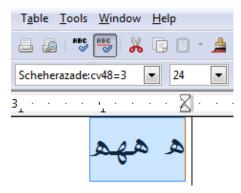
## Font Features for Scheherazade

The Scheherazade 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+ (<a href="http://www.libreoffice.org/download/">http://www.libreoffice.org/download/</a>) or OpenOffice 3.2+ (<a href="http://www.openoffice.org/download/">http://www.openoffice.org/download/</a>) the features are available only when Graphite rendering is enabled (the default). Features can be turned on by choosing the font (i.e., 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.

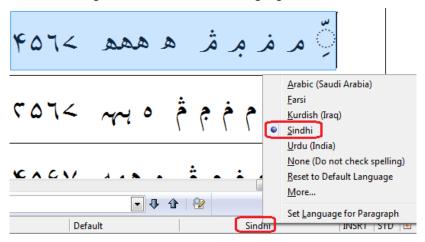
In Mozilla Firefox, with either Graphite or OpenType rendering, features can be accessed using the appropriate CSS markup. A description of how to use the font features in Mozilla Firefox can be found here: <a href="http://scripts.sil.org/cms/scripts/page.php?site\_id=projects&item\_id=graphite\_firefox#cf8a0574">http://scripts.sil.org/cms/scripts/page.php?site\_id=projects&item\_id=graphite\_firefox#cf8a0574</a> (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: <a href="http://scripts.sil.org/TypeTuner">http://scripts.sil.org/TypeTuner</a> and web-based version: <a href="http://scripts.sil.org/ttw">http://scripts.sil.org/ttw</a>) 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 "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: <a href="http://scripts.sil.org/TypeTuner">http://scripts.sil.org/TypeTuner</a> and web-based version: <a href="http://scripts.sil.org/typeTuner">http://script

The following font features are available in Scheherazade:

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes <sup>1</sup>
Language			م ممم م منم م ممم م مثم ه ههه ۴۵۶۷ ی	G,O,T
Kurdish (Northern)	kmr	Language set to Kurdish  XeTeX: "Scheherazade/GR:language=kmr"	م ممم خ منه ج مجمع څ ششم ه ههه ۲۵۶۷ ت	
Sindhi	snd	Language set to Sindhi XeTeX: "Scheherazade/GR:language=snd"	م ممم فر فنفر ۾ مجم ۾ شقر ه ههه ١٩٦٧ قِ	
Urdu	urd	Language set to Urdu  XeTeX: "Scheherazade/GR:language=urd"	م ممم خ ففنم ج مِمِم خ فقم ه بهر ١٥٦٥ قِ	
Rohingya	rhg	Language set to Rohingya  XeTeX: "Scheherazade/GR:language=rhg"	ో ్రంగా	G,T
Dal (U+062F, U+0630, U+0688, U+0689, U+068A, U+068B, U+068C, U+068D, U+068E, U+068F, U+0690, U+06EE, U+0759, U+075A, U+08AE)	cv12	0=Standard	د ذ د ډ ډ د د د د د د د د د د د د د د د	G,O,T
		1=Alternate  XeTeX: "Scheherazade/GR:Dal=Alternate"	د ذ ځ ډ ځ څ څ څ څ ځ چ چ	
<b>Meem</b> (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard	م ممم م فمنم م ممم م ممم م	G,O,T
		1=Sindhi-style  XeTeX: "Scheherazade/GR:Meem=Sindhi-style"	م ممم فر فنفف م مجمم فر فثقف	

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

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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: "Scheherazade/GR:Heh=Kurdish-style"	a aga	
		1=Sindhi-style XeTeX: "Scheherazade/GR:Heh=Sindhi-style"	ه ههم	
		2=Urdu-style XeTeX: "Scheherazade/GR:Heh=Urdu-style"	ه پهم	
<b>Arabic U</b> (U+0677, U+06C7)	cv50	0=Standard	ۇ ۋ	G,O,T
		1=Filled	ۇ ۋ	
<b>Maddah</b> (U+0622, U+0627+U+0653, U+0653)	cv60	0=Small	<u></u>	G,O,T
		1=Large	៑៶៑	
Shadda+kasra placement (U+064D, U+0650 with U+0651)	cv62	0=Raised	ٿِ ٿِ ٿِ	G,O,T
		1=Lowered XeTeX: "Scheherazade/GR:Shadda+kasra placement=Lowered"	ٿِ ٿِ ٿِ	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
<b>Damma</b> (U+064F)	cv70	0=Standard	<b>ِث</b> بُ	G,O,T
		1=Filled XeTeX: "Scheherazade/GR:Damma=Short"	ِ بُ	
		2=Short XeTeX: "Scheherazade/GR:Damma=Filled"	<u>ث</u> بُ	
Dammatan (U+064C)	cv72	0=Standard	بْ ٿ	G,O,T
		1=Six-nine XeTeX: "Scheherazade/GR:Dammatan=Six-nine"	ీ చ్	
Inverted Damma (U+0657)	cv74	0=Standard	بُ ث	G,O,T
		1=Hollow XeTeX: "Scheherazade/GR:Inverted Damma=Hollow"	؛ ث	
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	cv76	0=Small	ئ ئلئ ى للى ي للي ئ ئلئ ې ئلئ ې للې ي للي ي للي ئ ئلئي يٰ لليٰ يُ لليٰ يُ يَلِيٰ	G,O,T
,			عُ يُئِي يَ يُنِي يَ يُنِي مَ يُنْفِي عَ يَتَى عَ يَتَى عَ يَلِي عَ يَنْفِي عَ يَنْفِي عَ يَنْفِي عَ لَيْنِي عَ لَيْنِي عَلَم لِنَيْ عَلَم لِنَا لِنَيْ عَلَم لِنَا لِنَيْ عَلَم لِنَا لِنَيْ عَلَم طلص طلص طلط طلطن على عَلَم الله عَل	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
			ص الشفاط من المنظم الله الله الله الله الله الله الله الل	
			ششش بن بنابن پل بلیلیل ش شهشش بن شهشش	
			شل شلشلشل شل شلششل شل شلطالش مل ملكلكل مل	
			شطش	
		1=Large XeTeX: "Scheherazade/GR:Superscript Alef=Large"	ئ ئلئ ي للي ي لليلي ئ ئلئ ي إليلي ي لليلي ي لليلي ي لليلي	
			يُ لِئِي يَ لِنِي يُ لِيُلِي عَالِمُ عَالِي عَالِمُ عَالِمًا عَالِمًا عَالِمًا عَالِمًا عَالِمًا عَا	
			يَ لَيْنَ يَ لَيْنَ صل صلصل ضل ضضضل صل عليصل	
			صل طفط مل بلط بلط على على الله على الله الله الله الله الله الله الله ال	
			شششل بنل بنالبنل بيل بلللله بن الله الله الله الله الله الله الله الل	
			شل شاستاس شل شاستاس شل شاستاس مل ماساسل مل	
			شممل	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes	
<b>Sukun</b> (U+0652)	cv78	0=Closed	ံ	G,O,T	
		1=Open down XeTeX: "Scheherazade/GR:Sukun=Open down"	ث ث		
		2=Open left XeTeX: "Scheherazade/GR:Sukun=Open left"	َ بْ		
End of ayah (U+06DD)	cv80	0=Standard	(123)	G,O,T	
			1=Simplified A  XeTeX: "Scheherazade/GR:End of ayah=Simplified A"	(123)	
		2=Simplified B XeTeX: "Scheherazade/GR:End of ayah=Simplified B"	[123]		
Eastern digits (U+06F4, U+06F6, U+06F7)	cv82	0=Standard	4097	G,O,T	
		1=Sindhi-style XeTeX: "Scheherazade/GR:Eastern digits=Sindhi- style"	407<		
		2=Urdu-style XeTeX: "Scheherazade/GR:Eastern digits=Urdu- style"	r07<		
		4=Rohingya-style XeTeX: "Scheherazade/GR:Eastern digits=Rohingya-style"	2074		

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	٤ ،	G,O,T
		1=Downward XeTeX: "Scheherazade/GR:Comma=Downward"	; ;	
Jeh hack (U+0698)	cv90	0=Standard	ָּרָ ݑ	G,O,T
		1=Dot Hat  XeTeX: "Scheherazade/GR:Jeh hack=Dot Hat"	² ĵ	
Dotless head of khah hack (U+06E1)	cv92	0=Standard	بْ أ	G,O,T
		1=Jazm XeTeX: "Scheherazade/GR:Dotless head of khah hack=Jazm"	ئ <sup>3</sup> ئ	
Line spacing		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).	Т

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.

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.

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Show invisible characters (U+061C, U+200C, U+200D, U+200E, U+200F, U+202B, U+202C, U+202D, U+202E, U+2066, U+2067, U+2068, U+2068, U+2067, U+2068, U+2068, U+2067, U+2068, U+2	invs	0=False		G
U+2068, U+2069, U+206C, U+206D)		1=True XeTeX: "Scheherazade/GR:Show invisible characters=True*	POT F5T R.T LRT T [] [ T ALM	