# **Special rules for rendering Allah**

### Introduction

In certain types of literature, the name *Allah* and words related to this name are given unique rendering. Unicode has a *presentation form* character (U+FDF2 ARABIC LIGATURE ALLAH ISOLATED FORM) that implements this rendering and, while this can work (in some fonts) for the word in isolation, it doesn't help users obtain special rendering in other contexts where it is desired.

The Unicode Standard core specification provides the following warning:

When the formation of the *allah* ligature is desired, the recommended way to represent the word would be *<alef, lam, lam, shadda, superscript alef, heh> <*0627, 0644, 0644, 0651, 0670, 0647>. In non-Arabic languages, other forms of *heh*, such as *heh goal* (U+06C1), may also form the ligature. Extra care should be taken not to form the ligature in the absence of the *shadda* and the *superscript alef,* as the sequences *<alef, lam, lam, heh>* and *<alef, lam, lam, shadda, heh>* exist in Persian and other languages with different meanings or pronunciations, where the formation of the ligature would be incorrect and inappropriate.

Implementers desiring to support the many languages that utilize Arabic script will find it hard to know exactly when the special rendering (or ligature) should be generated and when it should not. This set of rules provides correct results in most situations but permits suppressing the special rendering in cases where it is not desired.

### The rules

A sequence of *lam lam heh* should be rendered with the ligature form if all the following conditions are met:

- 1. One or both of the following are true:
  - the sequence is immediately preceded by an isolate alef
  - o a shadda follows the second lam
- 2. Characters immediately preceding the first *lam*, if any, may have marks.
- 3. The first *lam* may include a *kasra* (0650), but no other marks.
- 4. The shadda may be followed or preceded by either a superscript-alef or a fatha but no other marks.
- 5. The *heh* must be final form and may have marks.

For the purposes of the above rules:

- alef can be any alef-like character, including alef, alef-hamza, alef-hamza-below, alef-madda, alef-wasla, etc.
- heh can be either heh (0647) or heh-goal (06C1)

#### Additional:

- If there is an isolate *alef* but no marks on the second *lam* then *shadda superscript-alef* should be displayed on that *lam*.
- To disable the special rendering, insert a zero-width-joiner (200D) somewhere in the sequence.
- U+FDF2 should always display as if it were initial alef lam lam shadda superscript-alef final heh.

## **Sample results**

Characters	$\rightarrow$	Glyph	Comment
1 + J + J + 0	$\rightarrow$	الله	Ligature is formed (U+0647)
1 + J + J + 0	$\rightarrow$	اللہ	Ligature is formed (U+06C1)
Î + J + J + " + 0	$\rightarrow$	ٱلله	Ligature is formed
1 + J + J + " + ' + 0	$\rightarrow$	اللَّه	Ligature is formed
1+ J + J + " + 1 + 0	$\rightarrow$	الله	Ligature is formed
J + J +" + o	$\rightarrow$	لله	Ligature is formed
J + ZWJ + J + " + o	$\rightarrow$	للّه	Ligature is not formed
J + J + o	$\rightarrow$	لله	Ligature is not formed
J + + J + " + 0 + °	$\rightarrow$	لِلَّهُ	Ligature is formed
1 + J +° + 1 + J + J + " + o +°	$\rightarrow$	الالله	Ligature is formed
ه + "+ ل + ل + ب ب	$\rightarrow$	بِلله	Ligature is formed
ه + '+ "+ ل + ل + ف	$\rightarrow$	فللَّه	Ligature is formed
ه + '+ "+ ل + ل + ف	$\rightarrow$	فللَّه	Ligature is formed
ه + ´+ ل + ل + ف	$\rightarrow$	فلله	Ligature is not formed

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