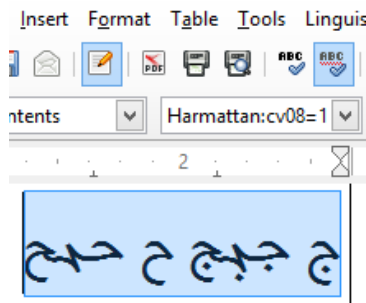


## Font Features for Harmattan

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. **Please note: LibreOffice 6.2 now has a UI for selecting these features in the font menu.**

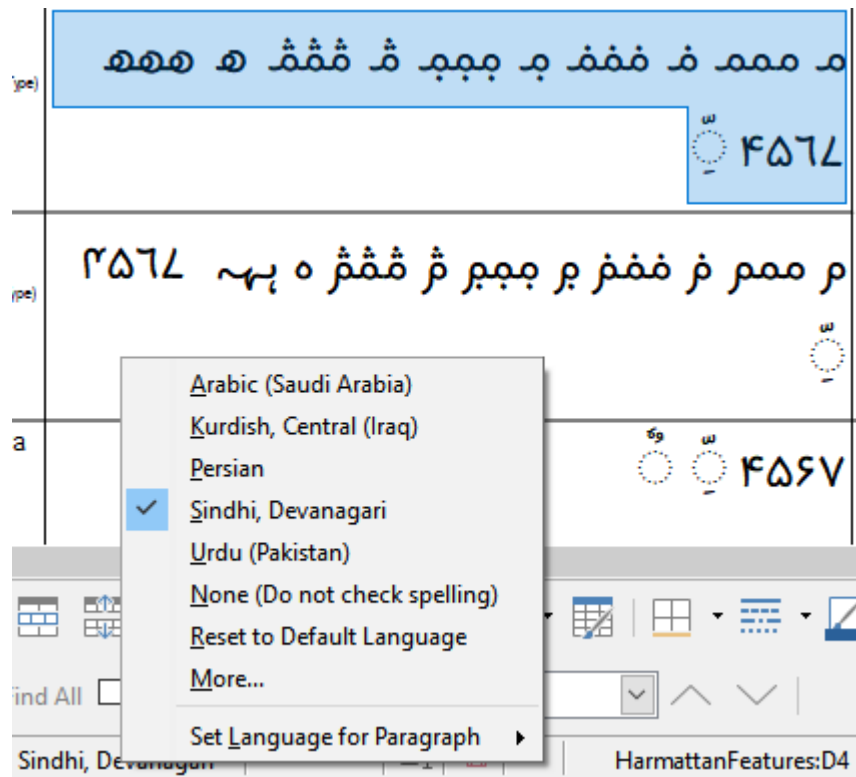
In Mozilla Firefox, with either Graphite or OpenType rendering, features can be accessed using the appropriate CSS markup. A description of how to use the font features in Mozilla Firefox can be found here: [http://scripts.sil.org/cms/scripts/page.php?site\\_id=projects&item\\_id=graphite\\_firefox#cf8a0574](http://scripts.sil.org/cms/scripts/page.php?site_id=projects&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 <sup>1</sup>
Language			میتے یں ڈی پی پئی نی قلم مہریال	G,O,T
Kurdish (Northern)	ku	Language set to Kurdish <small>XeTeX: "Harmattan/GR:language=ku" (Graphite) XeTeX: "Harmattan:language=ku" (OpenType) HTML: lang="ku"</small>	جلم دھپپنی مہریال	
Sindhi	sd	Language set to Sindhi <small>XeTeX: "Harmattan/GR:language=sd" (Graphite) XeTeX: "Harmattan:language=sd" (OpenType) HTML: lang="sd"</small>	تیتے تے ڈی پی پئے چلاس دھریال	
Urdu	ur	Language set to Urdu <small>XeTeX: "Harmattan/GR:language=ur" (Graphite) XeTeX: "Harmattan:language=ur" (OpenType) HTML: lang="ur"</small>	میتے یں ڈی پی پئی نی قلم ہ س دھریال	
Dal	cv12	0=Standard  1=Alternate <small>XeTeX: "Scheherazade/GR:Dal=Alternate"</small>	ڑ ر ز س ژ ڙړژسږژرپرشرششص	G,O,T





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
<b>Sad/Dad</b> (U+0635, U+0636, U+069D, U+069E, U+06FB, U+08AF)	cv20	0=Standard	فڦڦ ڦ ڦڦڦ ڦ ڦ ڦڦڦ ڦ ڦ ڦڦڦ ڦ ڦڦڦ	G,O,T
		1=Half XeTeX: "Harmattan/GR:Sad/Dad=Half"	فڦڦ ڦ ڦڦڦ ڦڦ ڦڦڦ ڦڦڦ ڦ ڦ ڦڦڦ ڦڦڦ	
<b>Meem</b> (U+0645, U+0765, U+0766, U+08A7)	cv44	0=Standard	مٽي ري ڙڻي پي پي ڀي ڀي	G,O,T
		1=Sindhi-style XeTeX: "Harmattan/GR:Meem=Sindhi-style"	مٽي ري ڙڻي پي پي پي ڀي	
<b>Heh</b> (U+0647)	cv48	0=Standard	ڦل لام م	G,O,T
		3=Kurdish-style XeTeX: "Harmattan/GR:Heh=Kurdish-style"	ج لام ڙ	
		1=Sindhi-style XeTeX: "Harmattan/GR:Heh=Sindhi-style"	ج لاس ڙ	
		2=Urdu-style XeTeX: "Harmattan/GR:Heh=Urdu-style"	ڦل ه ه س	

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



Feature Name	Feature ID	Feature Setting (top-most in each section is default)	Example	Implementation Notes
			ظ ع آ ظ خ ف ا خ	
Sukun (U+0652)	cv78	0=Closed		G,O,T
		1=Open down <small>XeTeX: "Harmattan/GR:Sukun=Open down"</small>		
		2=Open left <small>XeTeX: "Harmattan/GR:Sukun=Open left"</small>		
End of ayah (U+06DD)	cv80	0=Standard		G,O,T
		1=Simplified A <small>XeTeX: "Harmattan/GR:End of ayah=Simplified A"</small>		
		2=Simplified B <small>XeTeX: "Harmattan/GR:End of ayah=Simplified B"</small>		
Eastern digits (U+06F4, U+06F6, U+06F7)	cv82	0=Standard		G,O,T
		1=Sindhi-style <small>XeTeX: "Harmattan/GR:Eastern digits=Sindhi-style"</small>		
		2=Urdu-style <small>XeTeX: "Harmattan/GR:Eastern digits=Urdu-style"</small>		

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