

Harmattan - Font Features

Harmattan 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. [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 language 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 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 Harmattan as a web font see *harmattan-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, U+0890..U+0891)

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, Harmattan 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 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.

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+0647, U+0626, U+060C, U+061B, 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 ممم	ه ههه	٤	٦	٧	بِ	بْ	
Kurdish (Northern)	م ممم	ه ههه	٤	٦	٧	بْ	بِ	lang='ku'
Rohingya	م ممم	ه ههه	٤	٦	٧	بِ	بْ	lang='rhg'
Sindhi	م ممم	ه ههه	٤	٦	٧	بِ	بْ	lang='sd'
Urdu	م ممم	ه ههه	٤	٦	٧	بِ	بْ	lang='ur'

Kyrgyz and Wolof

Language	Dal	0626	0650/064E	064F	0657	Feature Setting
Default	د	ئ ئئئ	بِ	بْ	بُ	
Kyrgyz	د	ئ ئئئ	بْ	بْ	بُ	lang='ky'
Wolof	د	ئ ئئئ	بِ	بْ	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.

Jeem/Hah

Feature	Sample	Feature setting
Standard	م ممر فر فمفر فر مجبر فر مُمثر	cv44=0
Sindhi-style	م ممر ف فمفم ف مجبم ف مُمثم	cv44=1

Heh

Affects: U+0647

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

Heh Doachashmee

Affects: U+06BE

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

Kyrgyz OE

Affects: U+06C5

Feature	Sample	Feature setting
Loop	g	cv51=0

Feature	Sample	Feature setting
Bar	ڨ	cv51=1

Yeh Hamza

Affects: U+0626

Feature	Sample	Feature setting
Standard	عْ ع	cv54=0
Right hamza	عْ ع	cv54=1

Maddah

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

Feature	Sample	Feature setting
Small	آ̣ آ̣	cv60=0
Large	آ̣̣ آ̣̣	cv60=1

Shadda+kasra placement

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

Feature	Sample	Feature setting
Default	ع̣̣ ع̣̣ ع̣̣ ع̣̣	cv62=0
Lowered	ع̣̣̣ ع̣̣̣ ع̣̣̣ ع̣̣̣	cv62=1
Raised	ع̣̣̣̣ ع̣̣̣̣ ع̣̣̣̣ ع̣̣̣̣	cv62=2

Damma

Affects: U+064F

Feature	Sample	Feature setting
Rohingya-style	٤٦٧	cv82=4
Sindhi-style	٤٦٧	cv82=1
Urdu-style	٤٦٧	cv82=2

Comma

Affects: U+060C, U+061B

Feature	Sample	Feature setting
Upward	٤٤	cv84=0
Downward	٤٤	cv84=1

Decimal separator

Affects: U+066B

Feature	Sample	Feature setting
Small reh	٬	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
Normal
Loose
1.0 Compatible Normal

Feature

1.0 Compatible Loose

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