

# Font Features for Lateef



The Lateef font includes a number of optional features that provide alternative rendering that might be preferable for use in some contexts. The chart below enumerates the details of these features. Whether these features are available to users will depend on both the application and the rendering technology (Graphite or OpenType) being used. Most features are available in both Graphite and OpenType, though there may be minor differences in their implementation.

## Features

When Lateef is used in applications that support Graphite or OpenType, and 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	Implementation Notes <sup>1</sup>
Meem (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard		G,O,T
		1=Sindhi-style  XeTeX: "Lateef/GR:Meem=Sindhi-style"		

1 **TypeTuner legend:** **G**=Implemented in Graphite; **O**=Implemented in OpenType; **T**=Implemented in TypeTuner (command line version: <http://scripts.sil.org/TypeTuner> and web-based version: <http://scripts.sil.org/ttw>) .

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
<b>Heh</b> (U+0647)	cv48	0=Standard	ه ههه	G,O,T
		3=Kurdish-style XeTeX: "Lateef/GR:Heh=Kurdish-style"	ه ههه	
		1=Sindhi-style XeTeX: "Lateef/GR:Heh=Sindhi-style"	ه ههه	
		2=Urdu-style XeTeX: "Lateef/GR:Heh=Urdu-style"	ه ههه	
<b>Kirghiz OE</b> (U+06C5)	cv51	0=Loop	و	G,O,T
		1=Bar XeTeX: "Lateef/GR:Kirghiz OE=Bar"	و	
<b>Yeh hamza</b> (U+0626)	cv54	0=Standard	ئ ئئئ	G,O,T
		1=Right hamza XeTeX: "Lateef/GR:Yeh hamza=Right hamza"	ئ ئئئ	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
<b>Shadda+kasra placement</b> (U+064D, U+0650 with U+0651)	cv62	0=Default (Raised)	بَ بَ بَ بَ	G,O,T
		1=Lowered XeTeX: "Lateef/GR:Shadda+kasra placement=Lowered"	بَ بَ بَ بَ	
		2=Raised	بَ بَ بَ بَ	
<b>Damma</b> (U+064F)	cv70	0=Standard	بُ بُ	G,O,T
		1=Filled XeTeX: "Lateef/GR:Damma=Short"	بُ بُ	
<b>Dammatan</b> (U+064C)	cv72	0=Standard	بُ بُ	G,O,T
		1=Six-nine XeTeX: "Lateef/GR:Dammatan=Six-nine"	بُ بُ	
<b>Superscript Alef</b> (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)	يَ يَ	G,O,T



Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
<b>Comma</b> (U+060C, U+061B)	cv84	0=Upward	؛ ،	G,O,T
		1=Downward XeTeX: "Lateef/GR.Comma=Downward"	؛ ﻻ	
<b>Line spacing</b>		Tight Normal Loose	Allows for adjustment of the default line spacing in the font (values shown are ordered in increasing line spacing).	T

## 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	Implementation Notes <sup>2</sup>
Default			م م م خ ف ن ن ج ب م ه هه ئ ئئ ؛،ٲٳٶٷٸٹ	G,O,T
Kurdish (Northern)	ku	Language set to Kurdish <small>XeTeX: "LateefGR.language=ku" (Graphite) XeTeX: "Lateef.language=ku" (OpenType) HTML: lang="ku"</small>	م م م خ ف ن ن ج ب م ه ههھ ئ ئئ ؛،ٴٵٶٷٸٹ	
Kyrgyz	ky	Language set to Kyrgyz <small>XeTeX: "LateefGR.language=ky" (Graphite) XeTeX: "Lateef.language=ky" (OpenType) HTML: lang="ky"</small>	م م م خ ف ن ن ج ب م ه ههہ ئ ئئ ؛،ٰٱٲٳٶٷٸ٩	
Rohingya	rhg	Language set to Rohingya <small>XeTeX: "LateefGR.language=rhg" (Graphite) XeTeX: "Lateef.language=rhg" (OpenType) HTML: lang="rhg"</small>	م م م خ ف ن ن ج ب م ه ههہ ئ ئئ ؛،ٲٳٶٷٸ٩ٺٽ	
Sindhi	sd	Language set to Sindhi <small>XeTeX: "LateefGR.language=sd" (Graphite) XeTeX: "Lateef.language=sd" (OpenType) HTML: lang="sd"</small>	م م م م ر ف ن ن ن ب م م ہ ہہہ ئ ئئ ؛،ٲٳٶٷٸ٩ٺٽ	
Urdu	ur	Language set to Urdu <small>XeTeX: "LateefGR.language=ur" (Graphite) XeTeX: "Lateef.language=ur" (OpenType) HTML: lang="ur"</small>	م م م خ ف ن ن ج ب م ه ههہ ئ ئئ ؛،ٲٳٶٷٸ٩ٺٽ	

## Special rules for rendering Allah

In certain types of literature, the name *Allah* and words related to this name are given unique rendering. Unicode has a *presentation form* character (U+FDFA ARABIC LIGATURE ALLAH ISOLATED FORM) that implements this rendering and, while this can work (in some fonts) for the word in isolation, it doesn't help users obtain special rendering in other contexts where it is desired.

Starting with v2.200, Lateef provides the special rendering for sequences of Arabic letters that meet specific patterns, giving much more flexibility to document authors. To obtain the special rendering, all of the following must be true:

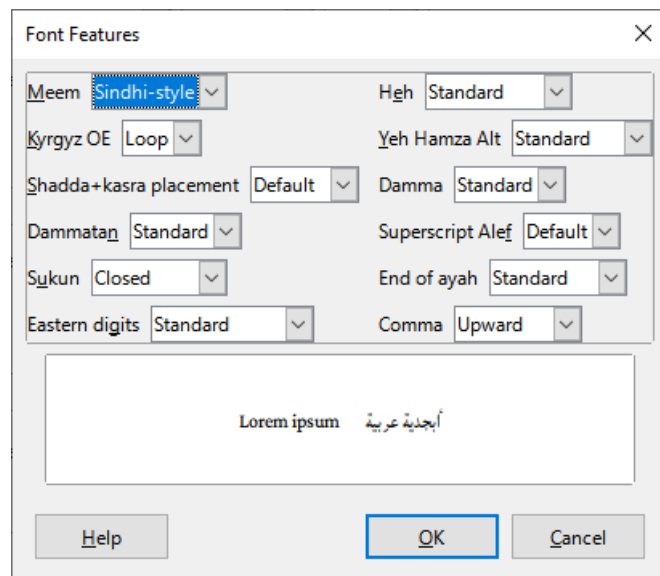
- The basic sequence of letters is either:
  - lam-lam-heh
    - Preceded by some Arabic letter (joining or not, with or without diacritic marks)
    - The second lam *must* be followed (in either order) by shadda and either superscript alef or fatha
  - alef-lam-lam-heh
    - alef is the *isolate* form (with or without diacritic marks)
    - The second lam *may* be followed (in either order) by shadda and either superscript alef or fatha
- The heh used is the *final* form of either *heh goal* (U+06C1 ٲ) final OR *heh* (U+0647 ٥) final
- There are no diacritic marks between the two *lam* characters

FEH	ALEF	LAM	LA M	SHADD A	FATH A	SUPERSCRIP T ALEF	HEH	
		+	ل	+	ل	+	٥ →	الله Ligature is formed (U+0647)
		+	ل	+	ل	+	٥ →	الله Ligature is formed (U+06C1)
		+	ل	+	ل	+	ّ + َ +	الله Ligature is formed
		+	ل	+	ل	+	ّ + َ +	الله Ligature is formed
ف	+		ل	+	ل	+	ّ + َ +	فالله Ligature is formed
ف	+		ل	+	ل	+	٥ →	فالله Ligature is not formed

Users may find these rules cause the special rendering when it is not desired. The rendering can be suppressed by inserting U+200D ZERO WIDTH JOINER after either *lam*.

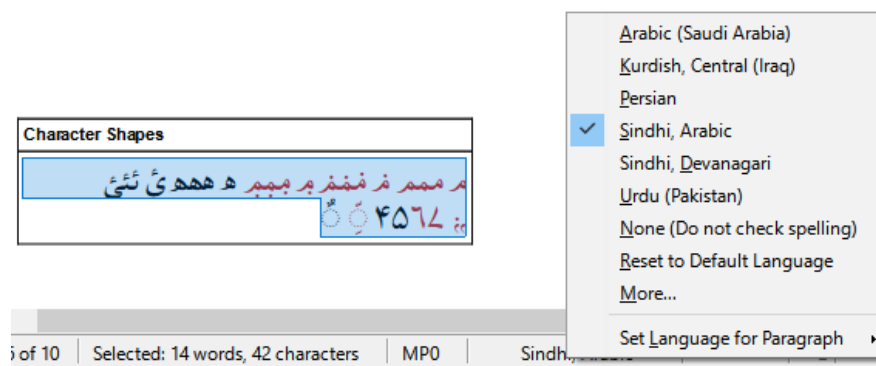






LibreOffice allows the user to select languages (or even add a language); the default glyphs will change based on the language preferences. Currently LibreOffice allow for the selection of Kurdish, Sindhi, and Urdu. If an application allows you to select any of the languages, the default glyphs will 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: مر ممر نر فمفمر بر مېمېر (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<sup>4</sup>, 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 cy32, 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;
}

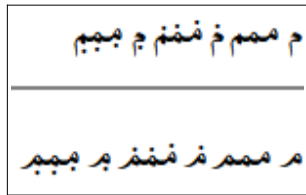
..

```

and this in your .html:

<p class=cv440>م م م م م ف ف ف م م م</cv440></p>  
<p class=cv441>م م م م م ف ف ف م م م</cv41></p>

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>.