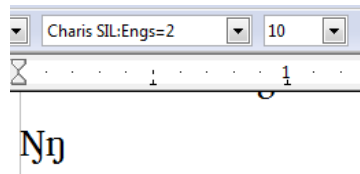
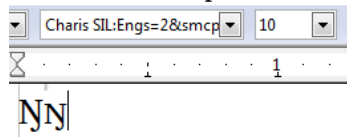


Font Features for Charis SIL

When Charis 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 (ie Charis 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 “Charis 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, “Charis 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 Charis 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+1EC2 U+1EC3 U+1EC4 U+1EC5 U+1ED0 U+1ED1 U+1ED2 U+1ED3 U+1ED4 U+1ED5 U+1ED6 U+1ED7) | cv75 | viet (old:1029) | 0=False | Áá Àà Ăă Ãã Ää Åå Ææ Éé Èè Êê Ëë Óó Ôò Õõ Öö | ÁÁ ÀÀ ĂĂ ÃÃ ÄÄ ÅÅ ÆÆ ÉÉ ÈÈ ÊÊ ËË ÓÓ ÔÔ ÕÕ ÖÖ | R, O |
| | | | 1=Vietnamese-style | Áấ Àầ Ắắ Ẫẫ Ẳẳ Ằằ Ẵẵ Ếế Ềề Ểể Ễễ Ốố Ồồ Ổổ Ỡỗ | Áấ Àầ Ắắ Ẫẫ Ẳẳ Ằằ Ẵẵ Ếế Ềề Ểể Ễễ Ốố Ồồ Ổổ Ỡỗ | |
| Serbian-style alternates (U+0431 U+0433 U+0434 U+043F U+0442) | locl (accessed through Serbian language) | serb | 0=False | Бб Гг Дд Пп Тт | ББ ГГ ДД ПП ТТ | R |
| | | | 1=True | Бѣ Гѣ Дѣ Пѣ Тѣ | ББ ГГ ДД ПП ТТ | |
| Chinantec tones (U+02CB U+02C8 U+02C9 U+02CA) | cv90 | chtn (old:1057) | 0=False | ˘ ˙ ˉ ˊ | Small capitals are not available as there is no uppercase equivalent | R |
| | | | 1=Chinantec-style | ˘ ˙ ˉ ˊ | | |
| Bridging diacritics (U+0308 – used with “L” and “l”, U+0311, U+0361 and U+035F – used with “O”, “o”, “U” and “u”.) | - | brig (old:1052) | 0=False | Naso: L̈L̈ l̈ l̈ Konai: Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü | Small capitals do not work properly | G |
| | | | 1=True | Naso: L̈L̈ l̈ l̈ Konai: Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü Ô̈Ü Ô̈ü ô̈ü | | |

¹**TypeTuner 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 | ᠡᠭ | ᠡᠭ | R |
| | | | 1=Mongolian-style | ᠢᠭ | ᠢᠭ | |
| Combining breve Cyrillic form (U+0306) | cv82 | sbrv (old:1028) | 0=False | anything with ͂ (ӇӇ) | anything with ͂ (ӇӇ) | R (no effect if data is NFC) |
| | | | 1=Cyrillic-style | anything with ̓ (ӈӈ) | anything with ̓ (ӈӈ) | |
| Cyrillic shha alternate (U+04BB) | cv81 | shha (old:1056) | 0=False | ҺҺ | ҺҺ | R |
| | | | 1=Uppercase style | һһ | һһ | |
| Tone-related | | | | | | |
| Tone numbers (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716) | cv91 | tone (old:1026) | 0=Bars | ᳵ ᳶ ᳷ ᳸ ᳹ ᳺ ᳻ ᳼ | Small capitals are not available as there is no uppercase equivalent | G |
| | | | 1=Numbers | ᳵ ᠔ ᠔ 3 2 1 5 4 3 2 1 | | |
| Hide tone contour staves (U+02E5 U+02E6 U+02E7 U+02E8 U+02E9 U+A712 U+A713 U+A714 U+A715 U+A716) | cv92 | tstv (old:1050) | 0=False | ᳵ ᳶ ᳷ ᳸ ᳹ ᳺ ᳻ ᳼ (ᳵ ᳶ) | Small capitals are not available as there is no uppercase equivalent | G |
| | | | 1=True | - - - - - (ᳵ ᳶ) | | |
| 9-level pitches (U+F1F1 U+F1F2 U+F1F3 U+F1F4 U+F1F5 U+F1F6 U+F1F7 U+F1F8 U+F1F9) | - | p1t9 (old:1062) | 0=No tramlines | ᳵᳶ᳷᳸᳹ᳺ᳻᳼ (ᳵᳶ) | Small capitals are not available as there is no uppercase equivalent | G |
| | | | 1=Tramlines | ᳵᳶ᳷᳸᳹ᳺ᳻᳼ (ᳵᳶ) | | |
| | | | 2=Non-ligated with no tramlines | ᳵᳶ᳷᳸᳹ᳺ᳻᳼ (ᳵᳶ) | | |
| | | | 3=Non-ligated with tramlines | ᳵᳶ᳷᳸᳹ᳺ᳻᳼ (ᳵᳶ) | | |

² There are also Cyrillic characters affected by the “Capital Ezh alternates”, “Small capitals” and “Show deprecated PUA” features. 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+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+0067 U+011D U+011F U+0121 U+0123 U+01E7 U+01F5 U+01E5 U+1E21, U+A7A1) | ss01 | litr (old:1032) | 0=False (default) | Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă ȦȦ ǺǺ Āā Āā ǺǺ Āā Āā Àà Àà ȦȦ ȦȦ ȦȦ ȦȦ Āā Āā ȦȦ ȦȦ Āā Āā ȦȦ ȦȦ ȦȦ ȦȦ Ġġ Ġġ Ġġ Ġġ Ġġ Ġġ Ġġ Ġġ | AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ Ăă ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ĀĀ ĀĀ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ĀĀ ĀĀ ȦȦ ȦȦ ȦȦ ȦȦ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ | R |
| | | | 1=True | Aa Àà Áá Ââ Ãã Ää Åå Āā Ăă ȦȦ ȦȦ Āā Āā ȦȦ Āā Āā Àà Àà ȦȦ ȦȦ ȦȦ ȦȦ Āā Āā ȦȦ ȦȦ Āā Āā ȦȦ ȦȦ ȦȦ ȦȦ Ġġ Ġġ Ġġ Ġġ Ġġ Ġġ Ġġ Ġġ | AA ÀÀ ÁÁ ÂÂ ÃÃ ÄÄ ÅÅ ĀĀ Ăă ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ĀĀ ĀĀ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ȦȦ ĀĀ ĀĀ ȦȦ ȦȦ ȦȦ ȦȦ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ ĠĠ | |
| 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 | Đđ Bb Gg | ĐĐ BB GG | |

| Feature Name | OpenType feature ID | Graphite feature ID | Feature Setting | Example | Example with Small Capitals | TypeTuner Notes |
|--|------------------------|------------------------|----------------------|---|--|-----------------|
| Slant italic specials (U+0061 U+00E3 U+00E0 U+00E1 U+00E2 U+00E4 U+00E5 U+0101 U+0103 U+01CE U+01DF U+01E1 U+01FB U+0201 U+0203 U+0227 U+1E01 U+1E9A U+1EA3 U+1EA5 U+1EA7 U+1EA9 U+1EAB U+1EAD U+1EAF U+1EB1 U+1EB3 U+1EB5 U+1EA1 U+1EB7 U+2C65 U+0250 U+00E6 U+0066 U+1E1F U+0069 U+00EC U+00ED U+00EE U+00EF U+0129 U+012B U+012D U+012F U+01D0 U+0209 U+020B U+1E2D U+1E2F U+1EC9 U+1ECB U+0131 U+006C U+013A U+1E37 U+1E39 U+1E3B U+1E3D U+0076 U+1E7D U+1E7F U+007A U+017A U+017C U+017E U+1E91 U+1E93 U+1E95 U+0493 U+04FB U+0327 U+A749 U+A75F) | ss05 | Ital (old:1053) | 0=False | <i>Aa Ãã Àà Áá Ââ Ää Åå Āā Ăă Ǻǻ Āā</i> <i>Āā Áá Àà Ââ Àà Ạạ ả Ǻ Ǻ Ǻ Ǻ Ǻ Ǻ</i> <i>Ậậ Ắắ Ằằ Ẵẵ Ạạ Ặặ Ạạ v Ææ Ff Ff</i> <i>Ỉỉ Ìì Íí Îî Ïï Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ</i> <i>Ļļ Ļļ Ļļ Ļļ Ļļ Vv Vv Vv Vv Zz Żż Źź Žž</i> <i>Žž Zz Zz Ff Ff Ff</i> | <i>AA ÃÃ ÀÀ ÁÁ ÂÂ ÄÄ ÅÅ ĀĀ Ăă Ǻǻ</i> <i>Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ</i> <i>Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ ẬẬ ẮẮ Ằằ Ẵẵ</i> <i>ẶẶ Ỉỉ Ìì Íí Îî Ïï Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ</i> <i>Ļļ Ļļ Ļļ Ļļ Ļļ Vv Vv Vv Vv Zz Żż Źź Žž</i> <i>Žž Zz Zz Ff Ff Ff</i> | R |
| | | | 1=True | <i>Aa Ãã Àà Áá Ââ Ää Åå Āā Ăă Ǻǻ Āā</i> <i>Āā Áá Àà Ââ Àà Ạạ ả Ǻ Ǻ Ǻ Ǻ Ǻ Ǻ</i> <i>Ậậ Ắắ Ằằ Ẵẵ Ạạ Ặặ Ạạ v Ææ Ff Ff</i> <i>Ỉỉ Ìì Íí Îî Ïï Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ</i> <i>Ļļ Ļļ Ļļ Ļļ Ļļ Vv Vv Vv Vv Zz Żż Źź Žž</i> <i>Žž Zz Zz Ff Ff Ff</i> | <i>AA ÃÃ ÀÀ ÁÁ ÂÂ ÄÄ ÅÅ ĀĀ Ăă Ǻǻ</i> <i>Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ</i> <i>Ǻǻ Ǻǻ Ǻǻ Ǻǻ Ǻǻ ẬẬ ẮẮ Ằằ Ẵẵ</i> <i>ẶẶ Ỉỉ Ìì Íí Îî Ïï Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ Ĳ ĳ</i> <i>Ļļ Ļļ Ļļ Ļļ Ļļ Vv Vv Vv Vv Zz Żż Źź Žž</i> <i>Žž Zz Zz Ff Ff Ff</i> | |
| Non-European caron alternates (U+0164 U+0165 U+010E U+010F U+013D U+013E) | cv77 | carn (old:1063) | 0=European style | Ťť Ďď Ľľ | ŤŤ ĎĎ ĽĽ | R |
| | | | 1=Non-European style | Ťť Ďď Ľľ | ŤŤ ĎĎ ĽĽ | |
| 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) | cv76 | ogon (old:1043) | 0=Curved | anything with ˛ (Aą Eę Ii Uu Qq Œœ) | anything with ˛ (AA EE II UU QQ Œœ) | R |
| | | | 1=Straight | anything with ˛ (Aą Eę Ii Uu Qq Œœ) | anything with ˛ (AA EE II UU QQ Œœ) | |
| Capital B-hook alternate (U+0181) | cv13 | B_hk (old:1064) | 0=Uppercase style | ᐁᐁ | ᐁᐁ | R |
| | | | 1=Lowercase style | ᐁᐁ | ᐁᐁ | |

| Feature Name | OpenType feature ID | Graphite feature ID | Feature Setting | Example | Example with Small Capitals | TypeTuner Notes |
|---|------------------------|------------------------|-----------------------------|---------|--|-----------------|
| Capital D-hook alternate (U+018A) | cv17 | D_hk | 0=Uppercase style | Dd | ᎠᎡ | R |
| | | | 1=Lowercase style | ᎠᎡ | ᎠᎡ | |
| Rams horn alternates (U+0264) | cv25 | ramh (old:1025) | 0=Small bowl | Ꭱ | Small capitals are not available as there is no uppercase equivalent | R |
| | | | 1=Large bowl | Ꭲ | | |
| | | | 2=Small gamma | Ꭳ | | |
| Capital H-stroke alternate (U+0126) | cv28 | Hstk (old:1038) | 0=False | Hh | ᎦᎦ | R |
| | | | 1=Vertical-stroke | Hh | ᎦᎦ | |
| J-stroke hook alternate (U+0284) | cv37 | Jstk (old:1049) | 0=No serif | 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 | ᎧᎧ | ᎧᎧ | R |
| | | | 1=Large eng on baseline | ᎨᎧ | ᎨᎧ | |
| | | | 2=Capital N with tail | ᎩᎧ | ᎩᎧ | |
| | | | 3=Large eng with short stem | ᎪᎧ | ᎪᎧ | |
| Capital N-left-hook alternate (U+019D) | cv44 | N_hk (old:1035) | 0=Uppercase style | ᎫᎫ | ᎫᎫ | R |
| | | | 1=Lowercase style | ᎬᎫ | ᎬᎫ | |
| Open-O alternate (U+0186 U+0254 U+1D10 U+1D53 U+1D97) | cv46 | opnO (old:1059) | 0=Bottom serif | Ꭽ Ꭽ Ꭽ Ꭽ | Ꭽ Ꭽ Ꭽ Ꭽ | R |
| | | | 1=Top serif | Ꭽ Ꭽ Ꭽ Ꭽ | Ꭽ Ꭽ Ꭽ Ꭽ | |
| Small p-hook alternate (U+01A5) | cv49 | p_hk (old:1040) | 0=Left hook | ᎮᎮ | ᎮᎮ | R |
| | | | 1=Right hook | ᎮᎮ | ᎮᎮ | |

| Feature Name | OpenType feature ID | Graphite feature ID | Feature Setting | Example | Example with Small Capitals | TypeTuner Notes |
|---|------------------------|------------------------|---------------------------|------------------|--|-----------------|
| Capital R-tail alternate (U+2C64) | cv55 | R_tl (old:1039) | 0=Uppercase style | Rṛ | ṚṚ | R |
| | | | 1=Lowercase style | Ṛṛ | Ṛṛ | |
| Capital T-hook alternate (U+01AC) | cv57 | t_hk (old:1037) | 0=Left hook | Tṭ | TṬ | R |
| | | | 1=Right hook | Tṭ | TṬ | |
| V-hook alternates (U+01B2 U+028B U+1DB9) | cv62 | v_hk: (old:1033) | 0=Curved | Uṽṽ | Uṽṽ | R |
| | | | 1=Straight with low hook | Vṽṽ | Vṽṽ | |
| | | | 2=Straight with high hook | Vṽṽ | Vṽṽ | |
| Capital Y-hook alternate (U+01B3) | cv68 | Y_hk (old:1034) | 1=Right hook | Yṽ | Yṽ | R |
| | | | 0=Left hook | Yṽ | Yṽ | |
| Small ezh-curl alternate (U+0293) | cv19 | ezhc (old:1036) | 0=Small bowl | ᶑ | Small capitals are not available as there is no uppercase equivalent | R |
| | | | 1=Large bowl | ᶑ | | |
| Capital Ezh alternates (U+01B7 U+04E0) | cv20 | Ezhr (old:1042) | 0=Normal | ᶑᶑ ᶑᶑ | ᶑᶑ ᶑᶑ | R |
| | | | 1=Reversed sigma | ᶑᶑ ᶑᶑ | ᶑᶑ ᶑᶑ | |
| 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 | 888 ⁸ | |
| Modifier apostrophe alternates (U+02BC U+A78B U=A78C) | cv70 | apos (old:1044) | 0=Small | ᶑ ᶑ | Small capitals are not available | R |
| | | | 1=Large | ᶑ ᶑ | | |
| Modifier colon alternate (U+A789) | cv71 | coln (old:1047) | 0=Tight | : | Small capitals are not available as there is no uppercase equivalent | R |
| | | | 0=Wide | : | | |

| Feature Name | OpenType feature ID | Graphite feature ID | Feature Setting | Example | Example with Small Capitals | TypeTuner Notes |
|----------------|------------------------|------------------------|--------------------------|---|---|-----------------|
| | | | | <p> л н њ ч м і а ä æ ё э э ж з з и й ö ø ö ë ü ü ý ÿ ċ ģ ħ ı x d ğ ʒ ʒ ʟ ʟ ɢ ɢ ɛ ɛ ɟ лх рх æ q w к љ љ ц ѣ н дж ѣ л </p> | <p> П Р Т ' Ч Н Ъ В Ф Ө К Њ Р S Н З Ǫ Л Я Л А Б В Г Д Е Ж З И Й К Л М Н О П Р С Т У Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю Я È Ê Ъ Ѓ Є S I Ĭ Ј Љ Њ Њ Ќ Ў Ў Љ Ў V Ў Ђ Р Г Г Ђ Ж З К К К К Њ Н Њ Ѡ ѡ Ѣ ѣ Ѥ ѥ Ѧ ѧ Ѩ ѩ Ќ Ќ Ѭ Ѭ ѭ ѭ Ѯ Ѯ ѯ ѯ Ѱ Ѱ Й Й Ö Ø Æ Æ Ü Ü Ý Ý ċ ģ ħ ı x d ġ ʒ ʒ ʟ ʟ ɢ ɢ ɛ ɛ ɟ лх рх æ q w к љ љ ц ѣ н дж ѣ л </p> | |
| Other Features | | | | | | |
| Line spacing | - | - | Normal Tight Loose | Allows for adjustment of the default line spacing in the font. | | T |