Scheherazade New - Font Features

Scheherazade New is a TrueType font with smart font capabilities added using OpenType and Graphite font technologies. The Scheherazade New font includes a number of optional features that provide alternative rendering that might be preferable for use in some contexts. The sections 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. Some applications let the user control certain features such as Character Variants to turn on the rendering of variant characters. However, at this point, most applications do not make use of those features so another solution is needed to show the variant characters. TypeTuner creates tuned fonts that use the variant glyph in place of the standard glyph. TypeTuner also provides the ability to turn on support for the Kurdish, Kyrgyz, Rohingya, Sindhi, Urdu, and Wolof languages variants.

See Using Font Features. Although that page is not targeted at Arabic script support, it does provide a comprehensive list of applications that make full use of the OpenType and Graphite font technologies.

See also Arabic Fonts — Application Support. It provides a fairly comprehensive list of applications that make full use of the OpenType and Graphite font technologies.

This page uses web fonts (WOFF) to demonstrate font features and should display correctly in all modern browsers. For a more concise example of how to use Scheherazade New as a web font see *ScheherazadeNew-webfont-example.html* in the font package web folder.

If this document is not displaying correctly a PDF version is also provided in the documentation/pdf folder of the release package.

End of Ayah (U+06DD), Disputed End of Ayah (U+08E2), and subtending marks (U+0600..U+0605)

These Arabic characters are intended to enclose or hold one or more digits.

Specific technical details of how to use them are discussed in the Arabic fonts FAQ -- Subtending marks.

Additionally, Scheherazade New includes two simplified alternates for U+06DD ARABIC END OF AYAH under the Stylistic Alternates (salt) feature, but at this time we know of no OpenType-based applications that can access these. The two alternates are also available through the Character Variants feature discussed below.

Customizing with TypeTuner

For applications that do not make use of Graphite features or the OpenType Character Variants, you can now download fonts customized with the variant glyphs you choose. Read this document, visit TypeTuner Web, then choose the variants and download your font.

Test rendering engine choice

Here is a simple test to see if Graphite is working in your browser. If it is, the following will say "RenderingGraphite". If your browser does not support Graphite it should say "RenderingOpentype". Firefox is currently the only browser that supports Graphite. See the instructions on how to enable Graphite in Firefox.

Language

Affects: U+062F, U+0630, U+0688..U+068F, U+0690, U+06EE, U+0759, U+075A, U+08AE, U+0645, U+0765, U+0766, U+08A7, U+0647, U+0626, U+060C, U+061B, U+06F4, U+06F5, U+06F6, U+06F7, U+0650, U+064F, U+0657

Unfortunately, the UI needed to access the language-specific behavior is not yet present in many applications. LibreOffice and Microsoft Word 2016 support language-specific behavior for Kurdish, Sindhi and Urdu (but not Kyrgyz, Rohingya or Wolof). Some Harfbuzz-based apps, e.g., XeTeX, can access language-specific behavior.

Kurdish (Northern), Rohingya, Sindhi, Urdu

Language	Meem	Heh	Comma	4	6	7	0650	064C	Feature Setting
default	م ممم	ه ههه	٤.	۴	۶	٧	بِّ	بْ	
Kurdish (Northern)	مممم	ه ههم	٤ ،	۴	۶	٧	بِّ	بٌ	lang='ku'
Rohingya	م ممم	ه ههه	٤.	٤	٦	4	بِّ	بٌ	lang='rhg'
Sindhi	م ممم	ه ههه	, ;	۴	٦	4	بِّ	بْ	lang='sd'
Urdu	م ممم	ه ههه	٤ ،	٣	٦	4	ٿِ	بعث	lang='ur'

Kyrgyz and Wolof

Language	Dal	0626	0650	064F	0657	Feature Setting
default	د	ئ ئئئ	بِّ	بُ	ڹ	
Kyrgyz	د	ئى ئئئى	بِّ	بُ	ڹ	lang='ky'
Wolof	۶	ئ ئئئ	بِ	بُ	ب	lang='wo'

Character variants

There are some character shape differences in different languages which use the Arabic script. These can be accessed by using Graphite features, OpenType Character Variants, or through the language support mentioned above.

Dal

Affects: 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

Feature value	Sample	Feature setting
Standard	د ذ ځ ډ ب ځ ت ي څ ڏ څ څ	cv12=0
Alternate	ۮۮۮ۠ۮڋڋڐڎڎ۠ۮٞڋۮڋڿ	cv12=1

Meem

Affects: U+0645, U+0765, U+0766, U+08A7

Feature value	Sample	Feature setting
Standard	م ممم م ممنم م ممم م ممم	cv44=0

Heh

Affects: U+0647

Feature value	Sample	Feature setting
Standard	aga o cv48=0	
Kurdish-style	ده هه د cv48=3	
Sindhi-style	cv48=1 ه ههه	
Urdu-style	م ہم ٥ cv48=2	

Kirghiz OE

Affects: U+06C5

Feature value	Sample	Feature setting
Loop	و	cv51=0
Bar	و	cv51=1

Yeh Hamza

Affects: U+0626

Feature value	Sample	Feature setting
Standard	c ئ ئ	:v54=0
Right hamza	c ئى ئى	cv54=1

Maddah

Affects: U+0622, U+0627, U+0653, U+0653

Feature value	Sample	Feature setting
Small	う「T cv60=0	
Large	៊ី	

Shadda+kasra placement

Affects: U+064D, U+0650 with U+0651

	Feature value	Sample	Feature setting
Raised		بِّ ٞ بِّ	cv62=0

Feature value Lowered	Sample ڀِّ ٻِّ دِve	
Damma		
Affects: U+064F		
Feature value	Sample	Feature setting
Standard	<i>်ံ</i> • cv70=0	
Filled	ُ ئِ cv70=1	
Short	<i>် •ံ</i> cv70=2	
Dammatan		
Affects: U+064C		
Feature value	Sample	Feature setting
Standard	ో <i>ా</i> cv72=0	
Six-nine	ိ် <u>ဗ</u> ္ cv72=1	
Inverted Damma		
Affects: U+0657		
Feature value	Sample	Feature setting

Superscript Alef

Standard

Hollow

Affects: 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+069E U+06FB U+08AF U+0633 U+0634 U+069A U+069B U+069C U+06FA U+075C U+076D U+077D U+077D U+077E

Feature value Sample	e Feature setting
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Fe	ature value	Sample	Feature setting
Small		ئ نئن کی للی کی لیلی علی نئنی کی اللی کی	cv76=0
		ی تیمی کی تین کی تینی کی تیمی کی لیکی کی لایکی کی لیکی کی لیلی صل صلصل ضل ضضض چیل چلچسچس شل	
		طفط المسلطين على الله الله الله الله الله الله الله ال	
		بىل بىلىنىلىنى بىل بىلىلىنىلى بىلى بىلىنىشىلىنىلىنىلىنىلىنىلىنىلىنىلىنىلىنىل	
		شل ششش من ملسلس ش ملمش	
Large		ئ ئننی کی للی کی لیلی عی ئنٹی کی المالی کی لیلی کی لیلی کی ٹیٹی کی لیلی کی کی کیکی کی ٹیٹی کی ٹیٹی کی لیلی کی لیلی کی لیلی ک	cv76=1
		مینی می بینی می طبیعت من منظم میل میلمیل مثل	
		طفط خل خلط جل چل حلمار مار ملسلمار شار شاششار	
		سَلْ سَلْسَلْسِ سِلْ سِلْسِلْسِلْ شِلْ شِلْشِلْشِلْ	
		شل شششل شل شلشلشل شل شلسلسل شل شلسلسل شل شاسلا شاسلا شاسلا شاسلا شاسلان	

Sukun

Affects: U+0652

Feature value	Sample	Feature setting
Closed	<u>ိ </u>	
Open down	<i></i> ် $\hat{\varphi}$ cv78=1	
Open left	ႆ ္ cv78=2	

End of ayah

Affects: U+06DD

Firefox allows you to use U+06DD followed by the digits and proper rendering occurs. Some applications require the following:

• precede the entire sequence (subtending mark plus following digits) with 202D LEFT-TO-RIGHT OVERRIDE

• follow the entire sequence with U+202C POP DIRECTIONAL FORMATTING.

Surrounding the sequence with U+202D and U+202C seems to give the most reliable results in different browsers. However, we have not found a solution that works in Internet Explorer/Edge.

In the example below, the following codepoints are used: U+202D U+06DD U+0031 U+0032 U+0033 U+202C U+202D U+06DD U+0611 U+0622 U+0663 U+202C.

Feature value	Sample	Feature setting
Standard	(123) (17) cv80=0	
Simplified A	(123) (YT) cv80=1	
Simplified B	[123] [177] cv80=2	

The new DISPUTED END OF AYAH (U+08E2) is also now available in the font. It works in the same way as End of ayah.



Honorific ligatures

Affects: U+FD40..U+FD4F, U+FDCF, U+FDFA..U+FDFB, U+FDFD..U+FDFF

Feature value	Sample	Feature setting
Calligraphic	والله والله والله الله الله الله والله وا	cv81=0
Simplified	رِيِّمَةُ رَطَالِيَّةُ مِنَ اللَّهُ مَهِمَ اللَّهُ عُهُمَ رَاللَّهُ عُهُمَ اللَّهُ عُهُمَ اللَّهُ اللَّهُ عَلَيْهِ اللَّهُمُ عَلَيْهِمُ اللَّهُمُ عَلَيْهِمُ اللَّهُمُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُمُ عَلَيْهُمُ اللَّهُ عَلَيْهُمُ وَاللَّهُ عَلَيْهُمُ اللَّهُ عَلَيْهُمُ وَاللَّهُ عَلَيْهُمُ عَلِيهُمُ عَلِيهُمُ عَلَيْهُمُ عَلِيهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْكُمُ عَلَيْهُمُ عَلِ	cv81=1

Eastern digits

Affects: U+06F4, U+06F6, U+06F7

Feature value	Sample	Feature setting
Standard	♥ ∀ ∨ cv82=0	
Sindhi-style	₹ \ < cv82=1	
Urdu-style	~ ↑ √ √ √ √ √ √	
Rohingya-style	₹ ¼ cv82=4	

Comma

Affects: U+060C, U+061B

Foaturo valuo	Sample	Feature setting
Feature value	Sample	reature setting

Feature value	Sample	Feature setting
Upward	cv84=0	
Downward	; c cv84=1	

Decimal separator

Affects: U+066B

Feature value	Sample	Feature setting
Small reh	cv85=0 ر	
Slash	, cv85=1	

Line spacing

Allows for adjustment of the default line spacing in the font (values shown are ordered in increasing line spacing). This feature is only available with TypeTuner.

	Feature Value	
Tight		
Normal		
Loose		

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