Subject: Indic Fonts display - UPP
Posted by deep on Fri, 20 May 2022 13:13:19 GMT
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I need Indian scripts display in applications created using UPP.

To display Indian fonts HarfBuzz usage is required.

All Indian scripts are very complex. All these complexcities are handled by HarfBuzz.

We have conjuncts (joined glyph) some times with up to 5 chars and multi tier. Some char sequences are interchanged for display.

Steps required for Display India String.

 Load and init font with HarfBuzz functions Shape the string with HarfBuzz function. This gives correct glyph sequence Get array of Glyph index for the processed string Display string using glyph index to get glyph from font file.

I have modified the TextToSvgPath example to display the Indic fonts.
I am attaching code in next message along with font files.

Looking for hints how to use HarfBuzz pre-processing generically for UPP display.

File Attachments
1) UPP_Devanagari_Display.png, downloaded 384 times

Subject: Re: Indic Fonts display - UPP
Posted by deep on Fri, 20 May 2022 13:16:46 GMT
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File with code and fonts along with info of modification done to files in uppsrc/Draw folder.

File Attachments
1) TextToSVGPath-HarfBuzz.tar.gz, downloaded 174 times

Subject: Re: Indic Fonts display - UPP

Posted by mirek on Mon, 23 May 2022 14:44:54 GMT

This is really helpful as composition is one thing that is missing.

This solves the problem in Linux. Could you try or suggest how to integrate harfbuzz in windows?

I think plugin/harfbuzz should possible; alternatively it might be possible to ship static library maybe with our win32 release?

Subject: Re: Indic Fonts display - UPP
Posted by deep on Tue, 24 May 2022 07:08:34 GMT

Mirek,

I will check it for windows also. Within week.