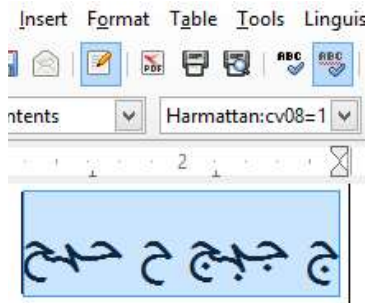# Font Features for Harmattan

The Harmattan font includes a number of optional features that provide alternative rendering that might be preferable for use in some contexts. The chart below enumerates the details of these features. Whether these features are available to users will depend on both the application and the rendering technology (Graphite or OpenType) being used. Most features are available in both Graphite and OpenType, though there may be minor differences in their implementation.

In LibreOffice 3.4.2+ (http://www.libreoffice.org/download/) the features are available only when Graphite rendering is enabled (the default). Features can be turned on by choosing the font (i.e., Harmattan), followed by a colon, followed by the feature ID, and then followed by the feature setting. So, for example, if the "Jeem/Hah" handwriting variant is desired, the font selection would be "Harmattan:cv08=1".

If you wish to apply two (or more) features, you can separate them with an "&". Thus, "Harmattan:cv08=1&cv20=1" would apply the "Jeem/Hah" plus the "Sad/Dad" feature.
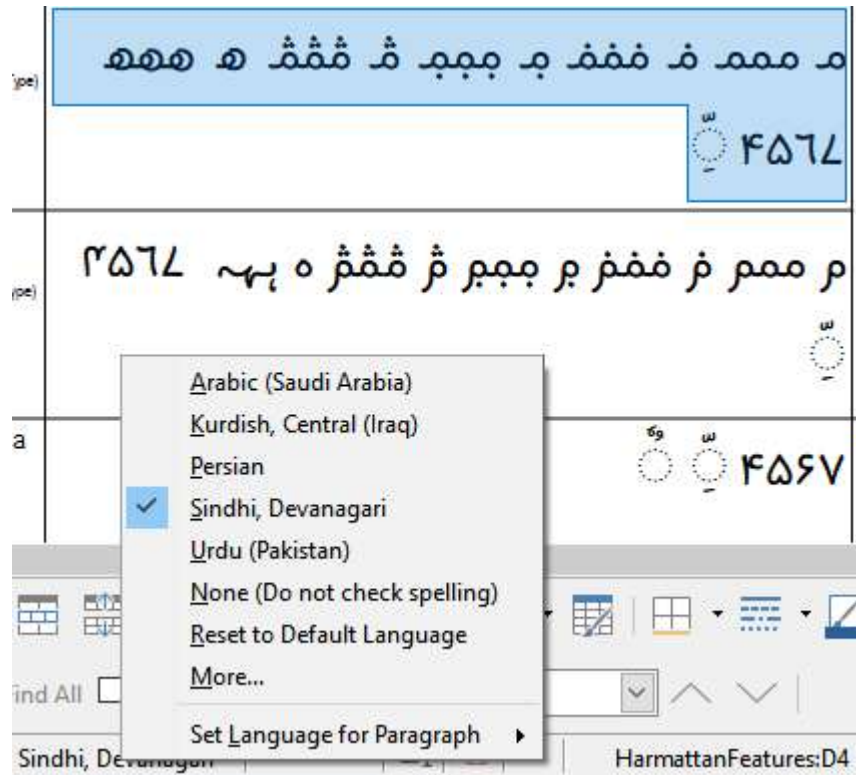
In Mozilla Firefox, with either Graphite or OpenType rendering, features can be accessed using the appropriate CSS markup. A description of how to use the font features in Mozilla Firefox can be found here: http://scripts.sil.org/cms/scripts/page.php?site_id=projects&item_id=graphite_firefox#cf8a0574 (the technique described there works for both Graphite and OpenType).

Ideally the selection of these font features is done in application programs, but many applications do not yet support this functionality. In response to this lack of support for features, a program called TypeTuner (command line version: http://scripts.sil.org/TypeTuner and web-based version: http://scripts.sil.org/ttw) allows users to create derivative fonts with their own feature settings based on the needs of a local project or region.

You can also apply a language-based feature which will turn on all features associated with that language. The font would be set to "Harmattan" and then you need to change your language in your application. In LibreOffice you should first enable complex text layout

(**Tools / Options / Language Settings / Languages** and then select **Enabled for complex text layout (CTL).** Then, you can select your text, click on the status bar to change the language, select your language (if it is not displayed, click on "More..."). Microsoft Word 2010 also supports this feature. Before opening Word, you should go to **Start / All Programs / Microsoft Office / Microsoft Office 2010 Tools / Microsoft Office 2010 Language Preferences** and add any editing languages you want to use. However, Word 2010 does not offer Kurdish as an editing language, so the only languages you can select are Urdu or Sindhi.

In the following screenshot, the Sindhi language has been selected.
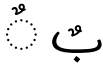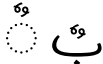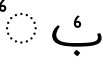

The following font features are available in Harmattan. Note that within each feature the top-most value is the default.

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes[1]
Language			مَ ممم مٌ فُفُفُ مِ مبِمبِ مٌ مٌمٌمٌ ه ههه ۴۵۶۷ ◌ّ	G,O,T
Kurdish (Northern)	ku	Language set to Kurdish XeTeX: "Harmattan/GR:language=ku" (Graphite) XeTeX: "Harmattan:language=ku" (OpenType) HTML: lang="ku"	مَ ممم مٌ فُفُفُ مِ مبِمبِ مٌ مٌمٌمٌ ه ههه ۴۵۶۷ ◌ّ	
Sindhi	sd	Language set to Sindhi XeTeX: "Harmattan/GR:language=sd" (Graphite) XeTeX: "Harmattan:language=sd" (OpenType) HTML: lang="sd"	مَ ممم مٌ فُفُفُ مِ مبِمبِ مٌ مٌمٌمٌ ه ههه ۴۵۶۷ ◌ّ	
Urdu	ur	Language set to Urdu XeTeX: "Harmattan/GR:language=ur" (Graphite) XeTeX: "Harmattan:language=ur" (OpenType) HTML: lang="ur"	مَ ممم مٌ فُفُفُ مِ مبِمبِ مٌ مٌمٌمٌ ه ہہ ۳۵۶۷ ◌ّ	
Dal (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)	cv12	0=Standard	دٜ ذٜ ڈٜ ډٜ ڊٜ ڋٜ ڌٜ ڍٜ ڎٜ ڏٜ ڐٜ ڮٜ ݙٜ ݚٜ ࢮٜ	G,O,T
		1=Alternate XeTeX: "Scheherazade/GR:Dal=Alternate"	دٜ ذٜ ڈٜ ډٜ ڊٜ ڋٜ ڌٜ ڍٜ ڎٜ ڏٜ ڐٜ ڮٜ ݙٜ ݚٜ ࢮٜ	

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1   **Implementation Notes: G**=Implemented in Graphite; **O**=Implemented in OpenType; **T**=Implemented in TypeTuner (command line version: http://scripts.sil.org/TypeTuner and web-based version: http://scripts.sil.org/ttw) .

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Sad/Dad (U+0635, U+0636, U+069D, U+069E, U+06FB, U+08AF)	cv20	0=Standard	ص صصص ض ضضض ۑ ۑۑۑ ڎ ڎڎڎ ڽ ڽڽڽ ڀ ڀڀڀ	G,O,T
		1=Half XeTeX: "Harmattan/GR:Sad/Dad=Half"	� صصﯯ ﺿ ضﺿﺿ ﯕ ﯕﯕﯕ ﮎ ﮎﮎﮎ ﮘ ﺿﺿﯕ ﮁ ﮁﮁﮁ	
Meem (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard	م ممم ڥ ڦڦڦ ﮐ ﺑﺑﺑ ﺂ ﺂﺂﺂ	G,O,T
		1=Sindhi-style XeTeX: "Harmattan/GR:Meem=Sindhi-style"	ﻣ ﻣﻣﻣ ﻓ ﻓﻓﻓ ﺑ ﺑﺑﺑ ﺂ ﺂﺂﺂ	
Heh (U+0647)	cv48	0=Standard	ه ههه	G,O,T
		3=Kurdish-style XeTeX: "Harmattan/GR:Heh=Kurdish-style"	ھ ھھھ	
		1=Sindhi-style XeTeX: "Harmattan/GR:Heh=Sindhi-style"	ﮪ ﮪﮪﮪ	
		2=Urdu-style XeTeX: "Harmattan/GR:Heh=Urdu-style"	ہ ﮩﮨ	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Arabic U (U+0677, U+06C7)	cv50	0=Standard	ۇ ۇ	G,O,T
		1=Filled XeTeX: "Harmattan/GR:Arabic U=Filled"	ۇ ۇ	
Maddah (U+0622, U+0627+U+0653, U+0653)	cv60	0=Small	◌ٓ آ آ	G,O,T
		1=Large	◌ٓ آ آ	
Shadda+kasra placement (U+064D, U+0650 with U+0651)	cv62	0=Default	◌ّ ب ◌ّ ب	G,T
		1=Lowered XeTeX: "Harmattan/GR:Shadda+kasra placement=Raised"	◌ّ ب ◌ّ ب	
		2=Raised XeTeX: "Harmattan/GR:Shadda+kasra placement=Raised"	◌ّ ب ◌ّ ب	
Damma (U+064F)	cv70	0=Standard	◌ُ ب	G,O,T
		1=Filled XeTeX: "Harmattan/GR:Damma=Short"	◌ُ ب	
		2=Short XeTeX: "Harmattan/GR:Damma=Filled"	◌ُ ب	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Dammatan (U+064C)	cv72	0=Standard	بٌ ⊙ٌ	G,O,T
		1=Six-nine XeTeX: "Harmattan/GR:Dammatan=Six-nine"	بٌ ⊙ٌ	
Inverted Damma (U+0657)	cv74	0=Standard	بٗ ⊙ٗ	G,O,T
		1=Hollow XeTeX: "Harmattan/GR:Inverted Damma=Hollow"	بٗ ⊙ٗ	
Superscript Alef (U+0670 on all yeh, sad and seen-like characters U+0649 U+064A U+06D0 U+06D1 U+06CC U+0635 U+0636 U+069D U+069E U+06FB U+08AF U+0633 U+0634 U+069A U+069B U+069C U+06FA U+076D U+077E)	cv76	0=Small	ىٰ ٮٰىٰ يٰ يٰيٰيٰ يٰ ٮٰيٰٮٰيٰ ٮٰ ٮٰٮٰيٰ ىٰ يٰيٰيٰ صٰ طٰطٰصٰ ضٰ ضٰضٰضٰ ىٰ ىٰىٰيٰ ثٰ ثٰثٰثٰ ٮٰ ٮٰطٰطٰ ڇٰ ڇٰڇٰڇٰ سٰ سٰسٰسٰ شٰ شٰشٰشٰ ٮٰ ٮٰٮٰٮٰٮٰ ٮٰ ٮٰٮٰٮٰٮٰ ٮٰ ٮٰٮٰٮٰٮٰ ٮٰ ٮٰٮٰٮٰٮٰ شٰ شٰشٰشٰ ٮٰ ٮٰٮٰٮٰٮٰ شٰ شٰشٰشٰ شٰ شٰشٰشٰ	G,O,T
		1=Large XeTeX: "Harmattan/GR:Superscript Alef=Large"	ىٰ ٮٰىٰ يٰ يٰيٰيٰ يٰ ٮٰيٰٮٰيٰ ٮٰ ٮٰٮٰيٰ ىٰ يٰيٰيٰ صٰ طٰطٰصٰ ضٰ ضٰضٰضٰ ىٰ ىٰىٰيٰ ثٰ ثٰثٰثٰ ٮٰ ٮٰطٰطٰ ڇٰ ڇٰڇٰڇٰ سٰ سٰسٰسٰ شٰ شٰشٰشٰ ٮٰ ٮٰٮٰٮٰٮٰ	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
			بپا پلپلپلپا بپا پٹپٹپٹپا ثبا ثٹبثٹبثا ثبا ثلثلثلثا ثبا ثلثلثلثا	
Sukun (U+0652)	cv78	0=Closed	بْ	G,O,T
		1=Open down XeTeX: "Harmattan/GR:Sukun=Open down"	بْ	
		2=Open left XeTeX: "Harmattan/GR:Sukun=Open left"	بْ	
End of ayah (U+06DD)	cv80	0=Standard	۝	G,O,T
		1=Simplified A XeTeX: "Harmattan/GR:End of ayah=Simplified A"	۝	
		2=Simplified B XeTeX: "Harmattan/GR:End of ayah=Simplified B"	۝	
Eastern digits (U+06F4, U+06F6, U+06F7)	cv82	0=Standard	۴۵۶۷	G,O,T
		1=Sindhi-style XeTeX: "Harmattan/GR:Eastern digits=Sindhi-style"	۴۵۶۷	
		2=Urdu-style XeTeX: "Harmattan/GR:Eastern digits=Urdu-style"	۴۵۶۷	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
Comma (U+060C, U+061B)	cv84	0=Upward 1=Downward XeTeX: "Harmattan/GR:Comma=Downward"		G,O,T
Line spacing		Normal Loose	Allows for adjustment of the default line spacing in the font.	T