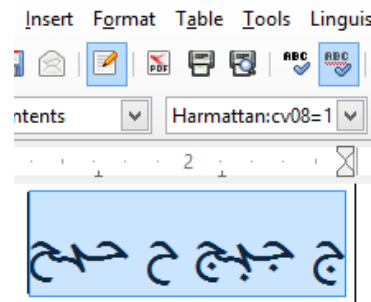# Font Features for Harmattan

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/) or OpenOffice 3.2+ (http://www.openoffice.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.

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]
Alef diacritic placement (U+0623, U+0625, U+0627, U+064E, U+0650, U+0654, U+0655)	cv02	0=Standard	أإاَاِأإلألإ	G,O,T
		1=Hamza touching XeTeX: "Harmattan/GR:Alef diacritic placement=Hamza touching"	أإاَاِأإلألإ	
		2=Touching XeTeX: "Harmattan/GR:Alef diacritic placement=Touching"	أإاَاِأإلألإ	
Jeem/Hah (U+062C, U+062D, U+062E, U+0682, U+0683, U+0684, U+0685, U+0686, U+06BF, U+0757, U+0758, U+08A2)	cv08	0=Standard	ج ججج ح ححح خ خخخ ڂ ڂڂڂ ڃ ڃڃڃ ڄ ڄڄڄ څ څڅڅ چ چچچ ڿ ڿڿڿ ݗ ݗݗݗ ݘ ݘݘݘ ࢢ ࢢࢢࢢ	G,O,T
		1=Handwritten XeTeX: "Harmattan/GR:Jeem/Hah=Handwritten"	ج ججج ح ححح خ خخخ ڂ ڂڂڂ ڃ ڃڃڃ ڄ ڄڄڄ څ څڅڅ چ چچچ ڿ ڿڿڿ ݗ ݗݗݗ ݘ ݘݘݘ ࢢ ࢢࢢࢢ	
Sad/Dad (U+0635, U+0636, U+069D, U+069E, U+06FB, U+08AF)	cv20	0=Standard	ص صصص ض ضضض ڝ ڝڝڝ ڞ ڞڞڞ ۻ ۻۻۻ ࢯ ࢯࢯࢯ	G,O,T
		1=Half XeTeX: "Harmattan/GR:Sad/Dad=Half"	ص صصص ض ضضض ڝ ڝڝڝ ڞ ڞڞڞ ۻ ۻۻۻ ࢯ ࢯࢯࢯ	

---

[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
Meem (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard	مر ممم مٔ مٔممٔ بر مٖبمٖ مٖ مٖمٖمٖ	G,O,T
		1=Sindhi-style XeTeX: "Harmattan/GR:Meem=Sindhi-style"	مر ممم مٔ مٔممٔ بر مٖبمٖ مٖ مٖمٖمٖ	
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	1=Lowered	◌ؚ بؚ ◌ؚ بؚ	G,T
		0=Raised XeTeX: "Harmattan/GR:Shadda+kasra placement=Raised"	◌ؚ بؚ ◌ؚ بؚ	
Damma (U+064F)	cv70	0=Standard	◌ُ بُ	G,O,T
		2=Short XeTeX: "Harmattan/GR:Damma=Filled"	◌ُ بُ	
Dammatan (U+064C)	cv72	0=Standard	◌ٌ بٌ	G,O,T
		1=Six-nine XeTeX: "Harmattan/GR:Dammatan=Six-nine"	◌ٌ بٌ	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
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 ڵلٰىٰ يٰ ئيلىٰيٰ ىٰ ئبلىبٰيٰ پٰ پپلىپٰيٰ ىٰ ييلىٰ صٰ صطصٰ ضٰ ضۻضٰ يٰ ضلضيٰ ضٰ ضۻضٰ ضٰ ضۻضٰ چٰ چلچچٰ سٰ سلسٰ شٰ ششٰ بٰ بنبٰ بپٰ ببٰ پٰ پپٰ ىٰ ششٰ	G,O,T
		1=Large XeTeX: "Harmattan/GR:Superscript Alef=Large"	ىٰ ڵلٰىٰ يٰ ئيلىٰيٰ ىٰ ئبلىبٰيٰ پٰ پپلىپٰيٰ ىٰ ييلىٰ صٰ صطصٰ ضٰ ضۻضٰ يٰ ضلضيٰ ضٰ ضۻضٰ ضٰ ضۻضٰ چٰ چلچچٰ سٰ سلسٰ شٰ ششٰ بٰ بنبٰ بپٰ ببٰ پٰ پپٰ ىٰ ششٰ	
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	

Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
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"		
Comma (U+060C, U+061B)	cv84	0=Upward		G,O,T
		1=Downward XeTeX: "Harmattan/GR:Comma=Downward"		
Show invisible characters (U+061C, U+200C, U+200D, U+200E, U+200F, U+202A, U+202B, U+202C, U+202D, U+202E, U+2066, U+2067, U+2068, U+2069, U+206C, U+206D)	invs	0=False		G
		1=True XeTeX: "Harmattan/GR:Show invisible characters=True"		
Line spacing		Normal Loose	Allows for adjustment of the default line spacing in the font.	T