Font Features for Lateef

The Lateef font is a TrueType font with smart font capabilities added using the OpenType font technology.The chart below enumerates the details of these features. Whether these features are available to users will depend on the application being used. Some applications let the user control certain features such as Character Variants to turn on the rendering of variant characters. However, at this point, most applications do not make use of those features so another solution is needed to show the variant characters. TypeTuner creates tuned fonts that use the variant glyph in place of the standard glyph. TypeTuner also provides the ability to turn on support for the Kurdish, Kyrgyz, Rohingya, Sindhi, Urdu, and Wolof languages variants.

Features

When Lateef is used in applications that provide an appropriate user interface, various user-controllable font features are available allowing access to alternatively-designed glyphs.

The table below gives a visual representation of the featured character glyphs in the font. Note that within each feature the top-most value is the default. The other lines show the first alternate and, if available, the second or third alternates.

List of Graphite features and OpenType Character Variants

Feature Name	**Feature ID**	**Feature Setting** (top-most in each section is default)	**Example**
Meem (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard	م ممم ﻡ ﻣﻤﻢ ﻢ ﻤﻴﻢ
		1=Sindhi-style XeTeX: "Lateef/GR:Meem=Sindhi-style"	م ممم ﻡ ﻣﻤﻢ ﻢ ﻤﻴﻢ
Heh (U+0647)	cv48	0=Standard	ه ههه

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example
		3=Kurdish-style XeTeX: "Lateef/GR:Heh=Kurdish-style"	ھ ھھ
		1=Sindhi-style XeTeX: "Lateef/GR:Heh=Sindhi-style"	ھ ھھ
		2=Urdu-style XeTeX: "Lateef/GR:Heh=Urdu-style"	ہ ہہ
Kirghiz OE (U+06C5)	cv51	0=Loop	ۆ
		1=Bar XeTeX: "Lateef/GR:Kirghiz OE=Bar"	ۇ
Yeh hamza (U+0626)	cv54	0=Standard	ئ ئئ
		1=Right hamza XeTeX: "Lateef/GR:Yeh hamza=Right hamza"	ئ ئئ
Shadda+kasra placement (U+064D, U+0650 with U+0651)	cv62	0=Default (Raised)	بِّ بِّ بِّ
		1=Lowered XeTeX: "Lateef/GR:Shadda+kasra placement=Lowered"	بِّ بِّ بِّ

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example
		2=Raised	بِّ ٍّ بٍّ ٍّ
Damma (U+064F)	cv70	0=Standard	بُ ٗ
		1=Filled XeTeX: "Lateef/GR:Damma=Short"	بُ ٗ
Dammatan (U+064C)	cv72	0=Standard	بٌ ٗ
		1=Six-nine XeTeX: "Lateef/GR:Dammatan=Six-nine"	بٌ ٗ
Superscript Alef (U+0670 on all yeh, sad and seen-like characters U+0649 U+064A U+06D0 U+06D1 U+0777 U+06CC U+0635 U+0636 U+069D U+069E U+06FB U+08AF U+0633 U+0634 U+069A U+069B U+069C U+06FA U+075C U+076D U+0770 U+077D U+077E)	cv76	0=Default (Large)	ۓ ۓ ى ىٰ ئ ئ ى ىٰ ي يٰ ي يٰ ئ ئ ى ىٰ ي يٰ ي يٰ ٻ ٻ ٻ ٻ پ پ پ پ ڀ ڀ ڀ ڀ ٺ ٺ ٺ ٺ ٹ ٹ ٹ ٹ ٿ ٿ ٿ ٿ ٽ ٽ ٽ ٽ ڦ ڦ ڦ ڦ ٹ ٹ ٹ ٹ ڄ ڄ ڄ ڄ ڃ ڃ ڃ ڃ چ چ چ چ ڇ ڇ ڇ ڇ ڍ ڍ ڈ ڈ ڌ ڌ ډ ډ ڊ ڊ ڏ ڏ ڎ ڎ ڑ ڑ ژ ژ ڙ ڙ ڗ ڗ ڒ ڒ ڔ ڔ ڕ ڕ ښ ښ ڛ ڛ ڜ ڜ ڝ ڝ ڞ ڞ ڟ ڟ ڠ ڠ ڡ ڡ ڢ ڢ ڣ ڣ ڤ ڤ ڥ ڥ ڦ ڦ ڧ ڧ ڨ ڨ ک ک ڪ ڪ ګ ګ ڬ ڬ ڭ ڭ ڮ ڮ ڰ ڰ ڱ ڱ ڲ ڲ ڳ ڳ ڴ ڴ ڵ ڵ ڶ ڶ ڷ ڷ ڸ ڸ ڹ ڹ ں ں ڻ ڻ ڼ ڼ ڽ ڽ ھ ھ ڿ ڿ ۀ ۀ ہ ہ ۂ ۂ ۃ ۃ ۄ ۄ ۅ ۅ ۆ ۆ ۇ ۇ ۈ ۈ ۉ ۉ ۊ ۊ ۋ ۋ ی ی ۍ ۍ ێ ێ ې ې ۑ ۑ ے ے ۓ ۓ
		2=Small XeTeX: "Lateef/GR:Superscript Alef=Small"	ۓ ۓ ى ىٰ ئ ئ ى ىٰ ي يٰ ي يٰ ئ ئ ى ىٰ ي يٰ ي يٰ ٻ ٻ ٻ ٻ پ پ پ پ ڀ ڀ ڀ ڀ ٺ ٺ ٺ ٺ ٹ ٹ ٹ ٹ ٿ ٿ ٿ ٿ ٽ ٽ ٽ ٽ ڦ ڦ ڦ ڦ ٹ ٹ ٹ ٹ ڄ ڄ ڄ ڄ ڃ ڃ ڃ ڃ چ چ چ چ ڇ ڇ ڇ ڇ ڍ ڍ ڈ ڈ ڌ ڌ ډ ډ ڊ ڊ ڏ ڏ ڎ ڎ ڑ ڑ ژ ژ ڙ ڙ ڗ ڗ ڒ ڒ ڔ ڔ ڕ ڕ ښ ښ ڛ ڛ ڜ ڜ ڝ ڝ ڞ ڞ ڟ ڟ ڠ ڠ ڡ ڡ ڢ ڢ ڣ ڣ ڤ ڤ ڥ ڥ ڦ ڦ ڧ ڧ ڨ ڨ ک ک ڪ ڪ ګ ګ ڬ ڬ ڭ ڭ ڮ ڮ ڰ ڰ ڱ ڱ ڲ ڲ ڳ ڳ ڴ ڴ ڵ ڵ ڶ ڶ ڷ ڷ ڸ ڸ ڹ ڹ ں ں ڻ ڻ ڼ ڼ ڽ ڽ ھ ھ ڿ ڿ ۀ ۀ ہ ہ ۂ ۂ ۃ ۃ ۄ ۄ ۅ ۅ ۆ ۆ ۇ ۇ ۈ ۈ ۉ ۉ ۊ ۊ ۋ ۋ ی ی ۍ ۍ ێ ێ ې ې ۑ ۑ ے ے ۓ ۓ

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example
Sukun (U+0652)	cv78	0=Closed	بْ
		1=Open down XeTeX: "Lateef/GR:Sukun=Open down"	بْ
		2=Open left XeTeX: "Lateef/GR:Sukun=Open left"	بْ
End of ayah (U+06DD)	cv80	0=Standard	۳۴۵ 123
		1=Simplified A XeTeX: "Lateef/GR:End of ayah=Simplified A"	۳۴۵ 123
		2=Simplified B XeTeX: "Lateef/GR:End of ayah=Simplified B"	۳۴۵ 123
Eastern digits (U+06F4, U+06F6, U+06F7)	cv82	0=Standard	۴۵۶۷
		1=Sindhi-style XeTeX: "Lateef/GR:Eastern digits=Sindhi-style"	۴۵٦۷
		2=Urdu-style XeTeX: "Lateef/GR:Eastern digits=Urdu-style"	۴۵٦۷
		4=Rohingya-style XeTeX: "Lateef/GR:Eastern digits=Rohingya-style"	٤۵٦۷
Comma (U+060C, U+061B)	cv84	0=Upward	؛ ،
		1=Downward XeTeX: "Lateef/GR:Comma=Downward"	؛ ،
Line spacing		Tight Normal Loose	Allows for adjustment of the default line spacing in the font (values shown are ordered in increasing line spacing).

List of Language-specific features

The language-specific features that are in the font are demonstrated below:

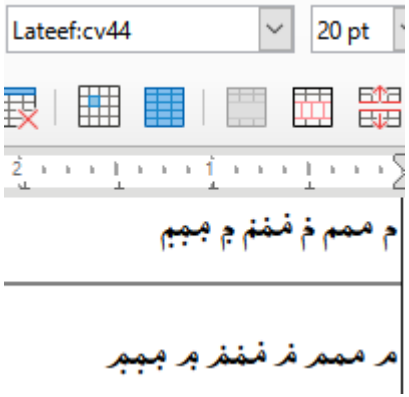
Language	Lang ID	**Feature Setting** (top-most in each section is default)	**Character Shapes**
Default			م ممم ۏ ۏۏۏ ۏ ۏۏۏ ه ههه ئ ئئئ ،؛ ۴۵۶۷ ◌ِّ ◌ٌ
Kurdish (Northern)	ku	Language set to Kurdish XeTeX: "Lateef/GR:language=ku" (Graphite) XeTeX: "Lateef:language=ku" (OpenType) HTML: lang="ku"	م ممم ۏ ۏۏۏ ۏ ۏۏۏ ه ههه ئ ئئئ ،؛ ۴۵۶۷ ◌ِّ ◌ٌ
Kyrgyz	ky	Language set to Kyrgyz XeTeX: "Lateef/GR:language=ky" (Graphite) XeTeX: "Lateef:language=ky" (OpenType) HTML: lang="ky"	م ممم ۏ ۏۏۏ ۏ ۏۏۏ ه ههه ئ ئئئ ،؛ ۴۵۶۷ ◌ِّ ◌ٌ
Rohingya	rhg	Language set to Rohingya XeTeX: "Lateef/GR:language=rhg" (Graphite) XeTeX: "Lateef:language=rhg" (OpenType) HTML: lang="rhg"	م ممم ۏ ۏۏۏ ۏ ۏۏۏ ه ههه ئ ئئئ ،؛ ٤٥٦٧ ◌ِّ ◌ٌ
Sindhi	sd	Language set to Sindhi XeTeX: "Lateef/GR:language=sd" (Graphite) XeTeX: "Lateef:language=sd" (OpenType) HTML: lang="sd"	م ممم ۏ ۏۏۏ ۏ ۏۏۏ ه ههه ئ ئئئ ،؛ ۴۵٦٧ ◌ِّ ◌ٌ
Urdu	ur	Language set to Urdu XeTeX: "Lateef/GR:language=ur" (Graphite) XeTeX: "Lateef:language=ur" (OpenType) HTML: lang="ur"	م ممم ۏ ۏۏۏ ۏ ۏۏۏ ه ههه ئ ئئئ ،؛ ۴۵٦٧ ◌ِّ ◌ٌ

Use of Graphite Features, OpenType Character Variants, and Language-specific features

LibreOffice

In LibreOffice 3.4+[1] there are a few steps the user may need to do before using Arabic script and language support. The font would be set to “Lateef” and then the language must be selected in the application. In LibreOffice, first enable complex text layout (**Tools / Options / Language Settings / Languages** and then select **Enabled for complex text layout (CTL).** Then, select the text, click on the status bar to change the language, select the language (if it is not displayed, click on “More...”).

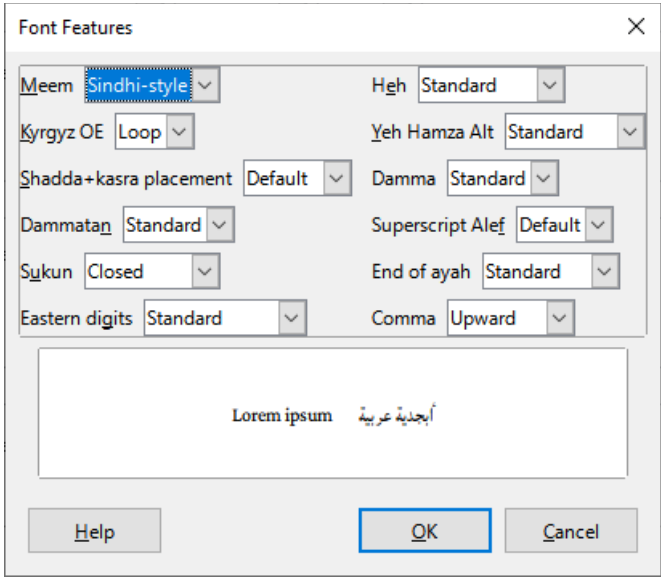
The font features can be turned on by choosing the font (ie Lateef), followed by a colon, followed by the feature ID, and then followed by the feature setting. So, for example, if the “Meem” Sindhi-style variant is desired, the font selection would be “**Lateef:cv44=1**”.



If you wish to apply two (or more) features, you can separate them with an “&”. Thus, “Lateef:cv44=1&cv48=1” would apply the “Meem” plus the “Sindhi-style” of the “Heh” feature.

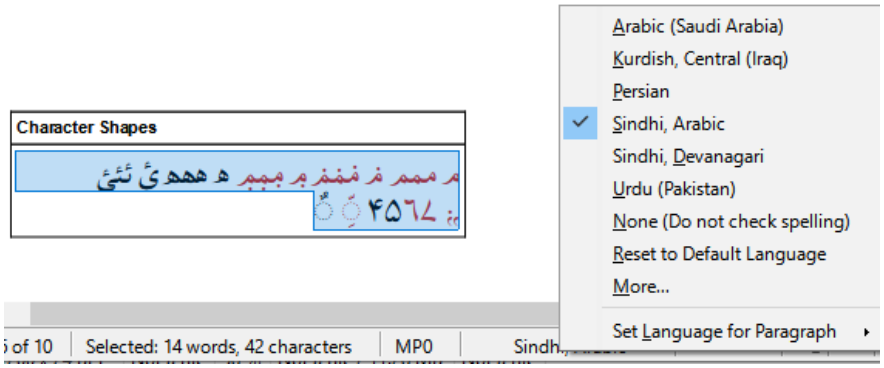
Newer versions of LibreOffice have a user interface which allows selection of the Font Features. Select your text (or style) and go to **Format / Character**. Choose the Lateef font and click on **Features**. Then select the features you wish to turn on.

1 Download here: http://www.libreoffice.org/download.



LibreOffice allows the user to select languages (or even add a language); the default glyphs will change based on the language preferences. Currently LibreOffice allow for the selection of Kurdish, Sindhi, and Urdu. If an application allows you to select any of the languages, the default glyphs will change based on the language preferences.

In the following screenshot, the Sindhi language has been selected.



It is also possible to choose the language through the font menu in LibreOffice:

Sindhi: م ممم ڧ ڧڧڧ ۾ ۾۾۾ (Lateef:lang=sd)

Microsoft Word

Word does not allow for the selection of Character Variants. However, it does support language selection of Urdu and Sindhi.

Before opening Word, go to **Start / All Programs / Microsoft Office / Microsoft Office 2016 Tools / Microsoft Office 2016 Language Preferences** and add any editing languages you want to use.

XeTeX

For XeTeX[2], Graphite Feature IDs are not used. Use the **Feature Name** and **Feature setting**, e.g., if Character Variant 12 was desired, the font selection would be: "Lateef/GR:Dal=Alternate" at 12pt

Languages in XeTeX can be accessed by using: "Lateef/GR:language=ur" (for Graphite) or "Lateef:Arab:language=URD" (for OpenType).

OpenType Character Variants

Currently there are very few applications which support OpenType Character Variants.

For applications which do support OpenType Character Variants, such as in CSS, the Character Variant ID and setting is chosen. For example, in CSS, if cv32, is desired, you might have this code in your .css:

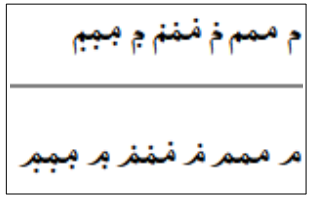
```
...
@font-face {
  font-family: Lateef;
  src: url(Lateef-Regular.woff);
}
.cv440 {
  font-family: Lateef;
  font-feature-settings: "cv44" 0;
}
.cv441 {
  font-family: Lateef;
  font-feature-settings: "cv44" 1;
}
…
```

and this in your .html:

```
<p class=cv440>م ممم مْ مْفْمْ مِ مِمِم</cv440></p>
<p class=cv441>م ممم مْ مْفْمْ مِ مِمِم</cv41></p>
```

2 http://tug.org/xetex/

Which would produce this:



TypeTuner

At this point, most applications do not make use of these features (neither Graphite or OpenType Character Variants nor language features) so another solution is needed to use the variant characters. TypeTuner creates tuned fonts that use the variant glyph in place of the standard glyph. The TypeTuner Web site is http://scripts.sil.org/ttw/fonts2go.cgi.