Scheherazade New - Font Features

Scheherazade New is an OpenType-enabled font family that supports the Arabic script. It 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 being used. 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. For applications that do not make use of 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.

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 font technology.

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

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.

Complete feature list

Language system tags

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+06F5, 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 Kashmiri, Kurdish, Malay, Sindhi, and Urdu. Microsoft Word 2019, but not LibreOffice, supports language-specific behavior for Kyrgyz. Neither application provides support for the Rohingya or Wolof languages. Some Harfbuzz-based apps, e.g., XeTeX, can access language-specific behavior. In the past, it was not always possible to override language-specific behavior in cases where the language-specific variants were undesirable but, as of version 4.300, the font now supports this possibility.

Kashmiri, Kurdish (Northern), Rohingya, Sindhi, Urdu

Language	Meem	Heh Doachashmee (06BE)	4	6	7	0650/064E	064C	0652	Feature Setting
Default	ممم	ههه	ķ	9	٧	بُّ	بث	ů	
Kashmiri	ممم	ههه	٣	٦	4	بِ	بع	Ŷ	lang='ks'
Kurdish (Northern)	ممم	ه ههم	۴	۶	٧	بٌ	بث	ب	lang='ku'
Rohingya	ممم	ههه	٤	٦	4	بِ	بُ	ب	lang='rhg'
Sindhi	مممر	ههه	k	٦	4	بِّ	بْ	<u>ث</u>	lang='sd'
Urdu	ممم	a agg	٣	٦	4	بِ	بْ	ů	lang='ur'

Kyrgyz, Malay, and Wolof

Language	Dal	0626	0674	0650/064E	064F	0657	Feature Setting
Default	د	ئ ئئئ	١ء	بُّ	بُ	ڹ	
Kyrgyz	د	ئى ئىئى	١	بُّ	بُ	ڹ	lang='ky'
Malay	د	ئ ئئئ	١ء	بِّ	بُ	ڹ	lang='ms'
Wolof	5	ئ ئئئ	١ء	بِ	ب	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 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 U+10EC2

Feature	Sample	Feature setting
Standard	د ذ ڈ ډ ڊ ڋ ڌ ڍ ڎ ڏ ڐ ۮ ڋ ݚ ݚ	cv12=0
	۲	
Alternate	ۮۮۮؙۮڋڋڐۮڎڎ۠ۮٞڐۮڋڋڮ	cv12=1
	۲	
Simple		cv12=2

Feature	Sample	Feature setting
	د ذ ڈ ډ ڊ ڋ ڌ ڍ ڎ ڏ ڐ ۮ ڋ ݚ ﭘ	
	۲	

Meem

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

Feature	Sample	Feature setting
Standard	م ممم م ممنم م ممبم م ممثم	cv44=0
Sindhi-style	م ممم فر فمفر مر مجم فر فمفقر	cv44=1
Long-tail	م ممم م ممنم م مممم م مشم	cv44=2

Heh

Affects: U+0647 (This feature is not recommended for use. The features available for Heh Doachashmee are preferred.)

Feature	Sample	Feature setting
Standard	ه ههه	cv48=0
Kurdish-style	ه ههم	cv48=3
Sindhi-style	ه ههم	cv48=1
Urdu-style	مہر ہ	cv48=2

Heh Doachashmee

Affects: U+06BE

Feature	Sample	Feature setting
Standard	a agg	cv49=0
Knotted	ه ههم	cv49=1
Bowtie	ه ههه	cv49=2
Kurdish-style	ه ههم	cv49=3

Kyrgyz OE

Affects: U+06C5

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

Yeh Hamza

Affects: U+0626

Feature	Sample	Feature setting
Standard	ئ ئ	cv54=0
Right hamza	ئى ئى	cv54=1
Mid hamza	ئ ئ	cv54=2

Maddah

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

Feature	Sample	Feature setting
Small	៍រីរី	cv60=0
Large	៊ីTT	cv60=1

Shadda+kasra placement

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

Feature	Sample	Feature setting
Default	ٿِ ٿِّ ٿِّ	cv62=0
Lowered	ૄૣ૿ૻૣૣ૾ૻૢ૾ૻૢૼ	
Raised	ٿِ ٿِّ ٿِّ	cv62=2

Damma

Affects: U+064F

Feature	Sample	Feature setting
Default	بُ ث	cv70=0
Filled	ب ُ	cv70=1
Short	بُ ث	cv70=2
Crossed	بُ ث	cv70=3

Dammatan

Affects: U+064C

Feature	Sample	Feature setting
Standard	<u>ి</u> చి	cv72=0
Six-nine	<u>ో</u> చ	cv72=1
Two-nine	^م م	cv72=2

Inverted Damma

Affects: U+0657

Feature	Sample	Feature setting
Default	ب '	cv74=0
Hollow	<i>ب</i> '	cv74=1
Filled	<i>ٺ</i> ٺ	cv74=2

Superscript Alef

Affects: U+0670 on all yeh, sad and seen-like characters U+0620, U+0626, U+0633, U+0634, U+0635, U+0636, U+063D, U+063E, U+063F, U+0649, U+064A, U+0678, U+0669A, U+069B, U+069D, U+069E, U+06CC, U+06CD, U+06CE, U+06D0, U+06D1, U+06FA, U+06FB, U+075C, U+076D, U+0770, U+077D, U+077E, U+0775, U+0775, U+0777, U+08A8, U+08A9, U+08AF, U+08BA

Feature	Sample	Feature setting
Default	ك پائ ئ ئى سا ساس شا شاشا صا صاصل صل صلصل ئ يُنى ئ تئى ئ تُئ ئى كى لى كى ليى ئى ئى سا بنابنل سا ساس شا شاش صا صاصل صل صطل كى ليى ئ میا كى نی ئ با با پ پاپی شا بیلى كى نی ئا با با پ پاپی شا شاشل من شاشل شا شاشل شا شاشل من نی ئی كا نی ئی نی	cv76=0
Large	ك لها ئ لما سل سلس شا ششا صل صل صل ضل من يُني ى الله الله الله الله الله الله الله ال	cv76=1
Small	کا لیا کا تکی سل سلسل شل ششل صل صلصل ضل ضلضل کی کی کی این کا لیا کی لیا علی ایک این کا بیل سل سلسل شا شاپشل سل بنلبنل سل سلسل شل شاپشل صل صلصل صل ضلصل کی لیا کی	cv76=2

Sample	Feature setting
بہٰ کؑ کٰیٰ کٖ لہٰی کِ لپیٰ شِل	
شٰشِ ض خِلْضِ شَلْ شَلْسُلْ سُلْ	
ىنلىنى تىل تىلىنىل مىل مىلىكىل مىل	
شٰشٰ یٰ لیٰ یَٰ لیٰی یٰ لیٰی یٰ	
أَيْ يَٰ يَٰي صِل صِلَّ كُنَّ يُكِي اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ	
	بیلی کی کیلی کی لیلی شل ششل خل خلیل شل شاشل منل مناسل شل شاشل منل مناسل منل شاشل کی کیلی کی لیجی کیا استار کی کیلی کی لیجی کیا

Sukun

Affects: U+0652

Feature	Sample	Feature setting
Closed	<i>ْ</i> ب	cv78=0
Open down	ب ث	cv78=1
Open left	بْ أ	cv78=2
Closed	ْ بْ	cv78=3

End of ayah

Affects: U+06DD

These alternates are also available using the Stylistic Alternates (salt) feature, but at this time we know of no OpenType-based applications that can access these.

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) (177)	cv80=0
Simplified A	(123) (177)	cv80=1
Simplified B	123 177	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.



Honorific ligatures

Affects: U+FBC6..U+FBC7, U+FD40..U+FD4F, U+FD90..U+FD91, U+FDCF, U+FDFA..U+FDFB, U+FDFD..U+FDFF, U+FDFB, U+F

Feature	Sample	Feature setting
Calligraphic	عَلَيْدَ عِلَيْدَ وَلِيْنَ وَلِيْنَ وَلِيْنَ وَلِيْنَ وَلِيْنِ عِلَيْدِهِ عَلَيْدِهِ عَلِيدٍ عَلَيْدِهِ عَلِي	cv81=0
Simplified	يحالله يحالله والله والله والله عليه الله على الله على الله والمسلم المسلم الم	cv81=1

Eastern digits

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

Feature	Sample	Feature setting
Standard	497	cv82=0
Sindhi-style	47<	cv82=1
Urdu-style	47<	cv82=2
Kurdish-style	457	cv82=3
Rohingya-style	٤٦٤	cv82=4
Default	474	cv82=5

Comma

Affects: U+060C, U+061B (This feature is not recommended for use. The Unicode Standard recommends the use of U+2E41 and U+204F instead.)

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	1	cv85=1

Guillemet

Affects: U+00AB U+00BB U+2039 U+203A

Feature	Sample	Feature setting
Rounded	«(ب)»	cv88=0
Angled	«‹ب›»	cv88=1

Other user font features

Line spacing

This feature is only available in TypeTuner Web.

Allows for adjustment of the default line spacing in the font (values shown are ordered in increasing line spacing).

Feature		
Tight		
Normal		
Loose		

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