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. 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 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.

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+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	අදිත ත	Ιc	۶	٧	ٺِ	ů	
Kurdish (Northern)	م ممم	නිදන න	Ιc	5	٧	ب	ů.	lang='ku'
Rohingya	م ممم	අදිත ත	٤	٦	L	ٺِ	÷	lang='rhg'
Sindhi	ممم	අදන න	Ιc	٦	L	ٺِ	ů.	lang='sd'
Urdu	م ممم	අදන න	٣	٦	L	ٺ	ů	lang='ur'

Kyrgyz and Wolof

Language	Dal	0626	0650/064E	064F	0657	Feature Setting
Default	د	ئ ئئئ	ٽِ	ب	ب	
Kyrgyz	د	ئى ئئئى	ٿِ	ب	ب	lang='ky'
Wolof	۶	ئ ئئئ	ٿ	ب	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.

Jeem/Hah

Affects: U+062C, U+062D, U+062E, U+0682, U+0683, U+0684, U+0685, U+0686, U+06BF, U+0757, U+0758, U+088A, U+08A2, U+08C1, U+08C5, U+08C6

Feature	Sample	Feature setting
Standard	 ج ججج ح ححح خ خخخ خ خ خ چ چیچ چ چېچ څ څ څ چ چپچ چ چپچ ټ ح چیچ چ چیچ چ ج چیچ چ چیچ چ ج چیچ څ څ څ څ څ چ چپچ چپچ 	cv08=0
Handwritten	۾ جبج ۾ حبح خ خنخ خ ڂٺڂ ۾ ڇيج ۾ ڄٻ۾ څ څټڅ ۾ چپڇ ۾ چپنې څ	cv08=1

Feature	Sample	Feature setting
	حَتَحَ ۾ جِبِج ۾ جبِج جَ	
	<i>ڂٙڹٙ</i> ڿٙڿٚڿٚڿٝ ڿٝڂؚڹٝڿٝ ۾	
	چېڅ	

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	د ذ ڈ ډ ڊ ڋ ڌ ڍ ڎ ڏ ڐ ۮ ڋ ݚ ݚ	cv12=0
Alternate	ڂڂڴڿڿڴڴڴڴڴڴڴڴ	cv12=1

Sad/Dad

Affects: U+0635, U+0636, U+069D, U+069E, U+06FB, U+08AF

Feature	Sample	Feature setting
Standard	ص صصص ض ضضض	cv20=0
Half	م مصم فر فففر ۾ صِصِم ڤر ڤڦڠ چِڥچر چر فر فِففر	cv20=1

Meem

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

Feature	Sample	Feature setting
Standard	م ممم ف مفغ ۾ مِمِم ڠ ڤڤڠ	cv44=0
Sindhi-style	م ممم م ففف ۾ مِمِم هُ قَقَقُ	cv44=1

Heh

Affects: U+0647

Feature	Sample	Feature setting
Standard	مهه ه	cv48=0
Kurdish-style	മഭമ മ	cv48=3
Sindhi-style	മമമ മ	cv48=1
Urdu-style	مهره	cv48=2

Heh Doachashmee

Affects: U+06BE

Feature	Sample	Feature setting
Standard	ক তম্ভ	cv49=0
Knotted	മമമ മ	cv49=1
Kurdish-style	യ്യോ മ	cv49=3

Kyrgyz OE

Affects: U+06C5

Feature	Sample	Feature setting
Loop	э	cv51=0
Bar	9	cv51=1

Yeh Hamza

Affects: U+0626

Feature	Sample	Feature setting
Standard	ئئ	cv54=0
Right hamza	ئى ئى	cv54=1

Maddah

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

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

Shadda+kasra placement

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

Feature	Sample	Feature setting
Default	្ខំ ្ខំ ្	cv62=0
Lowered	្ខំ ្ខំ ្	cv62=1
Raised	<u> </u>	cv62=2

Damma

Affects: U+064F

Feature	Sample	Feature setting
Default	ံ င္	cv70=0
Filled	় ়	cv70=1
Short	ံ င္	cv70=2

Dammatan

Affects: U+064C

Feature	Sample	Feature setting
Standard	ి ఆ	cv72=0
Six-nine	૾૽ ૡ૾	cv72=1

Inverted Damma

Affects: U+0657

Feature	Sample	Feature setting
Default	ံ ငံ	cv74=0
Hollow	ံ ငံ	cv74=1
Filled	ٺ 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+0649, U+064A, U+0678, U+069A, 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+08AF, U+08BA

Feature	Sample	Feature setting
Default	و پای کا گئ س سلس ش شلش ص طص ض ضض ی یکی کا یکی کا یکی کا یکی کا لیا یا یلی کا گئی س بنلبنن پن پلپن پش پشش می طیم ش ظش کا یلی کا یہ کی کا یکی کا بہا یا پلی ش ششن خل خض ش شلش س شلش گا یکی کا پہا یک گئی کا بیا یکی س گا یکی کا پہا یک گئی کا نیا چا چا	cv76=0
Large	و' ہٰوا یُٰ ایٔ سُل سُلسُل شُل شُلشُل ص طصل ضل ظفل یُٰ ایُٰی یَٰ تَنِیٰ یُٰ الْٰیٰ کا لیا یا لیا کی ائٹی بنل بنلبنل پیل	cv76=1

Feature	Sample	Feature setting
	سلسل شِ شِلشِ حل طِحل صُ طُصْ کا یکی کہ بی کی نکی کہ بہی کی پی شِل شلشِ اضل ظِفِل شِل شلسًا مِنْ مُلسُل شُل شُلسُّل مَنْ اللَّمَا مِنْ اللَّمَا عَلَّ اللَّمَّا کی اُنٹی کی لچی کی	
Small	وا ہای کا کئی سا سلسا شا شاشا صا طصا ضا ظفا کا کئی کا تاتا کا ڈی کا لئی کی بائی کی بٹی بنیا بنلینیا پیل پلیپیا پٹیا پٹلیٹیا صا طیصا شا ظشا کا بلی کا بہا کا بلی کیا بلی پلی بٹی بٹلیٹرا بٹی طاطر سا سلسل سا سلسا سا سلسل سٹا ہٹلیٹرا سا سلسا شا سا	cv76=2

Sukun

Affects: U+0652

Feature	Sample	Feature setting
Closed	ံ ငှ	cv78=0
Open down	ိ ငှ	cv78=1
Open left	<u>ٔ</u> ٻ	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

Feature	Sample	Feature setting
	(123) (PP)	
Simplified A	123 (144)	cv80=1
Simplified B	123	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.



Eastern digits

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

Feature	Sample	Feature setting
Standard	۴۶۷	cv82=0
Kurdish-style	451	cv82=3
Rohingya-style	٤٦٤	cv82=4
Sindhi-style	۴٦८	cv82=1
Urdu-style	۲۲۸	cv82=2

Comma

Affects: U+060C, U+061B

Feature	Sample	Feature setting
Upward	٠ ،	cv84=0
Downward	; ;	cv84=1

Decimal separator

Affects: U+066B

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

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