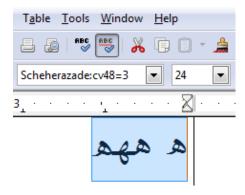
Font Features for Scheherazade

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+ (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., 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: 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 "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.



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The following font features are available in Scheherazade:

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes ¹
Language			م ممم م منه ج مجمع م مشم ه ههه ۲۵۶۷ ت	G,O,T
Kurdish (Northern)	kmr	Language set to Kurdish XeTeX: "Scheherazade/GR:language=kmr" (Graphite) XeTeX: "Scheherazade:language=kmr" (OpenType) HTML: lang="kmr"	م ممم م منم م ممم م مثم ه ههه ۲۵۶۷ ق	
Sindhi	sd	Language set to Sindhi XeTeX: "Scheherazade/GR:language=sd" (Graphite) XeTeX: "Scheherazade:language=sd" (OpenType) HTML: lang="sd"	م ممم فر منفف ۾ مجم ۾ شقف ه ههه ١٩٦٧ قِ	
Urdu	ur	Language set to Urdu XeTeX: "Scheherazade/GR:language=ur" (Graphite) XeTeX: "Scheherazade:language=ur" (OpenType) HTML: lang="ur"	م ممم خ ففنم ج جمع خ ففش ه بهم ١٥٦٧ قِ	
Rohingya	rhg	Language set to Rohingya XeTeX: "Scheherazade/GR:language=rhg" (Graphite) XeTeX: "Scheherazade:language=rhg" (OpenType) HTML: lang="rhg"	ో ్ కదా<	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 ځ ډ	G,O,T
		1=Alternate XeTeX: "Scheherazade/GR:Dal=Alternate"	८ ۮ ۮؙ ६ ६ ڋ ڎ ڍ ڎ ۮٞ ۮٞ ۮٞ ڋ ڿ ڿ	
Meem (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard	م ممم م مفنم م ممم م ممم م	G,O,T
		1=Sindhi-style XeTeX: "Scheherazade/GR:Meem=Sindhi-style"	م ممم فر ففف م مجم فر فقف	

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/TypeTuner and web-based 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
Heh (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 ههه	
		2=Urdu-style XeTeX: "Scheherazade/GR:Heh=Urdu-style"	ه پهم	
Arabic U (U+0677, U+06C7)	cv50	0=Standard	ۇ ۋ	G,O,T
		1=Filled XeTeX: "Scheherazade/GR:Arabic U=Filled"	<i>ĝ ĝ</i>	
Maddah (U+0622, U+0627+U+0653, U+0653)	cv60	0=Small	<u></u> 5 T T	G,O,T
		1=Large XeTeX: "Scheherazade/GR:Maddah=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"	្ខ័ ភ្នំ ភ្នំ	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Damma (U+064F)	cv70	0=Standard	ِث بُ	G,O,T
		1=Filled XeTeX: "Scheherazade/GR:Damma=Short"	<u>ث</u> بْ	
		2=Short XeTeX: "Scheherazade/GR:Damma=Filled"	ဴ -	
Dammatan (U+064C)	cv72	0=Standard	بْ ٿ	G,O,T
		1=Six-nine XeTeX: "Scheherazade/GR:Dammatan=Six-nine"	ో చ్ర	
Inverted Damma (U+0657)	cv74	0=Standard	ب	G,O,T
		1=Hollow XeTeX: "Scheherazade/GR:Inverted Damma=Hollow"	؛ ٠	
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=Small	ئ نئئ ی للی ی لیای ی نیای ی نئی کا نائی ی البی ی لیای ی لیای ی لیای ی لیای ی لیای ی نیای یا نیای ی نیای یا نیای ی	G,O,T
			یٰ لٰلیٰ یٰ لٰلیٰ صل صلص صل طلط علی علی اللیٰ کا لٰلیٰ کا لٰلیٰ کا لٰلیٰ کا لٰلیٰ کا لٰلیٰ کا	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
			صل طفط صل جل جلط جل چل چلچل سل سلسل شل	
			ششش بن بنابنا بن پلینیل پل پلینیل بن بنابنا بن بنابنا	
			ش شاستاس ش شاستان ش شاستان ش ماستاس ش	
			هلطهل	
		1=Large XeTeX: "Scheherazade/GR:Superscript Alef=Large"	ئ ئنځ ک للی کي ليلي ځ ئنځ کې بېلې کي لپلي کې لېلي	
			ئِ يُئِي يَ نَيْنِي مَ لَيُمْ يَ يُلِي عَلَى اللَّهِ عَلَى اللَّهِ عَلَى اللَّهِ عَلَى اللَّهِ عَلَى اللَّهِ ع	
			ي للي على اللي على الله على الله على على الله عل	
			صل طفط مل خلط مل على الله على الله الله الله الله الله الله الله ال	
			شششل بنل بنالبنل سل سلسلسل شل شلششل شل ششششل	
			شل شلستاس شل شلستاس شل شاستاس مل ساستاس شل شاستاس شل	
			شطهل	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Sukun (U+0652)	cv78	0=Closed	్ చ్ర	G,O,T
		1=Open down XeTeX: "Scheherazade/GR:Sukun=Open down"	<u></u> ث	
		2=Open left XeTeX: "Scheherazade/GR:Sukun=Open left"	ئ ث	
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"	207<	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Comma (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	ژ	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 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 version 7.0 at U+08B2. It is encoded in Scheherazade. 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.

This character has been accepted into the Unicode Standard version 7.0 at U+08FF. It is encoded in Scheherazade. 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.

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+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: "Scheherazade/GR:Show invisible characters=True"	POI FSI RI IRI T	

Language specific features

Behavior shadda+kasra	default ్	Kurdish ්්	Rohingya ៉ី	Sindhi ౢఀ	Urdu ౢఀ
U+0645 meem shaping					
	م ممم	م ممم	م ممم	م ممم	م ممم
U+0647 heh shaping					
	ه ههه	a aga	ه ههه	ه ههه	مهر ٥
Digits: Eastern (U+06F4U+06F7)	4097	4097	2074	4074	m074