# **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	$A  \ldots  Z$ (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+010E 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 ª à á â ã ä å ā ă ą ǎ ā ā å å à â à a a a a á ấ à ấ ã ậ ấ ằ ằ ẵ ặ ạ a ª ª g ĝ g g g g g g g g g	ss01=0
Single-story	a <sup>a</sup> à á â ã ä å ā ā ą ǎ ā̄ ā́ å à â à a d ạ d ấ à ẩ ã ậ ấ ằ ἄ ẵ ặ ø <sub>a</sub> <sup>a</sup> ᠲ g ĝ ğ ġ ġ ġ ġ g g <del>g</del> <sup>g</sup>	ss01=1

# 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 ā̄ ā̄ ấ à â à a a a a á â ầ â๋ ã̃ ậ ấ ằ ằ ẵ ặ ạ a ª ి	ss11=0
Single-story	a ª à á â ã ä å ā ă ą ǎ ā̄ ā̄ ǻ à̀ â â a a a a á ấ ầ ẩ ã ậ ấ ằ ἄ ẵ ặ ø a ª ᠲ	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 ğ ġ ģ ģ ģ g g g g	ss12=0
Single-story	g ĝ ğ ġ ģ ǧ g g ḡ � <sup>g</sup>	ss12=1

### **Barred-bowl forms**

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

Feature	Sample	Feature setting
Standard	đbg	ss04=0
Barred-bowl	d b g	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	aãàáâäåāăăāāååâaàaaåââåãậ ắằẳãạặøɒœffiìíîïīīĭ¡ĭìĵjíi¡¡lĺ! ḷḷḷt៉ v v v v z ź ż ż ż z z e ę Ę ę fiffi	ss05=0
Slanted	aãàáâäåāăăäāååâââàââââãáã ằằãaặaɐæfḟiìíîïĩīĭ¡ĭïîjïiilÍḷḷḷ llıvvvyzźżžzzғӻӺfiffi	ss05=1

# **Character alternates**

### **B** hook

Affects: U+0181

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

### D hook

Affects: U+018A

Feature	Sample	Feature setting
Standard	D	cv17=0
Lowercase- style	ď	cv17=1

# H stroke

Affects: U+0126

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

### J stroke hook

Affects: U+0284

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

# Eng

Affects: U+014A

Feature	Sample	Feature setting
Standard	ŋ	cv43=0
Lowercase style on baseline	n	cv43=1
Uppercase style with descender	Ŋ	cv43=2
Alt. lowercase style on baseline	<sub>D</sub>	cv43=3

# N left hook

Affects: U+019D

Feature	Sample	Feature setting
Standard	N	cv44=0
Lowercase- style	n	cv44=1

# Open-O

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

Feature	Sample	Feature setting
Standard	O o o o o	cv46=0
Top serif	c c C	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	8888	cv47=1

# p hook

Affects: U+01A5

Feature	Sample	Feature setting
Standard	β	cv49=0
Right hook	p°	cv49=1

# R tail

Affects: U+2C64

Feature	Sample	Feature setting
Standard	R	cv55=0
Lowercase- style	τ	cv55=1

# T hook

Affects: U+01AC

Feature	Sample	Feature setting
Standard	Т	cv57=0
Right hook	Т	cv57=1

# V hook

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

Feature	Sample	Feature setting
Standard	<b>υ</b> υ <sup>υ</sup>	cv62=0
Straight with low hook	Vν <sup>ν</sup>	cv62=1
Straight with high hook	V v <sup>v</sup>	cv62=2

### Y hook

Affects: U+01B3

Feature	Sample	Feature setting
Standard	Y	cv68=0
Left hook	Υ	cv68=1

### Ezh

Affects: U+01B7 U+04E0

Feature	Sample	Feature setting
Standard	33	cv20=0
Reversed sigma	ΣΣ	cv20=1

# ezh curl

Affects: U+0293

Feature	Sample	Feature setting
Standard	3	cv19=0
Large bowl	3	cv19=1

# rams horn

Affects: U+0264 U+10791

Feature	Sample	Feature setting
Standard	<b>%</b> <sup>«</sup>	cv25=0
Large bowl	<b>で</b> <sup>で</sup>	cv25=1
Small gamma	γ <sup>γ</sup>	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+1EA4 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	ấấ Àầ Ẩẩ Ấã Ấắ Àằ Ảẳ Ẫẵ Ếế Èề Ểể Ễễ Ốố Òồ Ổổ ỗỗ	cv75=0
Vietnamese- style	ấấ ầầ Ẩẩ Ấã ắắ ằằ ẳẳ ẵẵ ếế ềề ểể ễễ ốố ồồ ổổ ỗỗ	cv75=1

### **Kayan diacritics**

Affects: U+0300 U+0301

Feature	Sample	Feature setting
Standard	<b>ં</b>	cv79=0
Side by side	<b>č</b>	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 $\wp$ (Ąą Ęę Įį Ųų Qo $ar{Q}ar{Q}$ )	cv76=0
Straight	anything with $_{ ho}$ (Ąą Ęę Įį Ųų Q $_{ ho}$ $ar{Q}$ $ar{Q}$ )	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	^ť	cv77=1

# **Modifier apostrophe**

Affects: U+02BC U+0312 U+0314 U+A78B U+A78C

Feature	Sample	Feature setting
Standard	·" 1 <sub>1</sub>	cv70=0
Large	³ <sup>°°</sup> 1 <sub>1</sub>	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	Ø	cv98=0
Zero-style	Ø	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	Ээ	cv80=0
Mongolian- style	Ээ	cv80=1

# Cyrillic shha

Affects: U+04BB

Feature	Sample	Feature setting
Standard	h	cv81=0
Uppercase- style	h	cv81=1

### **Cyrillic breve**

Affects: U+0306

Feature	Sample	Feature setting
Standard	anything with ŏ (ðə)	cv82=0
Cyrillic-style	anything with ് (ðँð)	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	бεdnmé	
Serbian	$\delta$ ī $g$ $ar{u}$ $ar{u}$	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	бгдптѓ	
Macedonian	$\delta$ ī $g$ $\bar{u}$ $\bar{w}$ $\acute{t}$	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	бг <b>дпт</b> ѓ	cv84=0
Serbian Macedonian forms	$\delta$ ī $g$ $\bar{u}$ $\bar{u}$ $\acute{t}$	cv84=1

### **Tone alternates**

### **Chinantec tones**

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

Feature	Sample	Feature setting
Standard	\   - /	cv90=0
Chinantec- style	<b>\    - /</b>	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	14411441	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	11417[t+fr(\/\\\)	cv92=0
Hide staves	<sub>-</sub> (	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	0123456789	onum=0
Oldstyle	0123456789	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	0123456789	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)	1/2 456/789 1/2 456/789	frac=0
Automatic	1/2 456/789 1/2 456/789	frac=1

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