Ɔ | cv25=1 |
| Small gamma | Ʒ | 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 Ồồ Ổổ Ỗỗ | cv75=0 |
| Vietnamese-style | Ắắ Ằằ Ẳẳ Ẵẵ Ẳắ Ằằ Ẳẳ Ẵẵ Ếế Ềề Ểể Ễễ Ớớ Ồồ Ổổ 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 Ų̇ Ų̇) | cv76=0 |
| Straight | anything with ◌̇̇ (Ąą Ęę Ĳķ Ųų Ų̇ Ų̇) | 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 ǐ (ǐǐ) | cv82=0 |
| Cyrillic-style | anything with ǐ (ǐǐ) | 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 U+0453

| Feature | Sample | Feature setting |
|----------|-------------|-----------------|
| Standard | б з ђ н м љ | |
| Serbian | đ ĩ g ū w ī | 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.

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

| Feature | Sample | Feature setting |
|------------|-------------|-----------------|
| Standard | б з ђ н м љ | |
| Macedonian | đ ĩ g ū w ī | 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 љ | cv84=0 |
| Serbian Macedonian forms | đ ĩ g ū w ī | cv84=1 |

Tone alternates

Chinantec tones

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

| Feature | Sample | Feature setting |
|-----------------|---------|-----------------|
| Standard | ˘ ˙ ˚ ˇ | cv90=0 |
| Chinantec-style | ˘ ˙ ˚ ˇ | 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 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 (ᵀ ᵀ) | cv92=0 |
| Hide staves | - - - - - (ᵀ ᵀ) | cv92=1 |

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