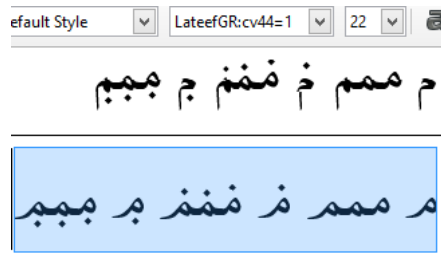


## Font Features for Lateef

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.

In LibreOffice 3.4.2+ (<http://www.libreoffice.org/download/>) the features are available only when Graphite rendering is enabled (the default). Features can be turned on by choosing the font (i.e., Lateef), followed by a colon, followed by the feature ID, and then followed by the feature setting. So, for example, if the “Sindhi-style Meem” is desired, the font selection would be “Lateef:cv44=1”.



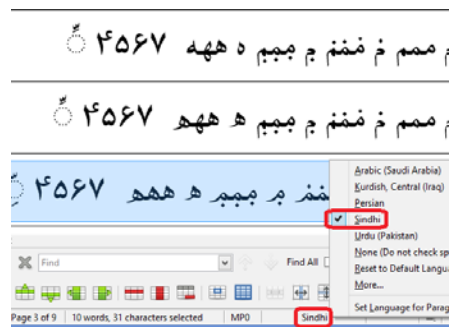
If you wish to apply two (or more) features, you can separate them with an “&”. Thus, “Lateef:cv48=3&cv44=1” would apply the “Kurdish-style Heh” plus the “Sindhi-style Meem” feature.

In Mozilla Firefox, with either Graphite or OpenType rendering, features can be accessed using the appropriate CSS markup. A description of how to use the font features in Mozilla Firefox can be found here: [http://scripts.sil.org/cms/scripts/page.php?site\\_id=projects&item\\_id=graphite\\_firefox#cf8a0574](http://scripts.sil.org/cms/scripts/page.php?site_id=projects&item_id=graphite_firefox#cf8a0574) (the technique described there works for both Graphite and OpenType).

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.

You can also apply a language-based feature which will turn on all features associated with that language. The font would be set to “Lateef” and then you need to change your language in your application. In LibreOffice you should first enable complex text layout (**Tools / Options / Language Settings / Languages** and then select **Enabled for complex text layout (CTL)**. Then, you can select your text, click on the status bar to change the language, select your language (if it is not displayed, click on “More...”). Microsoft Word 2010 also supports this feature. Before opening Word, you should go to **Start / All Programs / Microsoft Office / Microsoft Office 2010 Tools / Microsoft Office 2010 Language Preferences** and add any editing languages you want to use. However, Word 2010 does not offer Kurdish as an editing language, so the only languages you can select are Urdu or Sindhi.

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



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.


The following font features are available in Lateef:

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation_ Notes <sup>1</sup>
<b>Language</b>			م مەم ڤ نەنە ڤ مەبە ه ههه ٲٲٲٲ	G,O,T
Kurdish (Northern)	kmr	Language set to Kurdish XeTeX: "LateefGR/GR:language=kmr" (Graphite) XeTeX: "LateefGR:language=kmr" (OpenType) HTML: lang="kmr"	م مەم ڤ نەنە ڤ مەبە ه ههه ٲٲٲٲ	
Sindhi	sd	Language set to Sindhi XeTeX: "LateefGR/GR:language=sd" (Graphite) XeTeX: "LateefGR:language=sd" (OpenType) HTML: lang="sd"	م مەم ڤ نەنە ڤ مەبە ه ههه ٲٲٲٲ	
Urdu	ur	Language set to Urdu XeTeX: "LateefGR/GR:language=ur" (Graphite) XeTeX: "LateefGR:language=ur" (OpenType) HTML: lang="ur"	م مەم ڤ نەنە ڤ مەبە ه ههه ٲٲٲٲ	
<b>Meem</b> (U+0645, U+0765, U+0766)	cv44	0=Standard	م مەم ڤ نەنە ڤ مەبە	G,O,T
		1=Sindhi-style XeTeX: "LateefGR/GR:Meem=Sindhi-style"	م مەم ڤ نەنە ڤ مەبە	
<b>Heh</b> (U+0647)	cv48	0=Standard	ه ههه	G,O,T
		3=Kurdish-style XeTeX: "LateefGR/GR:Heh=Kurdish-style"	ه ههه	
		1=Sindhi-style XeTeX: "LateefGR/GR:Heh=Sindhi-style"	ه ههه	
		2=Urdu-style XeTeX: "LateefGR/GR:Heh=Urdu-style"	ه ههه	
<b>Arabic U</b> (U+0677, U+06C7)	cv50	0=Standard	و و	G,O,T

<sup>1</sup> **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
		1=Filled XeTeX: "LateefGR/GR:Arabic U=Filled"	وُ وُ	
<b>Shadda+kasra placement</b> (U+064D, U+0650 with U+0651)	cv62	0=Raised	بُ بُ بُ بُ	G,O,T
		1=Lowered XeTeX: "LateefGR/GR:Shadda+kasra placement=Lowered"	بُ بُ بُ بُ	
<b>Damma</b> (U+064F)	cv70	0=Standard	بُ بُ	G,O,T
		1=Filled XeTeX: "LateefGR/GR:Damma=Short"	بُ بُ	
<b>Dammatan</b> (U+064C)	cv72	0=Standard	بُ بُ	G,O,T
		1=Six-nine XeTeX: "LateefGR/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+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)	cv76	0=Small	ءُ ءُ ءُ ءُ ءُ ءُ ءُ ءُ اُ اُ اُ اُ اُ اُ اُ اُ ضُ ضُ ضُ ضُ ضُ ضُ ضُ ضُ بُ بُ بُ بُ بُ بُ بُ بُ شُ شُ شُ شُ شُ شُ شُ شُ	G,O,T



Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation_ Notes
		2=Urdu-style XeTeX: "LateefGR/GR:Eastern digits=Urdu-style"	۳۵۶۷	
<b>Comma</b> (U+060C, U+061B)	cv84	0=Upward	؛ ،	G,O,T
		1=Downward XeTeX: "LateefGR/GR:Comma=Downward"	؛ ،	
<b>Jeh hack</b> (U+0698)	cv90	0=Standard	ث	G,O,T
		1=Dot Hat XeTeX: "LateefGR/GR:Jeh hack=Dot Hat"	ث <sup>۲</sup>	
<b>Dotless head of khah hack</b> (U+06E1)	cv92	0=Standard	ب̣ ب̣	G,O,T
		1=Jazm XeTeX: "LateefGR/GR:Dotless head of khah hack=Jazm"	ب̣ ب̣	
<b>Line spacing</b>		Tight 1.0 Compatible Normal Loose	Allows for adjustment of the default line spacing in the font (values shown are ordered in increasing line spacing).	T
<b>Show invisible characters</b> (U+061C, U+200C, U+200D, U+200E, U+200F, U+202A, U+202B, U+202C, U+202D, U+202E, U+2066, U+2067, U+2068, U+2069, U+206C, U+206D)	invs	0=False		G
		1=True XeTeX: "LateefGR/GR:Show invisible characters=True"	<div> <div>PDI</div> <div>FSI</div> <div>RLI</div> <div>LRI</div> <div>  </div> <div>ALM</div> </div>	

<sup>2</sup> This character has been accepted into the Unicode Standard version 7.0 at U+08B2. It is encoded in LateefGR. However, since the character will not render properly in OpenType until it is implemented into various applications, we have retained the "hack" that was in the previous version of this font.

<sup>3</sup> This character has been accepted into the Unicode Standard version 7.0 at U+08FF. It is encoded in LateefGR. However, since the character will not render properly in OpenType until it is implemented into various applications, we have retained the "hack" that was in the previous version of this font.

## Language specific features

Behavior	default	Kurdish	Sindhi	Urdu
shadda+kasra	ّٰ	ّٰ	ّٰ	ّٰ
U+0645 meem shaping	م مم	م مم	م مم	م مم
U+0647 heh shaping	ه هه	ه هه	ه هه	ه هه
Digits: Eastern (U+06F4..U+06F7)	٢٥٦٧	٢٥٦٧	٢٥٦٧	٣٥٦٧

## Language specific features

Behavior	default	Kurdish	Sindhi	Urdu
shadda+kasra	بّ	بّ	بّ	بّ
U+0645 meem shaping	م مم	م مم	م مم	م مم
U+0647 heh shaping	ه هه	ه هه	ه هه	ه هه
Digits: Eastern (U+06F4..U+06F7)	٢٥٦٧	٢٥٦٧	٢٥٦٧	٢٥٦٧