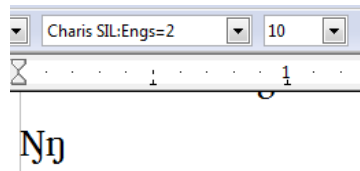
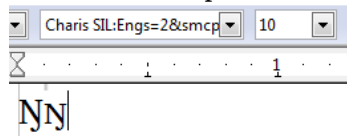


Font Features for Charis SIL

When Charis SIL is used in applications that support Graphite, and that provide an appropriate user interface, various user-controllable font features are available that allow access to alternatively-designed glyphs that might be preferable for use in some contexts. In LibreOffice 3.4.2+ (<http://www.libreoffice.org/download/>) or OpenOffice 3.2+ (<http://www.openoffice.org/download/>) the font features can be turned on by choosing the font (ie Charis SIL), followed by a colon, followed by the feature ID, and then followed by the feature setting. So, for example, if the Uppercase eng alternate “Capital N with tail” is desired, the font selection would be “Charis SIL:Engs=2”. (The Feature IDs have changed. If you already have documents which specify the Feature IDs as digits, you will need to change from digits to text. Both are documented in the table below. We are very sorry for the inconvenience.)



If you wish to apply two (or more) features, you can separate them with an “&”. Thus, “Charis SIL:Engs=2&smcp=1” would apply “Capital N with tail” plus the “Small capitals” feature.



These same features are also available in OpenType. The OpenType feature IDs (“cvxx” for “Character Variant” and “ssxx” for “Stylistic Set”) are listed in the OpenType feature ID column. However, they are only available in a few applications. Mozilla Firefox (<https://www.mozilla.org/firefox>) is the only application that currently supports Character Variants. Adobe InDesign, Microsoft Word, Microsoft Publisher and Mozilla Firefox support Stylistic Sets.

A glyph palette is available for accessing the alternate glyphs in some applications such as Adobe InDesign.

Ideally the selection of these font features is done in application programs, but many applications do not yet support this functionality. In response to this lack of support for features, a program called TypeTuner (command line version: <http://scripts.sil.org/TypeTuner> and web-based version: <http://scripts.sil.org/ttw>) allows users to create derivative fonts with their own feature settings based on the needs of a local project or region.

In the table below, upper and lower case pairs are shown (if they exist), even if the feature only affects one or the other. This is in order to see how the whole pair looks when a feature is applied. The following font features are available in Charis SIL:

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes ¹
Language specific						
Vietnamese-style diacritics (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)	cv75	viet (old:1029)	0=False	Áá Àà Ăă Ãã Ää Åå Ææ Éé Èè Êê Ëë Óó Òò Ôô Õõ	ÁÁ ÀÀ ĂĂ ÃÃ ÄÄ ÅÅ ÆÆ ÉÉ ÈÈ ÊÊ ËË ÓÓ ÒÒ ÔÔ ÕÕ	R, O
			1=Vietnamese-style	Áấ Àầ Ắắ Ẫẫ Ắắ Ẫầ Ắắ Ẫẫ Ếế Èề Êể Ễễ Ốố Òò Ổổ Ỗỗ	Áấ Àầ Ắắ Ẫẫ Ắắ Ẫầ Ắắ Ẫẫ Ếế Èề Êể Ễễ Ềề Ểể Ễễ Ốố Òò Ổổ Ỗỗ	
Serbian-style alternates (U+0431 U+0433 U+0434 U+043F U+0442)	iocl (accessed through Serbian language)	serb	0=False	Бб Гг Дд Пп Тт	ББ ГГ ДД ПП ТТ	R
			1=True	Б̂б̂ Г̂г̂ Д̂д̂ П̂п̂ Т̂т̂	Б̂Б̂ Г̂Г̂ Д̂Д̂ П̂П̂ Т̂Т̂	
Chinantec tones (U+02CB U+02C8 U+02C9 U+02CA)	cv90	chtn (old:1057)	0=False	˘ ˙ ˚	Small capitals are not available as there is no uppercase equivalent	R
			1=Chinantec-style	˘ ˙ ˚		
Bridging diacritics (U+0308 – used with ‘L’ and ‘l’; U+0311, U+0361 and U+035F – used with ‘O’, ‘o’, ‘U’ and ‘u’.)	-	brig (old:1052)	0=False	Naso: L̈L̈ İ̈ İ̈ L̈L̈ Konai: Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü	Small capitals do not work properly	G
			1=True	Naso: L̈L̈ İ̈ İ̈ L̈L̈ Konai: Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü		

¹**TypeTuner legend:** **R**=glyphs are Reencoded (will work with dumb rendering); **O**=OpenType rules are activated; **G**=Graphite-only feature (All features are available for Graphite applications.); **T**=Only available through TypeTuner (<http://scripts.sil.org/TypeTuner>) or TypeTuner Web (<http://scripts.sil.org/ttw>).

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Cyrillic²						
Mongolian-style Cyrillic E (U+042D U+044D)	cv80	mone (old:1027)	0=False	Әә	Әә	R
			1=Mongolian-style	Әә	Әә	
Combining breve Cyrillic form (U+0306)	cv82	sbrv (old:1028)	0=False	anything with ӱ (ӱӱ)	anything with ӱ (ӱӱ)	R (no effect if data is NFC)
			1=Cyrillic-style	anything with ӱ (ӱӱ)	anything with ӱ (ӱӱ)	
Cyrillic shha alternate (U+04BB)	cv81	shha (old:1056)	0=False	ҺҺ	ҺҺ	R
			1=Uppercase style	ҺҺ	ҺҺ	
Tone-related						
Tone numbers (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716)	cv91	tone (old:1026)	0=Bars	᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘	Small capitals are not available as there is no uppercase equivalent	G
			1=Numbers	5 4 3 2 1 5 4 3 2 1		
Hide tone contour staves (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716)	cv92	tslv (old:1050)	0=False	᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘ ᠘ (Λ Λ)	Small capitals are not available as there is no uppercase equivalent	G
			1=True	----- (Λ Λ)		
9-level pitches (U+F1F1 U+F1F2 U+F1F3 U+F1F4 U+F1F5 U+F1F6 U+F1F7 U+F1F8 U+F1F9)	-	pit9 (old:1062)	0=No tramlines	_____ (Λ Λ)	Small capitals are not available as there is no uppercase equivalent	G
			1=Tramlines	_____ (Λ Λ)		
			2=Non-ligated with no tramlines	_____ (Λ Λ)		
			3=Non-ligated with tramlines	_____ (Λ Λ)		

² There are also Cyrillic characters affected by the “Capital Ezh alternates”, “Small capitals” and “Show deprecated PUA” features. Some languages may also use the “Modifier apostrophe alternates.”

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Miscellaneous						
Literacy alternates (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)	ss01	litr (old:1032)	0=False (default)	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Ȧț Ǻǻ Āā Āā ǺǺ Āā	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ ĂĂ ȦȦ ǺǺ ĀĀ ĀĀ ǺǺ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ǺǺ ĀĀ	R
			1=True	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Ȧț Ǻǻ Āā Āā ǺǺ Āā	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ ĂĂ ȦȦ ǺǺ ĀĀ ĀĀ ǺǺ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ĀĀ ǺǺ ĀĀ	
Barred-bowl forms (U+0111 U+0180 U+01E5)	ss04	bowl (old:1031)	0=False	Đđ Bb Gg	ĐĐ BB GG	R
			1=Barred-bowl	Đđ Bb Gg	ĐĐ BB GG	

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Slant italic specials (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)	ss05	Ital (old:1053)	0=False	<i>Aa Ãã Àà Áá Ââ Ää Åå Āā Ăă Ǻǻ Ḃḃ</i> <i>Āā Áá Àà Ââ Ææ Āā Ǻǻ Ḃḃ</i> <i>ĀĀ ÁÁ ÀÀ ÂÂ ÄÄ ÅÅ ĀĀ Ăă Ǻǻ Ḃḃ</i> <i>Ī ī Ĭ ĩ Ī ī Ĵ ĵ Ķ ķ Ļ ļ Ŀ ŀ Ĳ ĳ Ĵ ĵ Ķ ķ Ļ ļ Ŀ ŀ Ĳ ĳ</i> <i>Ŷ ŷ Ÿ Ź ź Ż ż Ź ź Ź ź</i> <i>Źź Żż Źż Fƒ Ƒƒ ƣƣ fi ffi</i>	<i>AA ÃÃ ÀÀ ÁÁ ÂÂ ÄÄ ÅÅ ĀĀ Ăă Ǻǻ Ḃḃ</i> <i>ĂĂ ĂĂ ĀĀ ÁÁ ÀÀ ÂÂ Ææ ĀĀ Ǻǻ Ḃḃ</i> <i>ĀĀ ÁÁ ÀÀ ÁÁ ĀĀ Ǻǻ Ǻǻ ÁÁ ÀÀ ĀĀ</i> <i>Ī Ī Ĭ Ĭ Ī Ī Ĵ Ĵ Ķ Ķ Ļ Ļ Ŀ ŀ Ĳ Ĳ Ĵ Ĵ Ķ Ķ Ļ Ļ Ŀ ŀ Ĳ Ĳ</i> <i>Ŷ Ŷ ŷ ŷ Ÿ Ÿ Ź Ź Ź Ź Ź Ź Ź Ź</i> <i>ŹŹ ŹŹ ŹŹ Fƒ Ƒƒ ƣƒ fi ffi</i>	R
			1=True	<i>Aa Ãã Àà Áá Ââ Ää Åå Āā Ăă Ǻǻ Ḃḃ</i> <i>Āā Áá Àà Ââ Ææ Āā Ǻǻ Ḃḃ</i> <i>ĀĀ ÁÁ ÀÀ ÁÁ ĀĀ Ǻǻ Ǻǻ Ḃḃ</i> <i>Ī ī Ĭ ĩ Ī ī Ĵ ĵ Ķ ķ Ļ ļ Ŀ ŀ Ĳ ĳ Ĵ ĵ Ķ ķ Ļ ļ Ŀ ŀ Ĳ ĳ</i> <i>Ŷ ŷ Ÿ Ź ź Ż ż Ź ź Ź ź</i> <i>Źź Żż Źż Fƒ Ƒƒ ƣƒ fi ffi</i>	<i>AA ÃÃ ÀÀ ÁÁ ÂÂ ÄÄ ÅÅ ĀĀ Ăă Ǻǻ Ḃḃ</i> <i>ĂĂ ĂĂ ĀĀ ÁÁ ÀÀ ÂÂ Ææ ĀĀ Ǻǻ Ḃḃ</i> <i>ĀĀ ÁÁ ÀÀ ÁÁ ĀĀ Ǻǻ Ǻǻ Ḃḃ</i> <i>Ī Ī Ĭ Ĭ Ī Ī Ĵ Ĵ Ķ Ķ Ļ Ļ Ŀ ŀ Ĳ Ĳ Ĵ Ĵ Ķ Ķ Ļ Ļ Ŀ ŀ Ĳ Ĳ</i> <i>Ŷ Ŷ ŷ ŷ Ÿ Ÿ Ź Ź Ź Ź Ź Ź Ź Ź</i> <i>ŹŹ ŹŹ ŹŹ Fƒ Ƒƒ ƣƒ fi ffi</i>	FFI
Non-European caron alternates (U+0164 U+0165 U+010E U+010F U+013D U+013E)	cv77	carn (old:1063)	0=European style	<i>Ťť Ďď Ľľ</i>	<i>ŤŤ ĎĎ ĽĽ</i>	R
			1=Non-European style	<i>Ťť Ďď Ľľ</i>	<i>ŤŤ ĎĎ Ľľ</i>	
Ogonek alternate (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)	cv76	ogon (old:1043)	0=Curved	anything with ą (ąĄ ęĘ ıİ ůų ōō)	anything with ą (ąĄ ęĘ ıİ ůų ōō)	R
			1=Straight	anything with ą (ąĄ ęĘ ıİ ůų ōō)	anything with ą (ąĄ ęĘ ıİ ůų ōō)	
Capital B-hook alternate (U+0181)	cv13	B_hk (old:1064)	0=Uppercase style	ḂḂ	ḂḂ	R

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
			1=Lowercase style	Бб	ББ	
Capital D-hook alternate (U+018A)	cv17	D_hk	0=Uppercase style	ƆƆ	ƆƆ	R
			1=Lowercase style	ɔɔ	ɔɔ	
Rams horn alternates (U+0264)	cv25	ramh (old:1025)	0=Small bowl	ʀ	Small capitals are not available as there is no uppercase equivalent	R
			1=Large bowl	ʀ		
			2=Small gamma	ʀ		
Capital H-stroke alternate (U+0126)	cv28	Hstk (old:1038)	0=False	ĤĤ	ĤĤ	R
			1=Vertical-stroke	ĤĤ	ĤĤ	
J-stroke hook alternate (U+0284)	cv37	Jstk (old:1049)	0=No serif	ƒ	Small capitals are not available as there is no uppercase equivalent	R
			1=Top serif	ƒ		
Uppercase Eng alternates (U+014A)	cv43	Engs (old:1024)	0= Large eng with descender	ŊŊ	ŊŊ	R
			1=Large eng on baseline	ŊŊ	ŊŊ	
			2=Capital N with tail	ŊŊ	ŊŊ	
			3=Large eng with short stem	ŊŊ	ŊŊ	
Capital N-left-hook alternate (U+019D)	cv44	N_hk (old:1035)	0=Uppercase style	ŊŊ	ŊŊ	R
			1=Lowercase style	ŊŊ	ŊŊ	
Open-O alternate (U+0186 U+0254 U+1D10 U+1D53 U+1D97)	cv46	opnO (old:1059)	0=Bottom serif	Ɔ ɔ ʀ ɔ	Ɔ ɔ ʀ ɔ	R
			1=Top serif	Ɔ ɔ ʀ ɔ	Ɔ ɔ ʀ ɔ	
Small p-hook alternate (U+01A5)	cv49	p_hk (old:1040)	0=Left hook	ƆƆ	ƆƆ	R

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
			1=Right hook	Pp	PP	
Capital R-tail alternate (U+2C64)	cv55	R_tl (old:1039)	0=Uppercase style	Rr	RR	R
			1=Lowercase style	rr	rr	
Capital T-hook alternate (U+01AC)	cv57	T_hk (old:1037)	0=Left hook	Tt	TT	R
			1=Right hook	Tt	TT	
V-hook alternates (U+01B2 U+028B U+1DB9)	cv62	v_hk: (old:1033)	0=Curved	Uu ^v	UU ^v	R
			1=Straight with low hook	Vv ^v	VV ^v	
			2=Straight with high hook	Vv ^v	VV ^v	
Capital Y-hook alternate (U+01B3)	cv68	Y_hk (old:1034)	1=Right hook	Yy	YY	R
			0=Left hook	Yy	YY	
Small ezh-curl alternate (U+0293)	cv19	ezhc (old:1036)	0=Small bowl	Ʒ	Small capitals are not available as there is no uppercase equivalent	R
			1=Large bowl	Ʒ		
Capital Ezh alternates (U+01B7 U+04E0)	cv20	Ezhr (old:1042)	0=Normal	ƷƷ ƷƷ	ƷƷ ƷƷ	R
			1=Reversed sigma	ƷƷ ƷƷ	ƷƷ ƷƷ	
OU alternates (U+0222 U+0223 U+1D3D U+1D15)	cv47	opOU (old:1045)	0=Closed	888 ⁸	888 ⁸	R
			1=Open	888 ⁸	888 ⁸	
Modifier apostrophe alternates (U+02BC U+A78B U=A78C)	cv70	apos (old:1044)	0=Small	’ ıı	Small capitals are not available	R
			1=Large	’ ıı		
Modifier colon alternate (U+A789)	cv71	coln (old:1047)	0=Tight	:	Small capitals are not available as there is no	R

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
				<p>Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю Я È Ħ Ğ Ğ Ĩ Ĩ Ĵ Л Њ Ћ Ќ Й Ў Џ Ё Ў Ў Ў Ў Ў Ў Ў Ў Ў Ў Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ</p>	<p>Ќ Ʒ W Ɔ Ʒ Ħ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ A A A Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Q Q Ɔ Ɔ W W Ɔ Ɔ P Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ P P Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ Ɔ A B V Γ Δ E Ж З И Й К Л М Н О П Р С Т У Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю Я È Ħ Ğ Ğ Ĩ Ĩ Ĵ Л Њ Ћ Ќ Й Ў Џ Ё Ў Ў Ў Ў Ў Ў Ў Ў Ў Ў Ў Ў Ў Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Ќ Й Й Ö Ö Ö Û Ü Ý Ĵ Ĵ Ĵ Ĵ Ĵ Ĵ Ɔ Ɔ Ɔ Л Њ G T E J X K Я Q W К Ќ Ћ Ќ Ħ Ĵ Ĵ Ĵ</p>	
Other Features						
Line spacing	-	-	Normal Tight Loose	Allows for adjustment of the default line spacing in the font.		Г