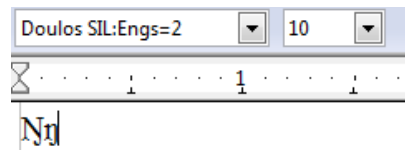
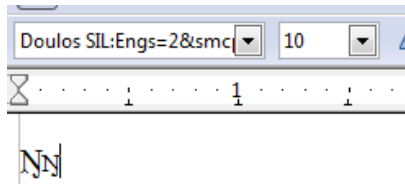


Font Features for Doulos SIL

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 (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.



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	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 1ED7)	viet (old:1029)	0=False	Áá Àà Ăă Ãã Ấấ Ẫẫ Ằằ Ẵẵ ẾếỀề ỄễỄễ ỚốỒồ Ỗỗ Ỗỗ	ÁÁ ÀÀ ĂĂ ÃÃ ẤẤ ẪẪ ỖỖ ỖỖ ỖỖ ỖỖ ẾẾỀề ỄỄỄễ ỚỚ ỒỒ ỖỖ ỖỖ	R, O
		1=True	Áá Àà Ấấ Ẫẫ Ấấ Ẫẫ Ằằ Ẵẵ ẾếỀề ỄễỄễ ỚốỒồ Ỗỗ Ỗỗ	ÁÁ ÀÀ ẤẤ Ẫẫ ẤẤ Ẫẫ ỖỖ ỖỖ ẾẾỀề ỄỄỄễ ỚỚ ỒỒ ỖỖ ỖỖ ²	
Romanian-style diacritics (U+015E U+015F U+0162 U+0163)	romn (old:1041)	0=False	Șș Țț	ȘȘ ȚȚ	R, O
		1=True	Șș Țț	ȘȘ ȚȚ	
Chinantec tones (U+02CB U+02C8 U+02C9 U+02CA)	chtn (old:1057)	0=False	˘ ˙ ˚ ˛	Small capitals are not available as there is no uppercase equivalent	R
		1=True	˘ ˙ ˚ ˛		
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: ĹĹ İİ ĹĹ Konai: ÔŪ Ôu ôu ÔŪ Ôu ôu ÔŪ Ôu ôu ÔŪ Ôu ôu	Small capitals do not work properly	G
		1=True	Naso: L̈L̈ İ̈ İ̈ L̈L̈ Konai: ÔŪ Ôu ôu ÔŪ Ôu ôu ÔŪ Ôu ôu ÔŪ Ôu ôu		

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>).

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

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Cyrillic ³					
Mongolian-style Cyrillic E (U+042D U+044D)	mone (old:1027)	0=False	ᠡ	ᠡ	R
		1=True	ᠢ	ᠢ	
Combining breve Cyrillic form (U+0306)	sbrv (old:1028)	0=False	anything with ь (ӕӕ)	anything with ь (ӕӕ)	R (no effect if data is NFC)
		1=True	anything with ь (ӕӕ)	anything with ь (ӕӕ)	
Cyrillic shha alternate (U+04BB)	shha (old:1056)	0=False	Һ	Һ	R
		1=True	ᠬᠬ	ᠬᠬ	
Tone-related					
Tone numbers (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716)	tone (old:1026)	0=False	ᠠᠨᠢᠨᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ	Small capitals are not available as there is no uppercase equivalent	G
		1=True	ᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ		
Hide tone contour staves (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716)	tstv (old:1050)	0=False	ᠠᠨᠢᠨᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ (ᠠᠨᠢᠨᠢ)	Small capitals are not available as there is no uppercase equivalent	G
		1=True	ᠠᠨᠢᠨᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ (ᠠᠨᠢᠨᠢ)		
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	ᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ (ᠠᠨᠢᠨᠢ)	Small capitals are not available as there is no uppercase equivalent	G
		1=Show tramlines	ᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ (ᠠᠨᠢᠨᠢ)		
		2=Non-ligated	ᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ (ᠠᠨᠢᠨᠢ)		
		3=Show tramlines, non-ligated	ᠠᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢᠨᠢ (ᠠᠨᠢᠨᠢ)		
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	litr (old:1032)	0=False	Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Ȧȧ Ǻǻ Āā Āā ǺǺ Àà Ââ Àà Ȧȧ à Ȧȧ Åå Áá Àà ǺǺ Āā Āā ǺǺ Àà ǺǺ ǺǺ Ȧȧ Ȧȧ Gg Ĝĝ Ğğ Ğğ Ğğ Ğğ Ğğ Ğğ Ğğ ĀĀ ÁÁ ÀÀ ÂÂ ÆÆ Ȧȧ	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ Åå ĀĀ Ăă Ȧȧ ǺǺ Āā Āā ǺǺ Àà Ââ Àà Ȧȧ à Ȧȧ Åå Áá Àà ǺǺ Āā Āā ǺǺ Àà ǺǺ ǺǺ Ȧȧ Ȧȧ Gg Ĝĝ Ğğ Ğğ Ğğ Ğğ Ğğ Ğğ Ğğ	R

³ 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
U+0067 U+011D U+011F U+0121 U+0123 U+01E7 U+01F5 U+01E5 U+1E21)				<p> ȦȦ ȦȦ ÁÁ ÀÀ ÂÂ ÃÃ Â̇Â̇ Á̇Á̇ À̇À̇ Â̇Â̇ Ã̇Ã̇ ȦȦ ĠĠ Ğ̇Ğ̇ Ğ̇Ğ̇ Ğ̇Ğ̇ Ğ̇Ğ̇ Ğ̇Ğ̇ Ğ̇Ğ̇ Ğ̇Ğ̇ </p>	
		1=True	<p> Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă Aq Ǻǻ Ǻǻ Āā Āā Áá Àà Ââ Àà Aq à Aq Åå Áá Àà Åå Ãã Āā Áá Àà Åå Ǻǻ Ǻǻ Aa Gg Ğg Ğg Ğg Ğg Ğg Ğg Ğg Ğg </p>	<p> AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ Ăă Aq Ǻǻ Ǻǻ Āā Āā Áá Àà Ââ Åå Aq Aq Åå Áá Àà Åå Ãã Aq Aq Ğg Ğg Ğg Ğg Ğg Ğg Ğg Ğg Ğg </p>	
Barred-bowl forms (U+0111 U+0180 U+01E5)	bowl (old:1031)	0=False	Đđ B̄b Ḡg	ĐĐ B̄B ḠG	R
		1=True	Đđ B̄b Ḡg	ĐĐ B̄B ḠG	
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 U+0172 U+0173 U+01EA U+01EB U+01EC U+01ED)	ogon (old:1043)	0=Curved	anything with ̇ (ȦȦ ĖĖ Ĭ̇ Ĭ̇ Q̇Q̇ Q̇Q̇)	anything with ̇ (ȦȦ ĖĖ Ĭ̇ Ĭ̇ Q̇Q̇ Q̇Q̇)	R
		1=Straight	anything with ̇ (ȦȦ ĖĖ Ĭ̇ Ĭ̇ Q̇Q̇ Q̇Q̇)	anything with ̇ (ȦȦ ĖĖ Ĭ̇ Ĭ̇ Q̇Q̇ Q̇Q̇) ⁴	
Capital B-hook alternate (U+0181)	B_hk (old:1064)	0=False	ḂḂ	ḂḂ	R
		1=True	ḂḂ	ḂḂ	

⁴There is currently a bug in the Graphite smarts in this font. You cannot select both Small Capitals 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)	0=Small bowl	𐤀	Small capitals are not available as there is no uppercase equivalent	R
		1=Large bowl	𐤁		
		2=Small gamma	𐤂		
Capital H-stroke alternate (U+0126)	Hstk (old:1038)	0=Horizontal stroke	𐤅𐤅	𐤅𐤅	R
		1=Vertical stroke	𐤅𐤅	𐤅𐤅	
J stroke hook alternate (U+0284)	Jstk (old:1049)	0=No serif	𐤄	Small capitals are not available as there is no uppercase equivalent	R
		1=Top serif	𐤄		
Uppercase Eng alternates (U+014A)	Engs (old:1024)	0= Large eng with descender	𐤍𐤍	𐤍𐤍	R
		1=Large eng on baseline	𐤍𐤍	𐤍𐤍	
		2=Capital N with tail	𐤍𐤍	𐤍𐤍	
		3=Large eng with short stem	𐤍𐤍	𐤍𐤍	
Capital N-left-hook alternate (U+019D)	N_hk (old:1035)	0=Uppercase style	𐤍𐤍	𐤍𐤍	R
		1=Lowercase style	𐤍𐤍	𐤍𐤍	
Open o alternate (U+0186 U+0254 U+1D10 U+1D53 U+1D97)	opnO (old:1059)	0=Bottom serif	𐤌 𐤌 𐤌 𐤌	𐤌 𐤌 𐤌 𐤌	R
		1=Top serif	𐤌 𐤌 𐤌 𐤌	𐤌 𐤌 𐤌 𐤌	
Small p-hook alternate (U+01A5)	p_hk (old:1040)	0=Left hook	𐤐𐤐	𐤐𐤐	R
		1=Right hook	𐤐𐤐	𐤐𐤐	
Capital R-tail alternate (U+2C64)	R_tl (old:1039)	0=Uppercase style	𐤓𐤓	𐤓𐤓	R
		1=Lowercase style	𐤓𐤓	𐤓𐤓	
Capital T-hook alternate (U+01AC)	T_hk (old:1037)	0=Left hook	𐤔𐤔	𐤔𐤔	R
		1=Right hook	𐤔𐤔	𐤔𐤔	

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
V-hook alternates (U+01B2 U+028B)	v_hk: (old:1033)	0=Curved	Uu	Uu	R
		1=Straight left	Vv	Vv	
		2=Straight left high hook	V̇v̇	V̇v̇	
Capital Y-hook alternate (U+01B3)	Y_hk (old:1034)	1=Right hook	YŸ	YŸ	R
		0=Left hook	ŸY	ŸY	
Small ezh-curl alternate (U+0293)	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)	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)	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)	apos (old:1044)	0=Small	‚ ı	Small capitals are not available	R
		1=Large	‚ ı		
Modifier colon alternate (U+A789)	coln (old:1047)	0=Tight	:	Small capitals are not available as there is no uppercase equivalent	R
		0=Wide	:		
Empty set alternates (U+2205)	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)	invs (old:1030)	0=False		Small capitals are not available as there is no uppercase equivalent	R
		1=True	<div> <div>CGJ</div> <div>ZWJ</div> <div>ZWJ</div> <div>LRM</div> <div>RLM</div> <div>LRE</div> <div>RLE</div> <div>PDF</div> <div>LRO</div> <div>VS2</div> <div>VS1</div> <div>,</div> <div>X</div> <div>F()</div> <div>RLO</div> </div> <div> <div>VS16</div> <div>VS15</div> <div>VS14</div> <div>VS13</div> <div>VS12</div> <div>VS11</div> <div>VS10</div> <div>VS9</div> <div>VS8</div> <div>VS7</div> <div>VS6</div> <div>VS5</div> <div>VS4</div> <div>VS3</div> <div>ZWN</div> <div>BSP</div> </div>		
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 r s t u v w x y z à á â ã ä å æ ç è	A B C D E F G H I J K L M N O P Q R S T U V W X Y	R

Feature Name	Feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
				M I Ă Ä Æ Ė Ę Ž 3 Ĩ Ï Ö Ø Ò ȳ Ÿ Ÿ Ċ Ħ Ħ X X ɹ ɹ ɹ ɹ ɹ ɹ ɹ JX K Æ Q W K ɹ ɹ	
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.		T

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