

# Charis - Font Features

Charis 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](#).

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 as a web font see *Charis-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 and some bracketing punctuation

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 <sup>a</sup> 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 ǎ̺̤̄ ǎ̺̥̄ ǎ̺̦̄ ǎ̧̺̄ ą̺̌̄ ǎ̺̩̄ ǎ̺̪̄ ǎ̺̫̄ ǎ̺̬̄ ǎ̺̭̄ ǎ̺̮̄ ǎ̺̯̄ ǎ̺̰̄ ǎ̺̱̄ ǎ̺̲̄ ǎ̺̳̄ ǎ̴̺̄ ǎ̵̺̄ ǎ̶̺̄ ǎ̷̺̄ ǎ̸̺̄ ǎ̺̹̄ ǎ̺̺̄ ǎ̺̻̄ ǎ̺̼̄ ǎ̺̄̽ ǎ̺̄̾ ǎ̺̄̿ ǎ̺̺̣̄ ǎ̺̺̤̄ ǎ̺̺̥̄ ǎ̺̺̦̄ ǎ̧̺̺̄ ą̺̺̌̄ ǎ̺̺̩̄ ǎ̺̺̪̄ ǎ̺̺̫̄ ǎ̺̺̬̄ ǎ̺̺̭̄ ǎ̺̺̮̄ ǎ̺̺̯̄ ǎ̺̺̰̄ ǎ̺̺̱̄ ǎ̺̺̲̄ ǎ̺̺̳̄ ǎ̴̺̺̄ ǎ̵̺̺̄ ǎ̶̺̺̄ ǎ̷̺̺̄ ǎ̸̺̺̄ ǎ̺̺̹̄ ǎ̺̺̺̄ ǎ̺̺̻̄ ǎ̺̺̼̄ ǎ̺̺̄̽ ǎ̺̺̄̾ ǎ̺̺̄̿ ǎ̺̺̺̣̄ ǎ̺̺̺̤̄ ǎ̺̺̺̥̄ ǎ̺̺̺̦̄ ǎ̧̺̺̺̄ ą̺̺̺̌̄ ǎ̺̺̺̩̄ ǎ̺̺̺̪̄ ǎ̺̺̺̫̄ ǎ̺̺̺̬̄ ǎ̺̺̺̭̄ ǎ̺̺̺̮̄ ǎ̺̺̺̯̄ ǎ̺̺̺̰̄ ǎ̺̺̺̱̄ ǎ̺̺̺̲̄ ǎ̺̺̺̳̄ ǎ̴̺̺̺̄ ǎ̵̺̺̺̄ ǎ̶̺̺̺̄ ǎ̷̺̺̺̄ ǎ̸̺̺̺̄ ǎ̺̺̺̹̄ ǎ̺̺̺̺̄ ǎ̺̺̺̻̄ ǎ̺̺̺̼̄ ǎ̺̺̺̄̽ ǎ̺̺̺̄̾ ǎ̺̺̺̄̿ ǎ̺̺̺̺̣̄ ǎ̺̺̺̺̤̄ ǎ̺̺̺̺̥̄ ǎ̺̺̺̺̦̄ ǎ̧̺̺̺̺̄ ą̺̺̺̺̌̄ ǎ̺̺̺̺̩̄ ǎ̺̺̺̺̪̄ ǎ̺̺̺̺̫̄ ǎ̺̺̺̺̬̄ ǎ̺̺̺̺̭̄ ǎ̺̺̺̺̮̄ ǎ̺̺̺̺̯̄ ǎ̺̺̺̺̰̄ ǎ̺̺̺̺̱̄ ǎ̺̺̺̺̲̄ ǎ̺̺̺̺̳̄ ǎ̴̺̺̺̺̄ ǎ̵̺̺̺̺̄ ǎ̶̺̺̺̺̄ ǎ̷̺̺̺̺̄ ǎ̸̺̺̺̺̄ 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ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̰̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̱̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̲̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̳̄ ǎ̴̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄ ǎ̵̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄ ǎ̶̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄ ǎ̷̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄ ǎ̸̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̻̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̼̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄̽ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄̾ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̄̿ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̣̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̤̄ ǎ̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̺̥̄ ǎ̺̺̺</p>	

### 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 <sup>a</sup> à á â ã ä å ā ă ą ǎ ā ā á à â ã ä å ą ǎ ă á â ă ã â á à ă ă ă ă ø <sub>a</sub> <sup>a</sup> <sup>a</sup>	ss11=0
Single-story	a <sup>a</sup> à á â ã ä å ā ă ą ǎ ā ā á à â ã ä å ą ǎ ă á à ă ã â á à ă ă ă ø <sub>a</sub> <sup>a</sup> <sup>a</sup>	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 ğ ġ ǧ ɡ ĝ ġ ġ ġ	ss12=0
Single-story	g ĝ ǵ ğ ġ ǧ ɡ ɡ ġ ɡ ġ	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	Đ	cv17=0
Lowercase-style	đ	cv17=1

## H stroke

Affects: U+0126

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

**J stroke hook**

Affects: U+0284

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

**Eng**

Affects: U+014A

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

**N left hook**

Affects: U+019D

Feature	Sample	Feature setting
Standard	ɲ	cv44=0
Uppercase-style	N̊	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 <sup>8</sup>	cv47=0
Open	8 8 8 <sup>8</sup>	cv47=1

## p hook

Affects: U+01A5

Feature	Sample	Feature setting
Standard	þ	cv49=0
Right hook	þʳ	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	Ŧ	cv57=0
Right hook	Ŧʳ	cv57=1

## V hook

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

Feature	Sample	Feature setting
Standard	Ʋ Ƶ <sup>Ƶ</sup>	cv62=0
Straight with low hook	ƴ ƶ <sup>ƶ</sup>	cv62=1
Straight with high hook	Ʒ Ƹ <sup>Ƹ</sup>	cv62=2

Y hook

Affects: U+01B3

Feature	Sample	Feature setting
Standard	Ÿ	cv68=0
Left hook	Ŷ	cv68=1

Ezh

Affects: U+01B7 U+04E0

Feature	Sample	Feature setting
Standard	Ʒ ƶ	cv20=0
Reversed sigma	Ʒ ƶ	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 U+10791

Feature	Sample	Feature setting
Standard	𐍚 𐍚	cv25=0
Large bowl	𐍚 𐍚	cv25=1
Small gamma	𐍚 𐍚	cv25=2

Clicks

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

Feature	Sample	Feature setting
Standard (descending)	‡	cv69=0
Baseline	‡	cv69=1

## 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	ÁẤ Àầ Ẩẩ Ẫẫ Ấấ Ầầ Ẫẫ Ếế Ềề Ểể Ễễ Ớố Ồồ Ỗỗ Ỗỗ	cv75=0
Vietnamese-style	Ấấ Ầầ Ẩẩ ẫẫ Ấấ Ầầ Ẩẩ ẫẫ Ếế Ềề Ểể Ễễ Ớố 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 Ĳ Ĳ Qq Q̇q̇)	cv76=0
Straight	anything with ◌̣ (Ąą Ęę Ĳ Ĳ 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	ǎ Ľ ĺ ǎ	cv77=1

## Modifier apostrophe

Affects: U+02BB U+02BC U+02BD U+0312 U+0314 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 ǎ (ǎǎ)	cv82=0
Cyrillic-style	anything with ǎ (ǎǎ)	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 w ī 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 w ī 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. It cannot, however, be used to explicitly turn off these forms in text tagged as being in the Serbian or Macedonian languages.*

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 w ī 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	˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ (↗ ↘)	cv92=1

## Numeral alternates

### Proportional oldstyle figures

This feature only affects full-size numerals, not superscripts, subscripts, fractions, or numeral-based symbols.

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	onum=0
Oldstyle	0 1 2 3 4 5 6 7 8 9	onum=1

### 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	sup=0
Superscript	0 1 2 3 4 5 6 7 8 9	sup=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)	1/2 456/789 1/2 456/789	frac=0
Automatic	1/2 456/789 1/2 456/789	frac=1