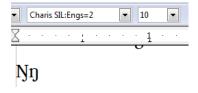
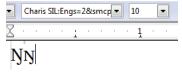
Font Features for Charis SIL

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.



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/TypeTuner and web-based version: http://scripts.sil.org/tw) 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	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+1EBB U+1EB1 U+1EB2 U+1EB3 U+1EB5 U+1EB5 U+1EB5 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 1ED7)	viet (old:1029)	0=False	Áá Àà Ảả Ãã Áá Àà Àà Åà Ãã ÉÉ ÈÈ ÉÉ ÕÓ ÒÒ ÔÔ Õõ	Âấ Âầ Âẩ Ãã Áá Àầ ÅảÃã ÉÉ ÈÈ ÈÈ ĒĒ ÓÓ ÒÒÔổ ÕÕ	R, O
		1=True	ấấ ầầ Ẩẩ Ấã Ấắ ằắ ẳắ ẵẵ ếế ềề ểể ễẽ ốố ồò ổổ ỗõ	 ÁÁ ÀÀ ÁẢ ÃÃ ÁÁ ÅÀ ÅÅ ÃÃ ÉÉ ÈÈ ÉÉ ÉÉ ÓÓ ÒÒ Ôổ ÕÕ² 	
	romn (old:1041)	0=False	Şş Ţţ	ŞŞ ŢŢ	R, O
		1=True	Şş Ţţ	ŞŞ ŢŢ	
Chinantec tones (U+02CB U+02C8 U+02C9 U+02CA)	(old:1057)	0=False	\ I - /	Small capitals are not available as there is no uppercase equivalent	R
		1=True	\1-/	_ there is no uppercase equivalent	
Bridging diacritics (U+0308 – used with "L" and "r, U+0311, U+0361 and U+035F – used with "O", "o", "U" and "u".)	brig (old:1052)	0=False 1=True	Naso: LL ll Ll Konai: ÔU Ôu ôu ÔU Ôu ôu OU Ou ou OU Ou ou Naso: LL ll Ll Konai: ÔU Ou ou OÙ Ou ou OU Ou ou OÙ Ou ou	Small capitals do not work properly	G

¹TypeTuner 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).

²There is currently a bug in the Graphite smarts in this font. You cannot select both Small Caps and Vietnamese diacritics. You can get access to this feature through TypeTuner.

Feature Name	Feature ID	Feature Setting	Example Example	xample with Small Capitals	TypeTuner Notes
Cyrillic ³					
Mongolian-style Cyrillic E (U+042D U+044D)	mone (old:1027)	0=False	Ээ	9	R
		1=True	Ээ Э	9	
Combining breve Cyrillic form (U+0306)	sbrv (old:1028)	0=False	anything with ੱ (ðੱð)	nything with ് (ðð)	R (no effect if data is NFC)
		1=True	anything with ੱ (ðð)	nything with ് (ðð)	
Cyrillic shha alternate (U+04BB)	shha (old:1056)	0=False	hh h	ıħ	R
		1=True	hь	ıh	
Tone-related					
Tone numbers (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712	tone (old:1026)	0=False		Small capitals are not available as there is no uppercase equivalent	G
U+A713 U+A714 U+A715 U+A716)		1=True	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	tstv (old:1050)	0=False		Small capitals are not available as there is no uppercase equivalent	G
U+A713 U+A714 U+A715 U+A716)		1=True	1144J[FFF[(\shape \shape)		
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=Ligated		mall capitals are not available as pere is no uppercase equivalent	G
U+F1F7 U+F1F6 U+F1F9)		1=Show tramlines	(\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}		
		2=Non-ligated	()		
		3=Show tramlines, non- ligated			

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	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+0067 U+011D U+011F U+0121 U+0123 U+01E7 U+01F5 U+01E5 U+1E21)	litr (old:1032)	0=False	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Ąą Ăă Āā Āā Ấå Äå Ââ Àa Ąa ả Ạạ Ảa Ấấ Ââ Ââ Ãã Ậậ Ấắ Àằ Ảa Ãã Ặặ Ấa Gg Ĝĝ Ğğ Ġġ Ģģ Ğğ Gg Gg	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ ĂĂ ĄĄ ĂĂ ĀĀ ĀĀ ÁÅ ÀÀ ÂÂ ÀÀ AA A A AA ÅA ÁÁ ÀÀ ÅÀ ÅÅ ÃÃ ÁÄ ÅÅ ÄÄ ÄÄ ÄÄ ÄÄ GG ĜĜ ĞĞ ĠĠ ĢĢ ĞĞ ĠĠ GG ĀG	R
		1=True	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Ąą Ăă Āā Āā Ấắ Àà Ââ Àà ৡa à Ạạ Ảả Ấấ Àà Ẩả Ãã Ậặ Ấắ Àắ Åắ Ãã Ặặ ൯ơ Gg Ĝĝ Ğğ Ġġ Ģģ Ğğ Gġ Gġ	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ ĂĂ ĄĄ ĂĂ ĀĀ ĀĀ ÁÅ ÄÄ ÂÂ ÀA AA A AA Å AA ÅÅ ÂÂ ÀÀ ÅÅ ÅÅ ÃÃ ÁÃ ŠÄ ÅÅ ŠÄ ŠÄ ŠÄ ŠĞ ĞĞ ĞĞ ĠĠ ĢĢ ĞĞ ĠĠ GG ĀĞ	
Barred-bowl forms (U+0111 U+0180 U+01E5)	(old:1031)	0=False	Đđ Bồ Gg	ĐĐ BB GG	R
		1=True	Đd Bb Gg	ÐĐ Bв GG	
Slant italic specials (U+0061 U+00E3 U+00E0 U+00E1 U+00E2 U+00E4 U+00E5 U+0101 U+0103 U+010E U+01DF U+01E1 U+01FB U+0201 U+0203 U+0227 U+1E01 U+1E9A U+1EA5 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+0066 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)	ital (old:1053)	0=False	Aa Ãã Àà Áá Ââ Ää Åå Āā Ăā Ăă Äā Āā Áắ Âå Ââ Ââ Àa Ąa ả Ảa Ấâ Àà Ẩâ Ãã Ậặ Ắắ Àằ Åắ Ãã Ąạ Ặặ ઋø v Æœ Ff Ff Ii Ìì Íí Îî Ïï Ĩī Īī Iī Iǐ Ii Ĭì Ĩî Iī Ii Ïï أî Ii II II Ll Ĺĺ Lḷ ፲ḷ Lḷ Lḷ Vv Ũv Yv Zz Źź Żż Žž Źz Zz Fe Fę Fę	AA ÃÃ ÀÀ ÁÁ ÂÂ ÄÄ ÅÅ ĀĀ ĂĂ ĂĂ ÄÄ ĀĀ ÁÁ ÂÂ ÂÂ ÀA AA À ÁÁ ÁÁ ÀÀ ÂÂ ÃÃ ÂÃ ÁÃ ĂĂ ÅĂ ÅĂ ĂĂ ĀA ĂĂ ÆA V ÆÆ FF FF II ÌÌ ÍÍ ÎÎ ÏÏ ĨĪ ĪĬ ĮĮ ĬĬ ÌÌ ÎÎ ĮĮ ÍÏ ÍI ĮĮ II LL ĹĹ ĮĮ ĮĮ LĮ	R

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
				LL Vv ŨŨ ŅŅ ZZ ŹŹ ŻŻ	
				ŽŽ ŽŽ ZZ ZZ FF FF FF	
		1=True	Aa Ãã Àà Áá Ââ Ää Åå Āā Ăā Ăă Āā Åå Àà Ââ	AA ÃÃ ÀÀ ÁÁ ÂÂ ÄÄ ÅÅ ĀĀ ĂĂ ĂĂ ÄÄ ĀĀ ĀĀ ÁÅ ÄÄ	
			Àà Ậạ ả Ảả Ấấ Àà Ảẩ Ãã Ậậ Ắắ Àà Åắ Ăẵ Ḥạ Ḥặ		
			Ĺĺ Ļḷ Ļḷ Ļḷ Ļḷ Vv Ũv Vv Zz Źź Żż Žž Žž Zz Zz FF ӺӺ Ӻ		
				ạạ ặặ 🗚 v Ææ Ff Ff	
				וֹ זֹוֹ זֹוֹ זֹוֹ זֹוֹ זֹוֹ זֹוֹ זֹוֹ ז	
				ŢĨ ĮĻĮŢŢĪ ŢĪ ŢĪ ŢĪ ŢĪ ŢĪ ŢĪ	
				ĻĻ Vv Ũữ Ųy Zz Źź Żż	
				Žž ŽŽ ZZ ZZ FF FF FF	
Non-European caron alternates (U+0164 U+0165 U+010E U+010F U+013D U+013E)	carn (old:1063)	0=False	Ťť Ďď Ľľ	ŤŤ ĎĎ ĽĽ	R
		1=True	Ťť Ďď Ľľ	ŤŤ ĎĎ ĽĽ	
Ogonek alternate (U+0328 U+0104 U+0105 U+0118 U+0119 U+012E U+012F	ogon (old:1043)	0=Curved	anything with ${\circ}$ (Aa Ee Ii Uu Qo Qo)	anything with	R
U+0172 U+0173 U+01EA U+01EB U+01EC U+01ED)				Qo ŌŌ)	
		1=Straight	anything with ${}_{\!$	anything with ૄ (ĄĄ ĘĘ ĮĮ ŲŲ	
				$\mathrm{Qo}\; ar{\mathrm{Q}}ar{\mathrm{Q}})^{\scriptscriptstyle 4}$	
Capital B-hook alternate (U+0181)	B_hk (old:1064)	0=False	В6	Вв	R
		1=True	Бб	Бь	

⁴There is currently a bug in the Graphite smarts in this font. You cannot select both Small Caps and Ogonek alternates. You can get access to this feature through TypeTuner.

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Rams horn alternates (U+0264) ramh (old:1025)	ramh (old:1025)	0=Small bowl	Y	Small capitals are not available as there is no uppercase equivalent	R
		1=Large bowl	δ		
		2=Small gamma	Y		
Capital H-stroke alternate (U+0126)	Hstk (old:1038)	0=Horizontal stroke	Ħħ	ĦĦ	R
		1=Vertical stroke	Нћ	Нн	
J stroke hook alternate (U+0284)	Jstk (old:1049)	0=No serif	f	Small capitals are not available as there is no uppercase equivalent	R
		1=Top serif	f	unere is no apperease equivalent	
Uppercase Eng alternates (U+014A) Engs (old:102	Engs (old:1024)	0= Large eng with descender	Ŋŋ	ŋŋ	R
		1=Large eng on baseline	Dŋ	ตต	
		2=Capital N with tail	Ŋŋ	ŊŊ	
		3=Large eng with short stem	Ðŋ	ອອ	
Capital N-left-hook alternate (U+019D)	N_hk (old:1035)	0=Uppercase style	Ŋŋ	NN	R
		1=Lowercase style	Որ	Ŋŋ	
Open o alternate (U+0186 U+0254 U+1D10 U+1D53 U+1D97)	opnO (old:1059)	0=Bottom serif	၁ ၁ ၁ ^၁ ၃	Oo o o o	R
		1=Top serif	Oo o ° p	၁၁ ၁ ^၁ ၃	
Small p-hook alternate (U+01A5)	p_hk (old:1040)	0=Left hook	Рβ	Рр	R
		1=Right hook	Pp	РР	
Capital R-tail alternate (U+2C64)	R_tl (old:1039)	0=Uppercase style	Rr	RR	R
		1=Lowercase style	Cr	rr	

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Capital T-hook alternate (U+01AC)	T_hk (old:1037)	0=Left hook	Tf	Тт	R
		1=Right hook	Tf	Тт	
V-hook alternates (U+01B2 U+028B)	v_hk: (old:1033)	0=Curved	υυ	υυ	R
		1=Straight left	Vν	٧v	
		2=Straight left high hook	νν	٧̈́ν	
Capital Y-hook alternate (U+01B3)	Y_hk (old:1034)	1=Right hook	Yy	ΥΥ	R
		0=Left hook	Yy	ΥΥ	
Small ezh-curl alternate (U+0293)	ezhc (old:1036)	0=Small bowl		Small capitals are not available as there is no uppercase equivalent	R
		1=Large bowl	3	inere is no apperease equivalent	
Capital Ezh alternates (U+01B7 U+04E0)	Ezhr (old:1042)	0=Normal	33 33	3 3 3 3	R
		1=Reversed sigma	3333	ΣΣ ΣΣ	
OU alternates (U+0222 U+0223 U+1D3D U+1D15)	opOU (old:1045)	0=Closed	8888	888 ⁸	R
		1=Open	888 ⁸	888 ⁸	
Modifier apostrophe alternates (U+02BC U+A78B U=A78C)	apos (old:1044)	0=Small	, 11	Small capitals are not available	R
		1=Large	, !!		
Modifier colon alternate (U+A789)	coln (old:1047)	0=Tight		Small capitals are not available as there is no uppercase equivalent	R
		0=Wide	:	more is no appercase equivalent	
Empty set alternates (U+2205)	empt (old:1046)	0=Circle		Small capitals are not available as	R
		1=Zero	Ø	_there is no uppercase equivalent	

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Show invisible characters (U+00AD U+034F U+200B U+200C U+200D U+200E	invs (old:1030)	0=False		Small capitals are not available as there is no uppercase equivalent	R
J+200F U+202A U+202B U+202C U+202D U+202E U+2060 J+2061 U+2062 U+2063 U+FE00 U+FE01 U+FE02 U+FE03 J+FE04 U+FE05 U+FE06 U+FE07 U+FE08 U+FE09		1=True	CGJ XY ZW LRM RLM LRE RLE PDF LRO VS VS (X F() RLO	anorono no apporoasso squivalent	
J+FEOA U+FEOB U+FEOC U+FEOD U+FEOE U+FEOF J+FEFF)			VS ESP		
Small Caps	smcp (old:1058)	0=False 1=True	a b c d e f g h i j k l m n o p q	ABCDEFGHIJKLM	R
	(Giai 1000)		rstuvwxyzàáâãäåæçè	NOPQRSTUVWXY	
			é ê ë ì í î ï ð ñ ò ó ô õ ö ø ù ú û	ZÀÁÂÃÄÄÄÆÇÈÉÊ	
			üýþÿāăąćĉċčďđēĕėęě	ËÌÍÎÏĐÑÒÓÔÕÖØ	
			ĝ g g g h h ĩ ĩ ĭ ị ı ij ĵ ķ ĺ ļ ľ l· ł	ÙÚÛÜÝÞŸĀĂĄĆĈ	
			ńņňŋōŏőœŕŗřśŝşšţť	ĊČĎĐĒĔĖĘĚĜĞĠ	
			ŧũūŭůűųŵŷźżžbБbcd	ĢĤĦĨĪĬĮIJĴĶĹĻĽ	
			fωkłησηβεfαγχερ	ĿŁŃŅŇŊŌŎŐŒŔ	
			Dž dž Lj lj Nj nj ă ĭ ŏ ŭ ū ū ū u u u u u u u u u u u u u u u u	ŖŘŚŚŞŠŢŤŦŨŪŬ	
			ə ä à æ g g k q ō ž Dz dz g n å	ŮŰŲŴŶŹŻĔBБЬĆ	
			æ ø à a è e ì î ò o r r u û ş ţ 3 h	ағнкепопрат	
			8 z a ę ö ō o o y e z e j q r y e	LI LI ŠC ŠC Q Z Z Y Ū E Ü Ü Ü Ü Ŭ Ŏ Ĭ Ă LN LN	
			a b o d a e g y i i ł w m n o r r	ÄĀÆGĞŘQŌŠDZ	
			∫ t ʉ υ υ ʌ ʒ p a b b b c d d d d d ē é e e ĕ f g h ḥ h ḥ h h h k k	DZ Ś N Å Æ Ø Ä Â Ë Ê Ï Î	
				Ö Ô Ř Ř Ù Û Ş Ţ 3 H 8 Z	
			rrrrssssttttunutü	ÁĘÖÕÖÖŸØ?ĔJQ	
			v y w w w w x x y z z z a a á	RYV03000FEFF	
			à à ã à ắ à ẳ ã ặ ẹ ẻ ẽ ế ề ề ể ệ ỉ	lł W M N Θ R R Σ T U	
			i ọ ỏ ố ố ố ố ộ ớ ờ ở ỡ ợ ụ ủ ứ	$UU\Lambda 3PABBCDD$	
			ừ ử ữ ự ỳ y ỷ ỹ Ħ 6 y ₦ a t h k z	D Ď Ď Ē Ě Ĕ Ĕ Ě Ė Ġ Ḥ Ḥ	
			W + h ts & 4 4 aa aa k aa '	H H H Ï Ï K K K L Ļ L Ļ M	
			абвгдежзийклмнопр	M M N N N N Õ Õ Õ Õ Ó Ý	
			стуфхцчшщъыьэюяѐ	PRRRSSSŠTTT	
			ёђѓєѕіїјљыћкийуцью	ŢŲŲŲŨÜŸVWWW	
			v й ь р ґ ғ ҕ җ ҙ қ к k ҡ ң н ҧ ҩ	W W X X Y Z Z Z A A Â Â	
			стүххцччһеежклнн	ÂÂÂÂĂĂĂĂĂĂĔĒĔ	
			ч м I й й ӕ ӗ ә Ӛ ӝ ӟ ӡ ӣ й ӧ ө ӫ	ÈÉÉÍIOÓÓÔÔÔ	
			э ў ў ў ў т ы 	Ô Ở Ở Ở Ở Ở Ų Ủ Ứ Ừ	
			G ъ є л х рх я с q w к љ њ	Ů Ü Y Y Ý Ý IL 6 Y Ł A	

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
				Т Ң Қ Z W Ғ Ӈ Ђ E 4 4 AA AO Ҟ CO ' АБВГДЕЖЗИЙКЛ МНОПРСТУФХЦ ЧШЩЪЫЬЭЮЯÈË ЂЃЄ S I Ï J Љ Њ Ћ Ќ Й Ў Џ Ђ Ө V Ҋ Ь Р Ґ Ғ Ҕ Җ Ҙ Қ Ҟ Ҟ Ҟ Ң Ҥ Ҧ Ҩ Ҫ Ҭ Ү Ұ Ҳ Ҵ Ҷ Ҹ Һ Ҽ Ҿ Ӂ Қ Ӆ Ӈ Ӊ Ӌ Ӎ I Ă Ä Æ Ӗ Ә Ӛ Ӝ Ӟ Ӡ Ӣ Ӥ Ö Ө Ö Ӭ Ӯ Ӱ Ӳ Ӵ Ӷ Ӹ Ӻ Ӽ Ӿ d & Ъ 飞 Љ Њ G む E Ӆ	
Show deprecated PUA	dpua (old:1077)		This feature no longer works in Graphite applications which use a newer Graphite engine. This means it does not work in LibreOffice or Firefox. It does still work in OpenOffice.		R
Other Features					
Diacritic selection	dsel (old:1051)	0=False 1=True	Allows independent selection of diacritics (rather than the base plus diacritic) ⁵ .		G
Line spacing		Normal Tight Loose	Allows for adjustment of the default line spacing in the font.		Т

⁵Diacritic selection is only available in FieldWorks applications (http://fieldworks.sil.org/).