

# 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 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 ههھ	٤	٦	٧	بْ	بْ	
Kurdish (Northern)	م مم	ه ههھ	٤	٦	٧	بْ	بْ	lang='ku'
Rohingya	م مم	ه ههھ	٤	٦	<	بْ	بْ	lang='rhg'
Sindhi	م مم	ه ههھ	٤	٦	<	بْ	بْ	lang='sd'
Urdu	م مم	ه ههھ	٢	٦	<	بْ	بْ	lang='ur'

## Kyrgyz and Wolof

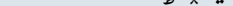

Language	Dal	0626	0650/064E	064F	0657	Feature Setting
Default	د	ئ ئى	بّ	بُ	بُ	
Kyrgyz	د	ئ ئى	بّ	بُ	بُ	lang=' ky '
Wolof	د	ئ ئى	بّ	بُ	بُ	lang=' wo '

## 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

Feature	Sample	Feature setting
Standard		cv12=0
Alternate		cv12=1

## Meem

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

<b>Feature</b>	<b>Sample</b>	<b>Feature setting</b>
Standard	م مم م ففم م بجم ق قمثم	cv44=0
Sindhi-style	ر رمم ر فنفر بر ببجر ثر ثمثر	cv44=1

## Heh

Affects: U+0647

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

## Heh Doachashmee

Affects: U+06BE

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

## Kyrgyz 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	cv54=0
Right hamza	ئ ئ	cv54=1

## Maddah

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

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

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

**Damma**  
Affects: U+064F

## Dammatan

Affects: U+064C

## Inverted Damma

Affects: U+0657

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+069A, U+069B, U+069C, 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+0776, U+0777, U+08A8, U+08A9, U+08AF, U+08BA

Feature	Sample	Feature setting
Default	اَ اِ اُ اِئْ اِئْ سِ سِ سِ شِ شِ صِ صِ صِ ضِ ضِ ضِ يِ يِ يِ تِ تِ تِ ثِ ثِ ثِ لِ لِ لِ لِ لِ لِ بِ بِ بِنِ بِ بِ پِ پِ پِ پِ پِ	cv76=0

[illegible]

## 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




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		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+FDFF..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
Kurdish-style	٤٦٧	cv82=3
Rohingya-style	٤٦<	cv82=4
Sindhi-style	٤٦<	cv82=1
Urdu-style	٢٦<	cv82=2

### Comma

Affects: U+060C, U+061B

Feature	Sample	Feature setting
Upward	ﻭ ﻭ	cv84=0
Downward	ﻭ ﻭ	cv84=1

### Decimal separator

Affects: U+066B

Feature	Sample	Feature setting
Small reh	ﺭ	cv85=0
Slash	/	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

This guide is from the [Scheherazade New project](#) version 4.000 and is copyright © 1994-2024 SIL International.