

Annapurna SIL - Font Features

Annapurna SIL is an OpenType-enabled font family that supports the Devanagari script. It includes a number of optional user-selected features that may be useful or required for particular uses or languages. These OpenType features are primarily specified using four-letter tags (e.g. 'cv04' or 'ss04') to display variant characters or specific behavior. Certain apps, such as web browsers, can also use language tags to display all the language-specific variants and behaviors.

This document lists all the language and user-selected features in Annapurna SIL. For more information on how to access these features in specific environments and applications, see [Using Font Features](#). This is the preferred way of using features; however, Annapurna SIL is also available through the [TypeTuner Web](#) service, which allows you to choose among the user-selected font features (shown below) and download a font with those features preset. This enables them to work in many applications that do not make use of OpenType Stylistic Sets.

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 Annapurna SIL as a web font see [Annapurna SIL Webfont Example](#). 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.

Language-specific features

Affects: U+091D U+096B U+096E U+096F

Language	Test sequences	OpenType lang tag
Default	झ झ् झ झ् झ झ् ५ ८ ९	none
Nepali	भ भ् भ् भ् भ् भ् ५ ८ ९	NEP or ne
Newari	ख ख् ख् ख् ख् ख् ५ ८ ९	NEW or new

User-selected feature list

Stylistic Sets and Character Variants

Jha alternates

Affects: U+091D

Feature	Sample	Feature setting
Standard	झ झ् झ झ् झ झ्	ss01=0
Nepali style	भ भ् भ् भ् भ् भ्	ss01=1
Newari style	ख ख् ख् ख् ख् ख्	ss02=1

Kra alternate

Affects: U+0915 U+0930

Feature	Sample	Feature setting
Standard	क क्र	ss03=0
Open style	क क्र	ss03=1

Tra alternate

Affects: U+0924 U+0930

Feature	Sample	Feature setting
Standard	त्र त्र	ss04=0
Closed style	त्र त्र	ss04=1

Shra alternate

Affects: U+0936 U+0930

Feature	Sample	Feature setting
Standard	श्र श्र	ss05=0
Sha style	श्र श्र	ss05=1

Ukar nukta position

Affects: U+0941 U+0942 U+093C

Feature	Sample	Feature setting
Standard	कु कू कु कू	ss06=0
Outside	कु कू कु कू	ss06=1

Ekar nukta position

Affects: U+0947 U+093C

Feature	Sample	Feature setting
Standard	के	ss07=0
Above bar	के	ss07=1

Digit five alternate

Affects: U+096B

Feature	Sample	Feature setting
Standard	॥	ss08=0
Nepali style	॥	ss08=1

Digit eight alternate

Affects: U+096E

Feature	Sample	Feature setting
Standard	८	ss09=0
Nepali style	८	ss09=1

Digit nine alternates

Affects: U+096F

Feature	Sample	Feature setting
Standard	९	ss10=0
Nepali style	९	ss10=1
Newari style	८	ss11=1

Visarga with connecting bar

Affects: U+0903

Feature	Sample	Feature setting
Standard	ः	ss12=0
With bar	ः	ss12=1

Glottal stop - no connecting bar

Affects: U+097D

Feature	Sample	Feature setting
Standard	𑍇	ss13=0
No bar	𑍇	ss13=1

Dya and Hya alternates

Affects: U+0926 U+0939 U+094D U+092F

Feature	Sample	Feature setting
Standard	द्य द्य द्य द्य द्य द्य ह्य ह्य ह्य ह्य ह्य ह्य	ss14=0
Open Ya	द्य द्य द्य द्य द्य द्य ह्य ह्य ह्य ह्य ह्य ह्य	ss14=1

Archaic forms

Affects: U+0905 U+0906 U+0913 U+0914 U+0923 (U+0915 U+0937)

Feature	Sample	Feature setting
Standard	अ आ ओ औ ण ण क्ष क्ष	ss15=0
Archaic form	अ आ ओ औ ण ण क्ष क्ष	ss15=1

Ra Ukar with Nukta ligatures

Affects: U+0930 U+0931 U+0941 U+093C

Feature	Sample	Feature setting
Standard	रु रु रू रू	ss16=0
Ligature form	रु रु रू रू	ss16=1

Cha alternate

Affects: U+091B U+094D

Feature	Sample	Feature setting
Standard	छ छ छक	ss17=0
With tail or no stem	छ छ छक	ss17=1

Sha alternate

Affects: U+0936

Feature	Sample	Feature setting
Standard	श शृ	ss18=0
As a loop	श शृ	ss18=1

Headstroke alternates

Affects: U+A8FB

Feature	Sample	Feature setting
Standard	क म	cv21=0
Discrete	क म	cv21=1
Narrow	क म	cv21=2
Filler (zero advance width)	क म	cv21=3

JainOm alternate

Affects: U+A8FD

Feature	Sample	Feature setting
Standard	ॐ	cv22=0
Extended headstroke	ॐ	cv22=1

Default behavior

Many font features in Annapurna SIL, common to both OpenType and Graphite rendering engines, work behind the scenes to display the proper shaping of Devanagari characters, such as half forms and conjuncts, and to correctly position diacritics or marks. Other features (listed below) are used to create a more pleasing look. These features are always “on”.

Stacking conjunct compression

If there is a matra below a stacking conjunct, this feature compresses the conjunct which raises the matra above the descender height line. Otherwise, they could clash with matras or signs above the bar on the following line. *In the test sequence below, note the first conjunct (without a matra) is normal height.*

Affects: U+0915 U+0916 U+0917 U+0918 U+0919 U+091A U+091F U+0920 U+0921 U+092E U+0932 U+0939

Feature	Sample	Feature setting
Conjunct compression	क कु कू कु कू	Contextual Alternate 'calt'

Fractions

Note: The Ligature feature is included in the font since some OpenType applications use it instead of the Fractions feature setting.

Affects: U+0967 U+0968 U+0969 U+096A U+2044

Feature	Sample	Feature setting
No ligature (using ZWNJ)	१/२ १/४ ३/४	None
Fractions	½ ¼ ¾	Fractions 'frac' or Ligature 'liga'

Latin punctuation

The Latin characters in Annapurna SIL are derived from the Charis SIL font. However, the exclamation and question marks were redrawn to fit the style of the Annapurna Devanagari glyphs and are used by default. But they will switch to the Charis style punctuation when preceded by a Latin character. This is accomplished by use of the Contextual Alternates OpenType feature.

Affects: U+0021 U+003F

Feature	Sample	Feature setting
Devanagari style	test क़! test क़?	Default
Latin style	test kra! test kra?	Contextual Alternate 'calt'
Mixed styles	नमस्ते! Namaste!	Contextual Alternate 'calt'

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