

# Doulos SIL - Font Features

Doulos SIL is an OpenType-enabled font that supports the Latin and Cyrillic scripts. It includes a number of optional features that may be useful or required for particular uses or languages. This document lists all the available features.

These OpenType features are primarily specified using four-letter tags (e.g. 'cv17'), although some applications may provide a direct way to control certain common features such as small caps. For more information on how to access OpenType features in specific environments and applications, see [Using Font Features](#).

*Please note that Graphite support has been removed in the current release, but continues to be available in the version 5 fonts. See our [Previous Versions archive](#).*

This page uses web fonts (WOFF2) to demonstrate font features and should display correctly in all modern browsers. For a more concise example of how to use Doulos SIL as a web font see *DoulosSIL-webfont-example.html* in the font package *web* folder. For detailed information see [Using SIL Fonts on Web Pages](#).

*If this document is not displaying correctly a PDF version is also provided in the documentation/pdf folder of the release package.*

## Complete feature list

### Stylistic alternates

#### Small caps from lowercase

Affects: all lowercase letters with capital equivalents

Feature	Sample	Feature setting
Standard	a ... Z (all letters with capital equivalents)	smcp=0
Small caps	A ... Z (all letters with capital equivalents)	smcp=1

#### Small caps from capitals

Affects: all capitals

Feature	Sample	Feature setting
Standard	A ... Z (all capitals)	c2sc=0
Small caps	A ... Z (all capitals)	c2sc=1

## Literacy a and g

Affects: 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

Feature	Sample	Feature setting
Standard	a à á â ã ä å ā ă ą ǎ ā ā á à â á ą ą ą á à ă ă ă ă ă ă ă ą ą ą ą ą ą ą ą ą ą ą ą	ss01=0
Single-story	a à á â ã ä å ā ă ą ǎ ā ā á à â á ą ą ą á à ă ă ă ă ă ă ă ą ą ą ą ą ą ą ą ą ą ą ą	ss01=1

**Literacy a (only)**

Affects: 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

Feature	Sample	Feature setting
Standard	a à á â ã ä å ā ă ǎ ȁ ȃ ǻ ǿ ǽ Ǿ Ǻ Ǽ ǹ ǻ ǿ ǽ Ǿ Ǻ Ǽ ǹ ǻ ǿ ǽ Ǿ Ǻ Ǽ ǹ ǻ ǿ ǽ Ǿ Ǻ Ǽ ǹ	ss11=0
Single-story	ɑ ̀ ́ ̂ ̃ ̄ ̅ ̆ ̇ ̈ ̉ ̊ ̋ ̌ ̍ ̎ ̏ ̐ ̑ ̒ ̓ ̔ ̕ ̖ ̗ ̘ ̙ ̚ ̛ ̜ ̝ ̞ ̟ ̠ ̡ ̢ ̣ ̤ ̥ ̦ ̧ ̨ ̩ ̪ ̫ ̬ ̭ ̮ ̯ ̰ ̱ ̲ ̳ ̴ ̵ ̶ ̷ ̸ ̹ ̺ ̻ ̼ ̽ ̾ ̿ ̀ ́ ͂ ̓ ̈́ ͅ ͆ ͇ ͈ ͉ ͊ ͋ ͌ ͍ ͎ ͏ ͐ ͑ ͒ ͓ ͔ ͕ ͖ ͗ ͘ ͙ ͚ ͛ ͜ ͝ ͞ ͟ ͠ ͡ ͢ ͣ ͤ ͥ ͦ ͧ ͨ ͩ ͪ ͫ ͬ ͭ ͮ ͯ Ͱ ͱ Ͳ ͳ ʹ ͵ Ͷ ͷ ͸ ͹ ͺ ͻ ͼ ͽ Ϳ ̀ ́ ͂ ̓ ̈́ ͅ ͆ ͇ ͈ ͉ ͊ ͋ ͌ ͍ ͎ ͏ ͐ ͑ ͒ ͓ ͔ ͕ ͖ ͗ ͘ ͙ ͚ ͛ ͜ ͝ ͞ ͟ ͠ ͡ ͢ ͣ ͤ ͥ ͦ ͧ ͨ ͩ ͪ ͫ ͬ ͭ ͮ ͯ Ͱ ͱ Ͳ ͳ ʹ ͵ Ͷ ͷ ͸ ͹ ͺ ͻ ͼ ͽ Ϳ	ss11=1

**Literacy g (only)**

Affects: U+0067 U+011D U+011F U+0121 U+0123 U+01E7 U+01F5 U+01E5 U+1E21 U+A7A1 U+1D4D

Feature	Sample	Feature setting
Standard	g ĝ ǵ ġ ğ ǧ ɡ ġ ɡ <sup>g</sup>	ss12=0
Single-story	g ĝ ǵ ġ ğ ǧ ɡ ġ ɡ <sup>g</sup>	ss12=1

## Barred-bowl forms

Affects: U+0111 U+0180 U+01E5

Feature	Sample	Feature setting
Standard	đ b ġ	ss04=0
Barred-bowl	ḑ ḃ ḡ	ss04=1

## Character alternates

### B hook

Affects: U+0181

Feature	Sample	Feature setting
Standard	B	cv13=0
Lowercase-style	Ḃ	cv13=1

### D hook

Affects: U+018A

Feature	Sample	Feature setting
Standard	D	cv17=0
Lowercase-style	Ḋ	cv17=1

### H stroke

Affects: U+0126

Feature	Sample	Feature setting
Standard	H	cv28=0
Vertical stroke	Ḣ	cv28=1

### J stroke hook

Affects: U+0284

Feature	Sample	Feature setting
Standard	ƒ	cv37=0
Top serif	ḟ	cv37=1

### Eng

Affects: U+014A

Feature	Sample	Feature setting
Standard	ŋ	cv43=0
Lowercase style on baseline	ṅ	cv43=1
Uppercase style with descender	N̊	cv43=2
Alt. lowercase style on baseline	ḡ	cv43=3

## N left hook

Affects: U+019D

Feature	Sample	Feature setting
Standard	N	cv44=0
Lowercase-style	n	cv44=1

## Open-O

Affects: U+0186 U+0254 U+1D10 U+1D53 U+1D97

Feature	Sample	Feature setting
Standard	O o O <sup>o</sup> o	cv46=0
Top serif	O o O <sup>o</sup> o	cv46=1

## OU

Affects: U+0222 U+0223 U+1D3D U+1D15

Feature	Sample	Feature setting
Standard	8 8 8 <sup>8</sup>	cv47=0
Open	8 8 8 <sup>8</sup>	cv47=1

## p hook

Affects: U+01A5

Feature	Sample	Feature setting
Standard	p	cv49=0
Right hook	p <sup>ˆ</sup>	cv49=1

## R tail

Affects: U+2C64

Feature	Sample	Feature setting
Standard	R	cv55=0
Lowercase-style	r	cv55=1

## T hook

Affects: U+01AC

Feature	Sample	Feature setting
Standard	T	cv57=0
Right hook	T <sup>ˆ</sup>	cv57=1

**V hook**

Affects: U+01B2 U+028B U+1DB9

Feature	Sample	Feature setting
Standard	U u <sup>v</sup>	cv62=0
Straight with low hook	V v <sup>v</sup>	cv62=1
Straight with high hook	V̇ v̇ <sup>ṽ</sup>	cv62=2

**Y hook**

Affects: U+01B3

Feature	Sample	Feature setting
Standard	Y	cv68=0
Left hook	Y̅	cv68=1

**Ezh**

Affects: U+01B7 U+04E0

Feature	Sample	Feature setting
Standard	З з	cv20=0
Reversed sigma	Ʒ Ʒ	cv20=1

**ezh curl**

Affects: U+0293

Feature	Sample	Feature setting
Standard	Ʒ	cv19=0
Large bowl	Ʒ̃	cv19=1

**rams horn**

Affects: U+0264

Feature	Sample	Feature setting
Standard	Ƴ	cv25=0
Large bowl	Ƴ̃	cv25=1
Small gamma	Ƴ̥	cv25=2

## Diacritic and symbol alternates

### Vietnamese-style diacritics

Affects: 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

Feature	Sample	Feature setting
Standard	Áá Àà Ăă Ãã Ấấ Ẫẫ Ằằ Ẵẵ Ếế Ềề Ểể Ễễ Ốố Ồồ Ỗỗ Ỗỗ	cv75=0
Vietnamese-style	Áấ Ằằ Ằằ Ằằ Ằằ Ằằ Ằằ Ằằ Ếế Ềề Ểể Ễễ Ốố Ồồ Ỗỗ Ỗỗ	cv75=1

### Kayan diacritics

Affects: U+0300 U+0301

Feature	Sample	Feature setting
Standard	◌̣	cv79=0
Side by side	◌̣̣	cv79=1

### Ogonek

Affects: 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

Feature	Sample	Feature setting
Standard	anything with ◌̇ (Ąą Ęę Ĳ Ĳ Qq Q̇q̇)	cv76=0
Straight	anything with ◌̣ (Ąą Ęę Ĳ Ĳ Qq Q̇q̇)	cv76=1

### Caron

Affects: U+010F U+013D U+013E U+0165

Feature	Sample	Feature setting
Standard	ď Ľ ľ ǵ	cv77=0
Global-style	ǵ Ľ ľ ǵ	cv77=1

### Modifier apostrophe

Affects: U+02BC U+A78B U+A78C

Feature	Sample	Feature setting
Standard	’ ’ ’	cv70=0
Large	’ ’ ’	cv70=1

## Modifier colon

Affects: U+A789

Feature	Sample	Feature setting
Standard	:	cv71=0
Expanded	:	cv71=1

## Empty set

Affects: U+2205

Feature	Sample	Feature setting
Standard	∅	cv98=0
Zero-style	∅	cv98=1

## Cyrillic alternates

There are also Cyrillic characters affected by the “Ezh” and “Small capitals” features. Some languages may also use the “Modifier apostrophe”.

## Cyrillic E

Affects: U+042D U+044D

Feature	Sample	Feature setting
Standard	Ә ә	cv80=0
Mongolian-style	ᠡ ᠡ	cv80=1

## Cyrillic shha

Affects: U+04BB

Feature	Sample	Feature setting
Standard	Һ	cv81=0
Uppercase-style	Һ	cv81=1

## Cyrillic breve

Affects: U+0306

Feature	Sample	Feature setting
Standard	anything with ǃ (ǃǃ)	cv82=0
Cyrillic-style	anything with ǃ (ǃǃ)	cv82=1

## Serbian Cyrillic alternates

Unlike other features this is activated by tagging the span of text as being in the Serbian language, not by turning on an OpenType feature.

Affects: U+0431

Feature	Sample	Feature setting
Standard	Ћ	
Serbian	đ	lang= 'sr'

**Macedonian Cyrillic alternates**

Unlike other features this is activated by tagging the span of text as being in the Macedonian language, not by turning on an OpenType feature.

Affects: U+0431

Feature	Sample	Feature setting
Standard	Ћ	
Macedonian	đ	lang= 'mk'

**Serbian and Macedonian Cyrillic alternates**

This feature provides an alternate way to activate the Serbian and Macedonian forms in applications that do not support language-specific features.

Affects: U+0431

Feature	Sample	Feature setting
Standard	Ћ	cv84=0
Serbian Macedonian forms	đ	cv84=1

**Tone alternates**

**Chinantec tones**

Affects: U+02CB U+02C8 U+02C9 U+02CA

Feature	Sample	Feature setting
Standard	˘ ˊ ˉ ˋ	cv90=0
Chinantec-style	˘ ˊ ˉ ˋ	cv90=1

**Tone numbers**



Affects: U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716

Feature	Sample	Feature setting
Standard	ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ ᵀ	cv91=0
Numbers	5 4 3 2 1 5 4 3 2 1	cv91=1



## Hide tone contour staves

Affects: U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716

Feature	Sample	Feature setting
Standard		cv92=0
Hide staves		cv92=1

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