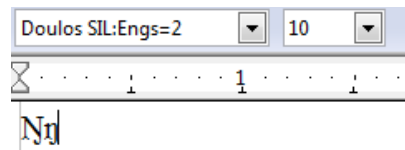
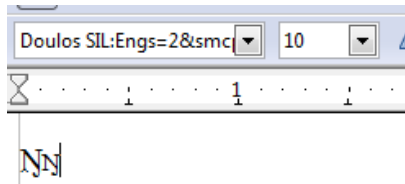


## Font Features for Doulos SIL

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.



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 <sup>1</sup>
<b>Language specific</b>						
<b>Vietnamese-style diacritics</b> (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	
<b>Serbian-style alternates</b> (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	БѢ ГѢ ДѢ ПѢ ТѢ	
<b>Chinantec tones</b> (U+02CB U+02C8 U+02C9 U+02CA)	cv90	chtn (old: 1057)	0=False	˘ ˙ ˚ ˇ	Small capitals are not available as there is no uppercase equivalent	R
			1=Chinantec-style	˘ ˙ ˚ ˇ		
<b>Bridging diacritics</b> (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: ÌÌ ìì ÌÌ Konai: ÔU Ôu ôu Ô̇U Ô̇u ô̇u Ô̇U Ô̇u ô̇u Ô̇U Ô̇u ô̇u	Small capitals do not work properly	G
			1=True	Naso: ÌÌ ìì ÌÌ Konai: Ô̇U Ô̇u ô̇u Ô̇U Ô̇u ô̇u Ô̇U Ô̇u ô̇u Ô̇U Ô̇u ô̇u		

<sup>1</sup>**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
<b>Rams horn alternates</b> (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	ϣ̇		
			2=Small gamma	ϣ̣		
<b>Capital H-stroke alternate</b> (U+0126)	cv28	Hslk (old:1038)	0=False	Ĥĥ	ĤĤ	R
			1=Vertical-stroke	Ḥ̂ĥ	Ḥ̂Ḥ̂	
<b>J-stroke hook alternate</b> (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		
<b>Uppercase Eng alternates</b> (U+014A)	cv43	Engs (old:1024)	0= Large eng with descender	Ŋŋ	ŊŊ	R
			1=Large eng on baseline	Ŋ̣ŋ	Ŋ̣Ŋ̣	
			2=Capital N with tail	Ŋ̣ŋ	Ŋ̣Ŋ̣	
			3=Large eng with short stem	Ŋ̣ŋ	Ŋ̣Ŋ̣	
<b>Capital N-left-hook alternate</b> (U+019D)	cv44	N_hk (old:1035)	0=Uppercase style	Ŋ̣ŋ	Ŋ̣Ŋ̣	R
			1=Lowercase style	Ŋ̣ŋ	Ŋ̣Ŋ̣	
<b>Open-O alternate</b> (U+0186 U+0254 U+1D10 U+1D53 U+1D97)	cv46	opnO (old:1059)	0=Bottom serif	Ɔ ɔ ɔ̣ ɔ̣̣	Ɔ ɔ ɔ̣ ɔ̣̣	R
			1=Top serif	Ɔ ɔ ɔ̣ ɔ̣̣	Ɔ ɔ ɔ̣ ɔ̣̣	
<b>Small p-hook alternate</b> (U+01A5)	cv49	p_hk (old:1040)	0=Left hook	Ɔ̣̣̣	Ɔ̣̣̣	R
			1=Right hook	Ɔ̣̣̣	Ɔ̣̣̣	
<b>Capital R-tail alternate</b> (U+2C64)	cv55	R_tl (old:1039)	0=Uppercase style	Ŕŕ	ŔŔ	R
			1=Lowercase style	Ṛ́ŕ	Ṛ́Ṛ́	
<b>Capital T-hook alternate</b> (U+01AC)	cv57	t_hk (old:1037)	0=Left hook	Ŧŧ	ŦŦ	R
			1=Right hook	Ŧ̣ŧ̣	Ŧ̣Ŧ̣	

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
<b>V-hook alternates</b> (U+01B2 U+028B U+1DB9)	cv62	v_hk: (old:1033)	0=Curved	Uu	Uu	R
			1=Straight with low hook	Vv	Vv	
			2=Straight with high hook	V̇v̇	V̇v̇	
<b>Capital Y-hook alternate</b> (U+01B3)	cv68	Y_hk (old:1034)	1=Right hook	Yy	ẎẎ	R
			0=Left hook	Ẏẏ	ẎẎ	
<b>Small ezh-curl alternate</b> (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		
<b>Capital Ezh alternates</b> (U+01B7 U+04E0)	cv20	Ezhr (old:1042)	0=Normal	Ʒ Ʒ	Ʒ Ʒ	R
			1=Reversed sigma	Ʒ Ʒ	Ʒ Ʒ	
<b>OU alternates</b> (U+0222 U+0223 U+1D3D U+1D15)	cv47	opOU (old:1045)	0=Closed	888 <sup>8</sup>	888 <sup>8</sup>	R
			1=Open	888 <sup>8</sup>	888 <sup>8</sup>	
<b>Modifier apostrophe alternates</b> (U+02BC U+A78B U=A78C)	cv70	apos (old:1044)	0=Small	‚ ℥	Small capitals are not available	R
			1=Large	‚ ℥		
<b>Modifier colon alternate</b> (U+A789)	cv71	coln (old:1047)	0=Tight	:	Small capitals are not available as there is no uppercase equivalent	R
			0=Expanded	:		
<b>Empty set alternates</b> (U+2205)	cv98	empt (old:1046)	0=Circle	∅	Small capitals are not available as there is no uppercase equivalent	R
			1=Zero	∅		
<b>Show invisible characters</b> (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	<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>F( )</div> <div>RLO</div> </div> <div> <div>VS9</div> <div>VS8</div> <div>VS7</div> <div>VS6</div> <div>VS5</div> <div>VS4</div> <div>VS3</div> <div>VS2</div> <div>VS1</div> <div>,</div> <div>X</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>ZWN</div> <div>BSP</div> </div>		

[illegible]

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