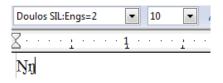
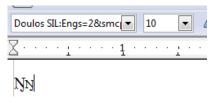
Font Features for Doulos SIL

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+1EC3 U+1EC3 U+1EC4 U+1EC5	cv75	viet (old:1029)	0=False	Áấ Àà Ảå Ãã Áắ Àš Åå Åå Ãã Éế Èề ểể ễể ốố Òò Ôổ Õổ	ÂÂ ÀÀ ÂÂ ÃÃ ÁĂ ÀX ÅÄ ÃÃ ÉÉÈÈ ÊÊ ÊÊ ÔÓ ÔÒ ÔÔ ÔÔ	R, O
U+1ED0 U+1ED1 U+1ED2 U+1ED3 U+1ED4 U+1ED5 U+1ED6 U+1ED7)			1=Vietnamese-style	Áấ Àà Ẩẩ Ãã Áắ Àà Åà Ãã Éế Èè ểể ễê ốố Òò ổổ ỗỗ	Áấ Àà Ẩẩ Ãỗ Áắ Ăằ Åå Ãẵ Éế Èè ểể ễễ ốố Òồ ổổ ỗỗ	
Serbian-style alternates (U+0431 U+0433 U+0434 U+043F U+0442)	locl (accessed trhough	serb	0=False	Бб Гг Дд Пп Тт	Бь Гг Дд Пп Тт	R
Primarily intended for italic use	Serbian language)		1=True	Б8 Гг Дд Пп Тт	Бь Гг Дд Пп Тт	
Chinantec tones (U+02CB U+02C8 U+02C9 U+02CA)	cv90	chtn (old:1057)	0=False 1=Chinantec-style	\ I = \/	Small capitals are not available as there is no uppercase equivalent	R
Bridging diacritics (U-0308 – used with "L" and "t", U+0311, U+0361 and U+035F – used with "O", "o", "U" and "u")		brig (old:1052)	0=False 1=True	Naso: ÜL ÏI ÜI Konai: ÔU Naso: ÜL Ïİ ÜI Konai: ÔU Ôu oû ÔU Ôu ôu ÔU Ôu ôu ÔU Ôu ôu	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).

Feature Name	OpenType feature ID	Graphite feature ID	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Cyrillic ²						
Mongolian-style Cyrillic E (U+042D U+044D)	cv80	mone (old:1027)	0=False	Ээ	Ээ	R
			1=Mongolian-style	Ээ	Ээ	
	cv82	sbrv (old:1028)	0=False	anything with ੱ (Ďě)	anything with $\check{\ }$ $(\check{\varTheta}\check{\eth})$	R (no effect if data is NFC)
			1=Cyrillic-style	anything with ヾ (ゔ゙)	anything with ヾ (ゔ゙ゔ)	
Cyrillic shha alternate (U+04BB)	cv81	shha (old:1056)	0=False	hh	hь	R
			1=Uppercase style	hь	hh	
Tone-related						
Tone numbers (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712	cv91	tone (old:1026)	0=Bars	11447[++1	Small capitals are not available as there is no uppercase equivalent	G
U+A713 U+A714 U+A715 U+A716)			1=Numbers	5 4 3 2 1 5 4 3 2 1	uppercase equivalent	
Hide tone contour staves (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712	cv92	tstv (old:1050)	0=False	1144J[FFF[(\(\(\(\(\)\(\)\))	Small capitals are not available as there is no uppercase equivalent	G
U+A713 U+A714 U+A715 U+A716)			1=True	₋ (apperease equivalent	
Combining breve Cyrillic form Cv82 Sbrv O-False anything with \(\tilde{O}(\tilde{O}) \) (old:1028) O-False anything with \(\tilde{O}(\tilde{O}) \) (\tilde{O}(\tilde{O}) \) (old:1028) O-False anything with \(\tilde{O}(\tilde{O}) \) (\tilde{O}(\tilde{O}) \) (Od:1028) O-False anything with \(\tilde{O}(\tilde{O}) \) (\tilde{O}(\tilde{O}) \) (Od:1028) O-False (old:1056) O-False O-False Odd:1028) O-False O-False Odd:1028) O-False O-False	- 1F6		0=No tramlines	(\^)	Small capitals are not available as there is no uppercase equivalent	G
	uppercase equivalent					
		3=		()		

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+01E8 U+0201 U+0203 U+0207 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 Ąą Ăă Ää Āā Āā Åå Åå Ââ Àà Aa a A A A Åå Ââ Àâ Åå Âå Ãã Ãã Ãã Ğã Ĝg Ĝg Ğg Ğg Ğg Ğg Ğg Ğg Ğg Ğg Gg	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ ĂĂ ĀĀ ĂĂ ĀĀ ĀĀ ĀĀ ĀĀ ÅĀ ÅÅ ÅÄ ÂÂ ÄĀ ÅĀ ĀĀ	R	
			1=True	Aa Àà Áá Ââ Âã Ää Ää Ää Ää Ąą Ăă Ää Āā Áå Åå Àà Ââ Àa Aa a A Aa Åa Áâ Àà Åå Ãã Âã Áa Áă Åă Åă Ãã Ăă Aa Aa a a a a a a a a a a a a a a a a	AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ ĂĂ ĀĀ ĂĂ ĀĀ ĂĂ ĀĀ ĂĂ ĀĀ ĀĀ ĀĀ ĀĀ 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	Đd Bb Gg	ÐÐ Вв GG	-	
Non-European caron alternates U+0164 U+0165 U+010E U+010F U+013D U+013E)	cv77	carn (old:1063)	0=European style 1=Non-European style	Ťť Ďď Ľľ Ťť Ďď Ľľ	ŤŤ ĎĎ ĽĽ ŤŤ ĎĎ ĽĽ	R	
Ogonok altornato	cv76	ogon	0=Curved	_	_	R	
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)		-	(old:1043)	1=Straight	anything with \circ (Aa Ee Ii Uu Qo Qō) anything with \circ (Aa Ee Ii Uu Qo Ōō)	anything with \circ (AA EE II UV QQ QQ) anything with \circ (AA EE II UV QQ QQ	
Capital B-hook alternate	cv13	B_hk (old:1064)	0=Uppercase style	В6	Вв	R	
			1=Lowercase style	Б6	Бь		
Capital D-hook alternate (U+018A)	cv17	D_hk	0=Uppercase style	Dd	DD	R	
			1=Lowercase style	ФФ	र्वि		

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	8	Small capitals are not available as there is no uppercase equivalent	R
			1=Large bowl	σ		
			2=Small gamma	Y		
Capital H-stroke alternate (U+0126)	cv28	Hstk (old:1038)	0=False	Ħħ	ĦĦ	R
			1=Vertical-stroke	Hħ	Нн	
J-stroke hook alternate (U+0284)	cv37	Jstk (old:1049)	0=No serif	$ \mathbf{f} $	Small capitals are not available as there is no uppercase equivalent	R
			1=Top serif	f		
Uppercase Eng alternates (U+014A)	cv43	Engs (old:1024)	0= Large eng with descender	Ŋŋ	Ŋŋ	R
			1=Large eng on baseline	Ŋη	ກກ	
			2=Capital N with tail	Ŋŋ	ŊŊ	
			3=Large eng with short stem	Ŋη	Ŋŋ	
Capital N-left-hook alternate (U+019D)	cv44	N_hk (old:1035)	0=Uppercase style	Nn	NN	R
			1=Lowercase style	ր ր	Ŋņ	
Open-O alternate (U+0186 U+0254 U+1D10 U+1D53 U+1D97)	cv46	opnO (old:1059)	0=Bottom serif	Ͻo o ° ρ	3 2 ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο	R
			1=Top serif	၁၁ ၁ ³ ဥ	၁၁ ၁ ီ ခု	
Small p-hook alternate (U+01A5)	cv49	p_hk (old:1040)	0=Left hook	Рβ	РР	R
			1=Right hook	Pp	РР	
Capital R-tail alternate (U+2C64)	cv55	R_tl (old:1039)	0=Uppercase style	Rt	BB	R
			1=Lowercase style	rt	ľr	
Capital T-hook alternate (U+01AC)	cv57	t_hk (old:1037)	0=Left hook	Tf	Тт	R
			1=Right hook	Tf	Тт	
			·		•	

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	υυ	υυ	R		
			1=Straight with low hook	Vυ	Vν			
			2=Straight with high hook	$\nabla \hat{\mathbf{v}}$	∇v			
Capital Y-hook alternate (U+01B3)	cv68	Y_hk (old:1034)	1=Right hook	Ύу	Ϋ́Υ	R		
			0=Left hook	Yy	YY			
Small ezh-curl alternate (U+0293)	cv19	ezhc (old:1036)	0=Small bowl	3	Small capitals are not available as there is no uppercase equivalent	R		
			1=Large bowl	3	uppercase equivalent			
Capital Ezh alternates (U+01B7 U+04E0)	cv20	Ezhr (old:1042)	0=Normal	33 33	33 33	R		
			1=Reversed sigma	Ζ ₃ Ζ ₃	ΣΣ ΣΣ			
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	8888			
Modifier apostrophe alternates (U+02BC U+A78B U=A78C)	cv70	apos (old:1044)	0=Small	, 11	Small capitals are not available	R		
			1=Large	, 11				
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	Ø	Small capitals are not available as there is no uppercase equivalent	R		
			1=Zero	Ø				
Show invisible characters (U+00AD U+034F U+200B U+200C U+200D U+200E	ss06	(old:1030)	0=False		Small capitals are not available as there is no uppercase equivalent	R		
Ü+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)			1=True	CGJ ZW NJ ZW LRM RLM LRE RLE PDF LRO F() RLO VS NS VS NS	apportation equivalent			
								[9] [8] [7] [6] [5] [4] [3] [2] [1] [7] [7] [8] [7] [8] [7] [8] [7] [8] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7

Feature Name		Graphite	Feature Setting	Example	Example with Small Capitals	TypeTuner Notes
Small Caps	smcp, c2sc sn		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 é ê ë ì í î ï ð ñ ò ó ô õ ö w ù û û û ý þ ÿ ā ă ą ć ĉ ċ č ď d ē ě e e ê ĝ g g g ĥ h ī ī ĭ į ı i j ĵ ķ ĺ ļ ľ l ł ń ņ ň ŋ ō ŏ ố œ f r ř ś ŝ ş š ţ f ŧ ũ ū ǔ û ų w ŵ ŷ ź ż ž b b c d f hu k ł η ơ q p z f ư y z z 5 p D ž d ž L j l j N j n j ă ĭ ŏ ǔ ü ü ü ü ö ä ā æ g ğ k o ō ž Dz dz g 'n å æ ø ã a ề ê î î ò ô î f ù û ş ţ 3 h 8 z a e ō ō ò ō y ¢ z e j q z y e a b ɔ d ə ɛ g y i ı ł w m n o p c f t y v v x 3 p a b b b ç d d d d d è é e e ĕ f g h h h h h i i i k k k l l l l m m m n n n o ö ò ó ó p p r r r r s s s š š t t t t u u u û û v v w w w w w x x y 2 z z a á â â â â â á ă ă ă ă e e ē ê ê ê ê ê ê î i o ò ó ò ô ô ô ô ô ó o o o o o o o u û û û û û û ŷ y ŷ ў t 6 y ł a t h k z w ş z r ; h t z 4 4 a a a a a a a a a a a a a a a a a	STUVWXYZÀÁÂÃÄÄÆÇÈ ÉÊËÌÍÎÏÐÑÒÓÔÕÖØÙÚÛ ÜÝÞŸĀĂĄĆĈĊČĎÐĒĚĖĘ ĚĜĞĠĢĤĦĨĪĬĮIIJĴĶĹĻĽĿ ŁŃŅŇŊŌŎŐŒŔŖŘŚŜŞŠŢ ŤŦŨŪŬŮŰŲŴŶŹŻŽBБЬС ďFHKŁŊďŊPZTĽYZE5P DŽDŽLJLJNJNJĂĬŎŬÜÜÜÜ HÄĀÆGĞKQŌŽDZDZĠŇÅ ÆØÄÂËÊÏÎÕÔŘRŮÛŞŢ3H 8ZÁĘÖÕÖÖŌŸØ?EJQRŸVŒ BDDƏEGYILŁWMNHORRZ ŢUUUA3PĄBBBÇĎDDDD ĒÉĘĘĔĦĠĤĦĦĦĦĮÏKĶĶĻ ĻĻĻMMMNNNNNÕÕÕŌÓÞÞR ŖŖŖŚŞŚŠŸŤŢŢŢŲŲŲŨÜV VWWWWWXXŸŻZZAAÅÂÂ ÂÃÂÃÄÄÄÄÄĘĒĒÊÊÊÊÊÎI OOÔÔÔÔÔÔÔÔÔÔÔÔÔÔŸUŮŰŮ ŮŮŮŸŸŸŸL6YŁATHKZ WŞZH3°HBE\$\$AAOAJAA	

Feature Name	OpenType feature ID	9	Example	Example with Small Capitals	TypeTuner Notes
Other Features					
Line spacing		Hunt	Allows for adjustment of the default line spacing in the font.		Т