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.

Check

RenderingGraphite

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+064C, 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	٠.	۴	۶	٧	بِّ ب	بْ	
Kurdish (Northern)	م ممم	ه ههم	٤ ،	۴	۶	٧	سِّ ب	بٌ	lang='ku'
Rohingya	م ممم	ه ههه	٤ ،	٤	٦	4	بِّ	بٌ	lang='rhg'
Sindhi	م ممم	ه ههه	; ;	۴	٦	4	بِ	بْ	lang='sd'
Urdu	م ممم	ه ههه	٤،	٣	٦	4	بِّ	بٌ	lang='ur'

Kyrgyz and Wolof

Language	Dal	0626	0650	064F	0657	Feature Setting
default	د	ئ ئئئ	بُ	بُ	، ب	
Kyrgyz	د	ئ ئئئ	ب ب	بُ	، ب	lang='ky'
Wolof	د	ئ ئئئ	بٌ	بُ	بْ	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	Sample	Feature setting
Standard	د ذ ځ ډ	cv12=0
Alternate	ۮۮۮؙڿڋڋڐۮڎ۠ۮٞڐۮٛڋڿڿ	cv12=1

Meem

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

Feature	Sample	Feature setting
Standard	م ممم م منم م ممم م مثم	cv44=0
Sindhi-style	م ممم فر منفف م مجم فر فثقر	cv44=1

Heh

Affects: U+0647

Feature	Sample	Feature setting
Standard	aga o	cv48=0
Kurdish-style	ه ههم	cv48=3
Sindhi-style	ه ههم	cv48=1
Urdu-style	مهر ٥	cv48=2

Kirghiz OE

Affects: U+06C5

Feature	Sample	Feature setting
Loop	g	cv51=0
Bar	9	cv51=1

Yeh Hamza

Affects: U+0626

Feature	Sample	Feature setting
Standard	ئ ئ	cv54=0
Right hamza	ئى ئى	cv54=1

Maddah

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

Feature	Sample	Feature setting
Small	্যা	cv60=0
Large	্যা	cv60=1

Shadda+kasra placement

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

Feature	Sample	Feature setting
Raised	ِ ۗ ۗ ؖ	cv62=0
Lowered	្គី ៉្គី ៉ី	cv62=1

Damma

Affects: U+064F

Feature	Sample	Feature setting
Standard	ُ بُ	cv70=0
Filled	ُ بُ	cv70=1
Short	ُ بُ	cv70=2

Dammatan

Affects: U+064C

Feature	Sample	Feature setting
Standard	ీ చ్ర	cv72=0
Six-nine	ీ లీ	cv72=1

Inverted Damma

Affects: U+0657

Feature	Sample	Feature setting
Standard	' ، 'ب	cv74=0
Hollow	်	cv74=1

Superscript Alef

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+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	Sample	Feature setting
Small	ئ نئی کی لالی کی لیلی علی الله علی الله کی کا الله کی	cv76=0
Large	ئ نلئ كى لالى كى ليلى ئى نلئى كى لالى كى للى كى لالى كى لالى كى للى كى	cv76=1

Sukun

Affects: U+0652

Feature	Sample	Feature setting
Closed	ံ ံ	cv78=0
Open down	<u></u>	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	Sample	Feature setting
Standard	(123) (117)	cv80=0
Simplified A	(123) (177)	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	Sample	Feature setting
Calligraphic	والله وليف وليف وليف وليف والله عليه عليه عليه عليه عليه المثلاث عليفه الله وليف والمنطقة المنطقة الم	cv81=0
Simplified	رَجْمَهُ وَطَلِيْتُهُ وَطَلِيْتُهُمْ وَطَيِّعُهُمْ وَطَيِّهُمُ اللَّهِ مُنَ عَلَيْهِ المَّالِمُ عَلَيْهُمُ الْعَلَيْمُ اللَّهُ وَطَلِيقُهُمُ الْعَلَيْمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيِّعُهُمُ وَطَيْعُهُمُ وَطَيْعُهُمُ عَلَيْهُمُ الْعَلَيْمُ عَلَيْهُمُ وَطَيْعُهُمُ وَلَمْ عَلَيْهُمُ وَطَيْعُهُمُ وَلَمْ عَلَوْهُمُ عَلَيْتُهُ وَسَلِيلُهُ جَلِيلُهُ بِنِـ مِلْلِمَا لِحَمْظُ وَلَمْ عَرَوْجَلَّ عَرَوْجَلًّ عَرَوْجَلًّا	cv81=1

Eastern digits

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

Feature	Sample	Feature setting
Standard	497	cv82=0
Sindhi-style	474	cv82=1
Urdu-style	r7<	cv82=2
Rohingya-style	٤٦<	cv82=4

Comma

Affects: U+060C, U+061B

Feature	Sample	Feature setting
Upward	٤ ،	cv84=0
Downward	÷÷	cv84=1

Decimal separator

Affects: U+066B

Feature	Sample	Feature setting
Small reh	ر	cv85=0
Slash	I	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		
Tight		
Normal		
Loose		

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