

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 enumerate 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	RenderingOpenType
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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+06BE, U+0626, 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 Doachashmee (06BE)	4	6	7	0650/064E	064C	Feature Setting
default	م مم	ه ههه	٤	٦	٧	بْ	بْ	
Kurdish (Northern)	م مم	ه ههه	٤	٦	٧	بْ	بْ	lang='ku'
Rohingya	م مم	ه ههه	٤	٦	<	بْ	بْ	lang='rhg'
Sindhi	م مم	ه ههه	٤	٦	<	بْ	بْ	lang='sd'
Urdu	م مم	ه ههه	٣	٦	<	بْ	بْ	lang='ur'

Kyrgyz and Wolof

Language	Dal	0626	0650/064E	064F	0657	Feature Setting
default	د	ئ ئئئ	بْ	بْ	بْ	
Kyrgyz	د	ئ ئئئ	بْ	بْ	بْ	lang='ky'

Feature	Sample	Feature setting
Urdu-style	ہ ہ	cv48=2

Heh Doachashmee

Affects: U+06BE

Feature	Sample	Feature setting
Standard	ھ ھ ھ	cv49=0
Knotted-style	ھ ھ ھ	cv49=1
Kurdish-style	ھ ھ ھ	cv49=3

Kirghiz OE

Affects: U+06C5

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

Yeh Hamza

Affects: U+0626

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

Maddah

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

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

Shadda+kasra placement

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

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

Damma

Affects: U+064F

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





Dammatan

Affects: U+064C

Feature	Sample	Feature setting
Standard	ٲٲ	cv72=0
Six-nine	ٲٲ	cv72=1

Inverted Damma

Affects: U+0657

Feature	Sample	Feature setting
Standard	 	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+0770 U+077D U+077E

[illegible]

Feature	Sample	Feature setting
Large		cv76=1

Sukun

Affects: U+0652

Feature	Sample	Feature setting
Closed		cv78=0
Open down		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.

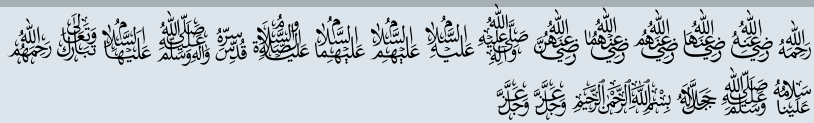

Feature	Sample	Feature setting
Standard		cv80=0
Simplified A		cv80=1
Simplified B		cv80=2

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

٥
٣٤٥

Honorific ligatures

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

Feature	Sample	Feature setting
Calligraphic		cv81=0
Simplified		cv81=1

Eastern digits

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

Feature	Sample	Feature setting
Standard	٤٦٧	cv82=0
Sindhi-style	٤٦<	cv82=1
Urdu-style	٢٦<	cv82=2

Feature	Sample	Feature setting
Rohingya-style	ꠄꠅ꠆	cv82=4

Comma

Affects: U+060C, U+061B

Feature	Sample	Feature setting
Upward	ꠄꠅ	cv84=0
Downward	ꠄ꠆	cv84=1

Decimal separator

Affects: U+066B

Feature	Sample	Feature setting
Small reh	ꠄ	cv85=0
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
Tight
Normal
Loose

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