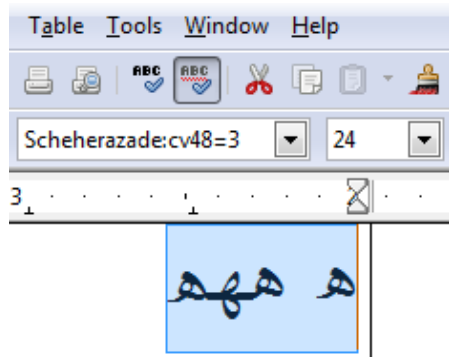


## Font Features for Scheherazade

When Scheherazade is used in applications that support Graphite or OpenType, 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 Graphite font features can be turned on by choosing the font (ie Scheherazade), followed by a colon, followed by the feature ID, and then followed by the feature setting. So, for example, if the “Kurdish-style Heh” is desired, the font selection would be “Scheherazade:cv48=3”.

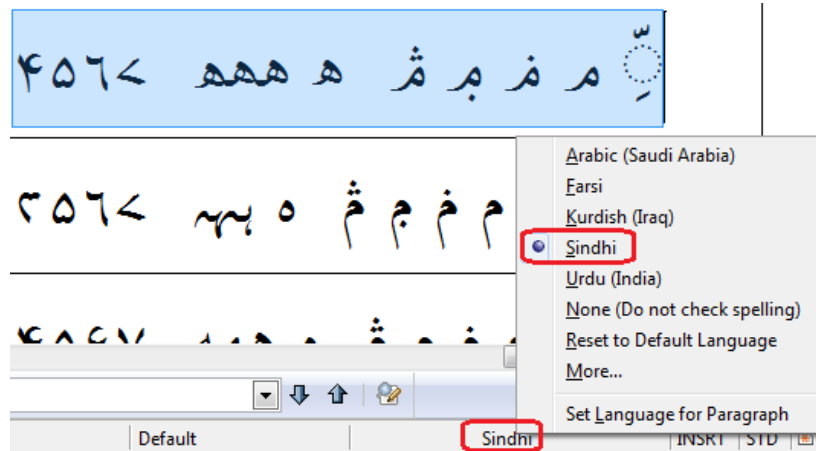


If you wish to apply two (or more) features, you can separate them with an “&”. Thus, “Scheherazade:cv48=3&cv44=1” would apply the “Kurdish-style Heh” plus the “Sindhi-style Meem” feature.

Character variants can be used in Mozilla Firefox. A description of how to use the Graphite 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)

You can also apply a language-based feature which will turn on all features associated with that language. The font would be set to “Scheherazade” 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 Scheherazade:

[illegible]

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	Example	TypeTuner Notes
<b>Heh</b> (U+0647)	cv48	0=Standard	ه هه	G,O,T
		3=Kurdish-style XeTeX: "Scheherazade/GR:Heh=Kurdish-style"	ه ههم	
		1=Sindhi-style XeTeX: "Scheherazade/GR:Heh=Sindhi-style"	ه همھ	
		2=Urdu-style XeTeX: "Scheherazade/GR:Heh=Urdu-style"	ه ہہ	
<b>Arabic U</b> (U+0677, U+06C7)	cv50	0=Standard	ؤ وُ	G,O,T
		1=Filled	ؤ وُ	
<b>Maddah</b> (U+0622, U+0627+U+0653, U+0653)	cv60	0=Small	آ آ	G <sup>2</sup> ,O,T
		1=Large	آ آ	
<b>Shadda+kasra placement</b> (U+064D, U+0650 with U+0651)	cv62	0=Raised	ٲ ٲ ٲ ٲ	G,O,T <sup>3</sup>
		1=Lowered	ٲ ٲ ٲ ٲ	

2 There is currently a bug in the Graphite integration in Firefox which throws the rendering off.

3 There is currently a bug in Firefox (both OpenType and Graphite) which throws the rendering off.

Feature Name	Feature ID	Feature Setting	Example	TypeTuner Notes
<b>Damma</b> (U+064F)	cv70	0=Standard	اُ بْ	G,O,T
		1=Filled	اُ بْ	
		2=Short	اُ بْ	
<b>Dammatan</b> (U+064C)	cv72	0=Standard	اُ بْ	G,O,T <sup>4</sup>
		1=Six-nine	اُ بْ	
<b>Inverted Damma</b> (U+0657)	cv74	0=Standard	اُ بْ	G,O,T
		1=Hollow	اُ بْ	

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4 There is currently a problem in the Graphite integration in Firefox and in Uniscribe applications when an above mark is *followed* by a shadda. The rendering is not optimal.

Feature Name	Feature ID	Feature Setting	Example	TypeTuner Notes
<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=Small	ؤ ئؤ ى لى ي يى ئ ئى ې بې ى پې ى پې ى ئؤ ى يى ى نى ى ئى ى تى ى ئى ى يى ى ئى ى ئى ى ئى ى ص ص ص ص ض ض ض ص ص ص ض ض ض ض ض ض ص ص ص ص ص س س س س ش ش ش ب ب ب ب ب ب پ پ پ پ پ ش	G,O,T
		1=Large	ؤ ئؤ ى لى ي يى ئ ئى ې بې ى پې ى پې ى ئؤ ى يى ى نى ى ئى ى تى ى ئى ى يى ى ئى ى ئى ى ئى ى ص ص ص ص ض ض ض ص ص ص ض ض ض ض ض ض ص ص ص ص ص س س س س ش ش ش ب ب ب ب ب ب پ پ پ پ پ ش	

Feature Name	Feature ID	Feature Setting	Example	TypeTuner Notes
<b>Sukun</b> (U+0652)	cv78	0=Closed	◌ْ ◌ُ	G,O,T
		1=Open down	◌̣ ◌̤	
		2=Open left	◌̡ ◌̢	
<b>End of ayah</b> (U+06DD)	cv80	0=Standard	﴿ 321 ﴾	G,O,T
		1=Simplified A	Ⓐ 321	
		2=Simplified B	Ⓑ 321	
<b>Eastern digits</b> (U+06F4, U+06F6, U+06F7)	cv82	0=Standard	۴۵۶۷	G,O,T
		1=Sindhi-style	۴۵۶<	
		2=Urdu-style	۴۵۶<	
		4=Rohingya-style	۴۵۶<	

Feature Name	Feature ID	Feature Setting	Example	TypeTuner Notes
<b>Comma</b> (U+060C, U+061B)	cv84	0=Upward	ﻍ ﻏ	G,O,T
		1=Downward	ﻏ ﻍ	
<b>Jeh hack</b> (U+0698)	cv90	0=Standard	ﺝ	G,O,T
		1=Dot Hat	ﻝﻩ	
<b>Dotless head of khah hack</b> (U+06E1)	cv92	0=Standard	ﻝ ﺏ	G,O,T
		1=Jazm	ﻝ ﺏ	
<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>Mirroring for Graphite 1</b> (U+0028, U+0029, U+003C, U+003E, U+005B, U+005D, U+007B, U+007D, U+00AB, U+00BB, U+2039, U+203A, U+221A)		Off/On	√ < > « » {} [] < > ()	G

- 5 This character has been accepted into the Unicode Standard at U+08B2. It is encoded in Scheherazade at the proper position (although the codepoint could change). However, since the character will not render properly in Uniscribe until it is official and implemented into various applications, we have retained the "hack" that was in the previous version of this font.
- 6 This character has been accepted into the Unicode Standard at U+08FF. It is encoded in Scheherazade at the proper position (although the codepoint could change). However, since the character will not render properly in Uniscribe until it is official and implemented into various applications, we have retained the "hack" that was in the previous version of this font.