# **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+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 Kashmiri, Kurdish, 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	k	۶	٧	بٌ	بث	ث	
Kashmiri	ممم	ههه	٣	٦	4	بِ	بث	<u>ث</u>	lang='ks'
Kurdish (Northern)	ممم	ه ههم	k	۶	٧	ب	بث	ث	lang='ku'
Rohingya	ممم	ه ههه	٤	٦	4	بِ	بُ	ů	lang='rhg'
Sindhi	ممم	ه ههه	ķ	٦	4	بِ	بْ	ů	lang='sd'
Urdu	ممم	ه ههه	٣	٦	4	بِ	بْ	ů	lang='ur'

### **Kyrgyz and Wolof**

Language	Dal	0626	0650/064E	064F	0657	Feature Setting
Default	د	ئ ئئئ	بِّ	بُ	ڹ	
Kyrgyz	د	ئى ئئئى	بِّ	بُ	ڹ	lang='ky'
Wolof	5	ئ ئئئ	ٿ	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 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 د ډ ډ ډ د د د د د د د د د د د د د د	cv12=0
	ې	
Alternate	ۮۮۮؙڿڋڋڐڍڎڐۮ۠ڐۮٛڋڿڿ	cv12=1
	ې	
Simple	د ذ د ٔ ډ ډ ځ د د د د د د د د ډ ډ ډ	cv12=2
	ې	

#### Meem

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

Feature	Sample	Feature setting
Standard	م ممم م ممنم م ممبم م ممم	cv44=0
Sindhi-style	م ممم فر فنف م ممم ثر شمش	cv44=1
Long-tail	م ممم م ممنم م ممم م ممثم	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	ه په	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	៑៘	cv60=1

## Shadda+kasra placement

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

Feature	Sample	Feature setting
Default	ٿِ ٿِ ٿِ	cv62=0
Lowered	<i>្ខ</i> ្ខុ ្	cv62=1
Raised	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> ో	cv72=1
Two-nine	<sup>م</sup> م	cv72=2

#### **Inverted Damma**

Affects: U+0657

Feature	Sample	Feature setting
Default	بُ ث	cv74=0
Hollow	بْ ث	cv74=1
Filled	بُ ث	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+0649, U+064A, U+0678, U+069A, U+069B, U+069D, U+069E, U+06CC, U+06CD, U+06CE, U+06DD, 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+08AF, U+08BA

Feature	Sample	Feature setting
Default	ك لها ئ ئى س ساس ش شش صل صل صل صل صل صل ضل كَ يُمْ يَ يَكُ يَ يَكُ عَ لَيْ يَكُ عَ لَيْ يَكُ عَلَى الله عَلَى الله عَلَى الله عَلَى الله عَلَى الله عَلَى الله الله الله الله الله الله الله الل	cv76=0
Large	عُ الْهُ اللّٰ عَلَىٰ مَلَ سَلَّ اللّٰ اللللّٰ الللللّٰ الللللللللل	cv76=1
Small	ی پلی ی تئی سل سلسل شل ششل صل صلصل ضل ضلضل کی کیلی ی تیلی کی نیلی کی لیلی می تئی بنل بنلبنل پسل سلسپل پشل پشاپشل صل صلصل صل شطس کی لیلی 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 نِي صِلْ صِلْ يُ آيَٰنِ	
	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	ံ	cv78=0
Open down	ب ث	cv78=1
Open left	ئ ب	cv78=2
Closed	ံ <i>ံ</i>	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+FD40..U+FD4F, U+FDCF, U+FDFA..U+FDFB, U+FDFD..U+FDFF

Feature	Sample	Feature setting
Calligraphic	والله النَّبِي الله الله الله الله الله الله الله الل	cv81=0
Simplified	َ اللّٰهُ وَيَعَالَى السَّيْلِمُ عَلَيْكُمْ وَالْمَدِّى وَالْسَّلِيْمُ عَلَيْهِمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهُمْ عَلَوْمُ وَمِعْلَ عَرَوْجَلَّ عَرَوْجَلَ عَرَوْجَلَّ عَرَوْجَلَ عَرَوْجَلَ عَرَوْجَلًا فَعَلَيْهِمْ عَلَيْهِمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهِمْ عَلَيْهُمْ عَلَيْهِمْ عَلَيْهُمْ عَلِيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْكُمْ عَلَيْكُمْ عَلَيْكُمْ عَلَيْهُمْ عَلَيْهِمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهُمْ عَلِيْكُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِمْ عَلَيْهِم	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	M7<	cv82=2
Kurdish-style	457	cv82=3
Rohingya-style	٤٦٧	cv82=4
Default	47<	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

### 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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