Annapurna SIL Nepal OpenType features

OpenType features are used by OpenType engines to render the proper shaping of Devanagari characters. However, there are some glyph variations in some majority (Nepali) and minority languages. Some applications let the user control certain features to render variant characters. Below are variants in Annapurna SIL.

Stylistic Sets

For applications which support OpenType Stylistic Sets, such as InDesign CS 4+, the Stylistic Set number is chosen. In InDesign, from the "Character" palette select "OpenType / Stylistic Sets" and then choose the Set you want to apply to the text you have selected. The default character should change to the variant character. You can also set your Stylistic Set preference in paragraph and character styles. It is recommended to have "[No language]" selected if there is no Devanagari based language available.

Character variant	Stylistic Set	Default characters	Variant characters
Jha alternate 1	set 1	झ भ झ भ झ झ	झ इ झ इ झ झ
Jha alternate 2	set 2	झ भ झ भ झ झ	ऋ ऋ ऋ ऋ ऋ ऋ
Kra alternate	set 3	क्र क्र	क्र क्र
Tra alternate	set 4	त्र त्र	त्र त्र
Shra alternate	set 5	श्र श्र	श्र श्र
Ukar nukta position	set 6	कु कू कु कू	कु कू कु कू
Ekar nukta position	set 7	के	के
Digit five alternate	set 8	५	५
Digit eight alternate	set 9	८	८
Digit nine alternate 1	set 10	९	९
Digit nine alternate 2	set 11	९	८
Visarga with bar	set 12	:	ः
Glottal stop - no bar	set 13	ॽ	ॽ
Dya alternates	set 14	द्य द्य द्य द्य द्य द्य	दय दय दय दय दय दय
Hya alternates		ह्य ह्य ह्य ह्य ह्य ह्य	हय हय हय हय हय हय
Archaic forms	set 15	अ आ ओ औ ण ण क्ष ॡ	ꣃ ꣃ ꣃ ꣃ ण ण ꣃ ꣃ
not used	set16		
not used	set 17		
not used	set 18		
not used	set 19		
not used	set 20		

Annapurna SIL common font features

Many font features in Annapurna SIL are common to both OpenType and Graphite rendering engines to render the proper shaping of Devanagari characters. Other features are used to create a more pleasing look. In Graphite and Uniscribe applications, these features are always "on". In Adobe CS4, these features (Fractions and Contextual Alternates) are user selectable through the OpenType selection list.

Fractions

No OpenType (Fractions and Ligatures off)	१/२ १/४ ३/४
Fractions OpenType and Graphite feature	½ ¼ ¾
Ligatures OpenType feature*	½ ¼ ¾

* The Ligatures feature is included in the font since applications using Uniscribe use it instead of the Fractions feature.

Contextual Alternates

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. However, they will switch to the Charis style when preceded by a Latin character. This is accomplished by use of the Contextual Alternates OpenType feature.

No OpenType (Contextual Alternates off)	test? test! (Annapurna style)
Contextual Alternates OpenType feature	test? test! (Charis style)
Example (Contextual Alternates on)	क्या तुम ठीक हो? kyā tum ṭhīk ho?

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.

No OpenType (Contextual Alternates off)	क्रि क्रु क्रू क्रु क्रू
Contextual Alternates OpenType feature	क्रि क्रु क्रू क्रु क्रू

Variations controlled with ZWJ

These are not font features as such but are variations that can be controlled by the use of ZWJ (U+200D).

Ra halant / Ra nukta halant	र् ऱ्
Ra halant ZWJ / Ra nukta halant ZWJ	्‍ ्‍

Some variations below are used by minority languages.

Ru/Ruu ligatures	रु रू रु रू रू रू रू
Ru/Ruu with ZWJ before matra	रु रू रु रू रू रू रू