## **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)

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 "RenderingOpentype". Firefox is currently the only browser that supports Graphite. See the instructions on how to enable Graphite in Firefox.

### RenderingOpenType Check

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

Language

Affects: U+062F, U+0630, U+0688...U+068F, U+0690, U+068E, U+0759, U+0759, U+0759, U+0765, U+0765, U+0766, U+0647, U+06

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.

Language	Dal	Meem	Heh	Yeh with hamza	Comma	4	6	7	kasra	damma	dam matan	lnv damma	Feature setting
default	د	م ممم	ه ههه	ئ ئئئ	٤ ،	*	۶	٧	بِّ	بُ	بٌ	ب	
Kurdish (Northern)	د	م ممم	ه ههم	ئ ئئئ	٤ ،	*	۶	٧	بِّ	بُ	بُ	ڹ	lang=ku
Kyrgyz	د	م ممم	ه ههه	ئى ئىئى	٤ ،	*	۶	٧	بِّ	بُ	بٌ	ب	lang=ky
Rohingya	د	م ممم	ه ههه	ئ ئئئ	٤ ،	٤	٦	4	بِّ	بُ	بٌ	ڹ	lang=rhg
Sindhi	د	م ممم	ه ههه	ئ ئئئ	3.3	۴	٦	4	بِّ	بُ	بٌ	ڹ	lang=sd
Urdu	د	م ممم	ه ههه	ئ ئئئ	٤ ،	٣	٦	4	بِّ	بُ	بٌ	<u>ب</u>	lang=ur
Wolof	ک	م ممم	ه ههه	ئ ئئئ	٤ ،	۴	۶	٧	ٿِ	ب	بٌ	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.

## 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

Dal

Feature value Sample **Feature setting** 

Standard	cv12=0 د د ځ ډ د ځ د د څ د ځ د چ د چ د د ځ د د ځ د د ځ د د ځ د د ځ د د ځ د د ځ د د ځ د د ځ د د د ځ د د ځ د د د
Alternate	چ کِ کُ کُ کَ کَ کُ کِ کِ کُ کُ کَ کَ دِرِعِهِ اللهِ عَلَيْهِ کِ کُرِ کِ کُ کَ کَ دِرِعِهِ اللهِ عَلَيْهِ الله

## Meem

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

Feature value	Sample	Feature setting
Standard	م ممم خ منه ج مِمِم څ ششم	cv44=0
Sindhi-style	م ممم فر فنفف م مبمم فر فثقث	cv44=1

Affects: U+0647

Heh

Feature value	Sample	Feature setting
Standard	cv48=0 مهه	
Kurdish-style	cv48=3 ه ههم	
Sind hi-style	cv48=1 همم	
Urdu-style	~~~ ° c∨48=2	

### Kirghiz OE Affects: U+06C5

Arrects, 0+00C3			
	Feature value	Sample	Feature setting
Loop		g cv51=0	
Bar		• cv51=1	

### Yeh Hamza Affects: U+0626

150000000000000000000000000000000000000			
	Feature value	Sample	Feature setting
Standard		cv54=0 ئ ئ	
Right hamza		cv54=1 گئی ئے ر	

## Maddah

853 85 A			
	Feature value	Sample	Feature setting
Small		្វា	cv60=0
Large		్గా	cv60=1

## Shadda+kasra placement

Affect	:: U+064D, U+0650 with U+0651		
	Feature value	Sample	Feature setting
Rai	sed	ڔٞٞڔٞ	cv62=0
Lov	wered	<b>్ చ</b> ్ చ	cv62=1

## Damma Affects: U+064F

Feature value	Sample	Feature setting
Standard	் 🗘 сv70=0	
Filled	் 💠 сv70=1	
Short	் 4 cv70=2	

# Affects: U+064C

Dammatan

Feature value	Sample	Feature setting	
Standard	ే 👛 cv72=0		
Six-nine	ి ల cv72=1		

Affects: U+0657

**Inverted Damma** 

reature value	Sample	reature setting
Standard	် ÷ cv74=0	
Hollow	் 👉 сv74=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+069D U+069D U+069B U+069A U+069B U+069C U+06FA U+075C U+076D U+077D U Feature value Sample Feature setting

Testare value	Sample	remark setting
Small	ئ لئى كى للى كى ليلى كى كاللى كى كالله كى كالله كى كالله كى كالله كالل	cv76=0
Large	ئ للفي على الله الله الله الله الله الله الله ال	cv76=1

# Affects: U+0652

Sukun

Closed	ి <i>ب</i> сv78=0
Open down	<b>ົ</b> • c∨78=1
Open left	ُ ئ درر <sub>78=2</sub>
End of ayah	

Sample

Sample

494

474

Sample

cv82=0

cv82=1

**Feature setting** 

Feature setting

Sample

**Feature setting** 

Feature setting

## 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+06DD U+0031 U+0032 U+0033 U+202C U+202D U+06DD U+0611 U+0622 U+0663 U+202C.

Feature value

Feature value

(Î23) (ÎT) Standard cv80=0 (123) (177) Simplified A cv80=1 123 117 Simplified B 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.

0 **Honorific ligatures** Affects: U+FD40..U+FD4F, U+FDCF, U+FDFA..U+FDFB, U+FDFD..U+FDFF

## Feature value Calligraphic

	Feature value	Sample	Feature setting
Eastern digits Affects: U+06F4, U+06F6, U+06F7			
Simplified		والشخيف والشجيفا والشجيف عليالة المقيلام المقيلام المقيلام المقيلات الطبيلاني فيتستخ فيتنتي المقيلان المقيلان والشف والشجيف والشجيفا والشجيف المسترون المسترون المسترون المسترون المسترون المتناف المتناف المتناف والمسترون والمتن	cv81=1 وَاللَّهُ مُن وَطَالِلْهُ عَنِيْ وَطَاللَّهُ مُنَا وَطَاللُهُ عَنِيْ وَطَاللَّهُ مُنَا وَطَاللَّهُ عَنِي وَطَاللَّهُ عَنِينَا وَعَلَيْهُ وَمِنْ وَعِلْمُ وَعِنْ وَالْعِنْ عِلْمِنْ وَعِنْ وَاللَّهُ عِلْمِنْ وَاللَّهُ عِلْمِ وَالْعِلْمِ وَعِنْ وَالْعِنْ وَعِلْمِنْ وَعِلْمُ وَالْعِلْمُ وَعِنْ وَالْعِلْمِ وَعِلْمِ عِلْمِ عِلْمِ وَالْعِلْمِ عِلْمِ وَالْعِلْمِ عِلْمِ عِلْمِ عِلْمِ وَالْعِلْمِ عِلْمِ وَالْعِلْمِ عِلْمِ وَا
		راه در این درای	William Second Com

# Sindhi-style

Standard

Urdu-style cv82=2 Rohingya-style 274 cv82=4 Comma

# Affects: U+060C, U+061B

Feature value	Sample Feature setting	
Upward		
Downward	č c cv84=1	

# Conall rob

Decimal separator

Affects: U+066B

Slash , cv85=1 Line spacing	
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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Feature value