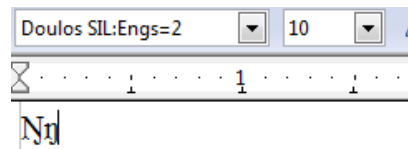
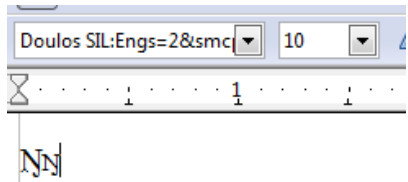


Font Features for Doulos SIL

When Doulos 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 features can be turned on by choosing the font (ie Doulos 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 “Doulos 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, “Doulos 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 Doulos 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	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	
Serbian-style alternates (U+0431 U+0433 U+0434 U+043F U+0442) Primarily intended for italic use	locl (accessed through Serbian language)	serb	0=False	Бб Гг Дд Пп Тт	ББ ГГ ДД ПП ТТ	R
			1=True	БѢ ГѢ ДѢ ПѢ ТѢ	ББ ГГ ДД ПП ТТ	
Chinantec tones (U+02CB U+02C8 U+02C9 U+02CA)	cv90	chtn (old:1057)	0=False	˘ ˙ ˉ ˊ	Small capitals are not available as there is no uppercase equivalent	R
			1=Chinantec-style	˘ ˙ ˉ ˊ		
Bridging diacritics (U+0308 – used with "L" and "I", U+0311, U+0361 and U+035F – used with "O", "o", "U" and "u".)	-	brig (old:1052)	0=False	Naso: L̈L İ̈ L̈I Konai: Ô̈U Ô̈u ô̈u Ô̈U Ô̈u ô̈u Ô̈U Ô̈u ô̈u Ô̈U Ô̈u ô̈u	Small capitals do not work properly	G
			1=True	Naso: L̈L İ̈ L̈I Konai: Ô̈U Ô̈u ô̈u Ô̈U Ô̈u ô̈u Ô̈U Ô̈u ô̈u Ô̈U Ô̈u ô̈u		

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	ᠡᠢ	ᠡᠢ	R
			1=Mongolian-style	ᠡᠢ	ᠡᠢ	
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	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10	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	tstv (old:1050)	0=False	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10 (᠒ ᠒)	Small capitals are not available as there is no uppercase equivalent	G
			1=True	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10 (᠒ ᠒)		
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	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10 (᠒)	Small capitals are not available as there is no uppercase equivalent	G
			1=Tramlines	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10 (᠒)		
			2=Non-ligated with no tramlines	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10 (᠒)		
			3=Non-ligated with tramlines	᠑ ᠒ ᠓ ᠔ ᠕ ᠖ ᠗ ᠘ ᠙ 10 (᠒)		

² There are also Cyrillic characters affected by the “Capital Ezh alternates” and “Small capitals” feature. 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	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Aą Ǻǻ Āā Āā Áá Àà Ââ Àà Ąą à Ạạ Ǻ	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ Ăă Aą ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ Ǻ	R
			1=True	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Aą Ǻǻ Āā Āā Áá Àà Ââ Àà Ąą à Ạạ Ǻ	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ Ăă Aą ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ ǺǺ Ǻ	
Barred-bowl forms (U+0111 U+0180 U+01E5)	ss04	bowl (old:1031)	0=False	Đđ Bb Gg	ÐĐ BḂ GḠ	R
			1=Barred-bowl	Đđ BḂ GḠ	ÐĐ BḂ GḠ	
Non-European caron alternates (U+0164 U+0165 U+010E U+010F U+013D U+013E)	cv77	carn (old:1063)	0=European style	Ťť Ďď Ľľ	ŤŤ ĎĐ ĽĽ	R
			1=Non-European style	Ťť Ďď Ľľ	ŤŤ ĎĐ ĽĽ	
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 ̣ (Ąą Ęę Ĳ ĳ Ųų Ųų Ųų)	anything with ̣ (ĄĄ ĘĘ Ĳ Ĳ ŲŲ ŲŲ ŲŲ)	R
			1=Straight	anything with ̣ (Ąą Ęę Ĳ ĳ Ųų Ųų Ųų)	anything with ̣ (ĄĄ ĘĘ Ĳ Ĳ ŲŲ ŲŲ ŲŲ)	
Capital B-hook alternate (U+0181)	cv13	B_hk (old:1064)	0=Uppercase style	ḂḂ	ḂḂ	R
			1=Lowercase style	ḂḂ	ḂḂ	
Capital D-hook alternate (U+018A)	cv17	D_hk	0=Uppercase style	ḌḌ	ḌḌ	R
			1=Lowercase style	ḌḌ	ḌḌ	

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Rams horn alternates (U+0264)	cv25	ramh (old:1025)	0=Small bowl	ϣ	Small capitals are not available as there is no uppercase equivalent	R
			1=Large bowl	ϣ̣		
			2=Small gamma	ϣ̥		
Capital H-stroke alternate (U+0126)	cv28	Hslk (old:1038)	0=False	Ḥḥ	ḤḤ	R
			1=Vertical-stroke	Ḥḥ		
J-stroke hook alternate (U+0284)	cv37	Jslk (old:1049)	0=No serif	ƒ	Small capitals are not available as there is no uppercase equivalent	R
			1=Top serif	ƒ̣		
Uppercase Eng alternates (U+014A)	cv43	Engs (old:1024)	0= Large eng with descender	Ŋŋ	ŊŊ	R
			1=Large eng on baseline	Ŋŋ		
			2=Capital N with tail	Ŋŋ		
			3=Large eng with short stem	Ŋŋ		
Capital N-left-hook alternate (U+019D)	cv44	N_hk (old:1035)	0=Uppercase style	ŊŊ	ŊŊ	R
			1=Lowercase style	Ŋŋ		
Open-O alternate (U+0186 U+0254 U+1D10 U+1D53 U+1D97)	cv46	opnO (old:1059)	0=Bottom serif	Ɔ ɔ ʼ ɔ	Ɔ ɔ ʼ ɔ	R
			1=Top serif	Ɔ ɔ ʼ ɔ		
Small p-hook alternate (U+01A5)	cv49	p_hk (old:1040)	0=Left hook	ƆƆ	ƆƆ	R
			1=Right hook	ƆƆ		
Capital R-tail alternate (U+2C64)	cv55	R_tl (old:1039)	0=Uppercase style	Ŕŕ	ŔŔ	R
			1=Lowercase style	Ŕŕ		
Capital T-hook alternate (U+01AC)	cv57	t_hk (old:1037)	0=Left hook	ƧƧ	ƧƧ	R
			1=Right hook	ƧƧ		

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
V-hook alternates (U+01B2 U+028B U+1DB9)	cv62	v_hk: (old:1033)	0=Curved	Uv	Uv	R
			1=Straight with low hook	Vv	Vv	
			2=Straight with high hook	V̇v̇	V̇v̇	
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	Ʒ Ʒ	Ʒ Ʒ	R
			1=Reversed sigma	Ʒ Ʒ	Ʒ Ʒ	
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	’ ’	Small capitals are not available	R
			1=Large	’ ’		
Modifier colon alternate (U+A789)	cv71	coln (old:1047)	0=Tight	:	Small capitals are not available as there is no uppercase equivalent	R
			0=Expanded	:		
Empty set alternates (U+2205)	cv98	empt (old:1046)	0=Circle	∅	Small capitals are not available as there is no uppercase equivalent	R
			1=Zero	∅		
Show invisible characters (U+00AD U+034F U+200B U+200C U+200D U+200E U+200F U+202A U+202B U+202C U+202D U+202E U+2060 U+2061 U+2062 U+2063 U+FE00 U+FE01 U+FE02 U+FE03 U+FE04 U+FE05 U+FE06 U+FE07 U+FE08 U+FE09 U+FE0A U+FE0B U+FE0C U+FE0D U+FE0E U+FE0F U+FEFF)	ss06	invs (old:1030)	0=False		Small capitals are not available as there is no uppercase equivalent	R
			1=True			

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Other Features						
Line spacing			Normal Tight Loose	Allows for adjustment of the default line spacing in the font.		T