

Annapurna SIL - Font Features

Annapurna SIL is a Graphite and 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 Graphite and 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 Graphite or 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/ Graphite tag
Default	ঞ ঙ্গ ঙ্গং ঙ্গু ঙ্গুং	none
Nepali	ঝ ঝ্ ঝ ঝ্ ঝ ঝ্ ঝ	NEP / ne
Newari	ঝ ঝ্ ঝ ঝ্ ঝ ঝ্ ঝ	NEW / new

User-selected feature list

Character Variants and Stylistic Sets

Jha alternates

Affects: U+091D

Feature	Sample	Feature setting
Standard	ঞ ঙ্গ ঙ্গং ঙ্গু ঙ্গুং	cv01=0 or ss01=0
Nepali style	ঝ ঝ্ ঝ ঝ্ ঝ ঝ্ ঝ	cv01=1 or ss01=1
Newari style	ঝ ঝ্ ঝ ঝ্ ঝ ঝ্ ঝ	cv01=2 or ss02=1

Kra alternate

Affects: U+0915 U+0930

Feature	Sample	Feature setting
Standard	କ୍ର କ୍ର	cv03=0 or ss03=0
Open style	କ୍ର କ୍ର	cv03=1 or ss03=1

Tra alternate

Affects: U+0924 U+0930

Feature	Sample	Feature setting
Standard	ତ୍ର ତ୍ର	cv04=0 or ss04=0
Closed style	ତ୍ର ତ୍ର	cv04=1 or ss04=1

Shra alternate

Affects: U+0936 U+0930

Feature	Sample	Feature setting
Standard	ଶ୍ର ଶ୍ର	cv05=0 or ss05=0
Sha style	ଶ୍ର ଶ୍ର	cv05=1 or ss05=1

Ukar nukta position

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

Feature	Sample	Feature setting
Standard	କୁ କୁ କୁ କୁ	cv06=0 or ss06=0
Outside	କୁ କୁ କୁ କୁ	cv06=1 or ss06=1

Ekar nukta position

Affects: U+0947 U+093C

Feature	Sample	Feature setting
Standard	କେ	cv07=0 or ss07=0
Above bar	କେ	cv07=1 or ss07=1

Digit five alternate

Affects: U+096B

Feature	Sample	Feature setting
Standard	៥	cv08=0 or ss08=0
Nepali style	᫈	cv08=1 or ss08=1

Digit eight alternate

Affects: U+096E

Feature	Sample	Feature setting
Standard	᭟	cv09=0 or ss09=0
Nepali style	᭙	cv09=1 or ss09=1

Digit nine alternates

Affects: U+096F

Feature	Sample	Feature setting
Standard	᭟	cv10=0 or ss10=0
Nepali style	᭙	cv10=1 or ss10=1
Newari style	᭚	cv10=2 or ss11=1

Visarga with connecting bar

Affects: U+0903

Feature	Sample	Feature setting
Standard	:	cv12=0 or ss12=0
With bar	ঃ	cv12=1 or ss12=1

Glottal stop - no connecting bar

Affects: U+097D

Feature	Sample	Feature setting
Standard	ର̄	cv13=0 or ss13=0
No bar	ର̄	cv13=1 or ss13=1

Dya and Hya alternates

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

Feature	Sample	Feature setting
Standard	ଘ ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ହ୍ୟ ହ୍ୟ ହ୍ୟ ହ୍ୟ	cv14=0 or ss14=0
Open Ya	ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ଦ୍ୟ ହ୍ୟ ହ୍ୟ ହ୍ୟ ହ୍ୟ	cv14=1 or ss14=1

Archaic forms

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

Feature	Sample	Feature setting
Standard	ଅ ଆ ଓ ଔ ଣ ଏ କ୍ଷ ଙ୍ଗ	cv15=0 or ss15=0
Archaic form	ଗ୍ର ଗ୍ରା ଗ୍ରୌ ଗ୍ରୌ ଏ କ୍ଷ ଙ୍ଗ	cv15=1 or ss15=1

Ra Ukar with Nukta ligatures

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

Feature	Sample	Feature setting
Standard	ରୁ ରୁ ରୁ ରୁ	cv16=0 or ss16=0
Ligature form	ରୁରୁ ରୁରୁ	cv16=1 or ss16=1

Cha alternate

Affects: U+091B U+094D

Feature	Sample	Feature setting
Standard	ଛ ଛୁ ଛୁକ	cv17=0 or ss17=0
With tail or no stem	ଛ ଛୁ ଛକ	cv17=1 or ss17=1

Headstroke alternates

Affects: U+A8FB

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

JainOm alternate

Affects: U+A8FD

Feature	Sample	Feature setting
Standard	ঁ	cv22=0
Extended headstroke	ঁ	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	କ କୁ କୂ କ୍ତ କ୍ତୁ	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 क! test क?	Default
Latin style	test kra! test kra?	Contextual Alternate 'calt'
Mixed styles	नमस्ते! Namaste!	Contextual Alternate 'calt'

This guide is from the [Annapurna SIL project](#) version 2.1 and is copyright © 1997-2026 SIL Global.