### Font Embedding

Within a WordprocessingML document, font embedding refers to a process in which the some or all of the [fonts](fonts.docx) used in the current document are included in that document such that it can be guaranteed that they are available for use when the document is subsequently opened.

Embedded [fonts](fonts.docx) are stored in an Embedded Font part within the package.

When a font is embedded within a WordprocessingML document, it shall be obfuscated to prevent it from being used outside of this document. This obfuscation shall be done using the following algorithm:

* Generate a GUID, which will be used and stored as the obfuscation key
* Reverse the order of the bytes in the GUID (i.e. Big Endian ordering)
* XOR the value with the first 32 bytes of the binary: once against 0-15, once against 16-31
* Store the resulting file in the document, and store the obfuscation key in the fontKey attribute

[Example: Consider a font to be embedded whose first 32 bytes are as follows:



To obfuscate this font for storage:

* Generate a GUID (e.g. 001B70DC-AA60-4AD5-90EC-18A0948E1EAE)
* Reverse its order (e.g. AE1E8E94-A018-EC90-D54A-60AADC701B00)
* XOR the GUID with the first and second 16 bytes

The resulting 32 bytes would be:



end example]

To retrieve an obfuscated font for viewing the content of this document only, repeat the procedure above to retrieve the original font.