

Production notes

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Almost all of the characters in Janusz’s article could be typeset with no particular trouble. But two needed special attention: the MUFI character Ꝑ (U+F0001 LATIN SMALL LETTER A WITH STROKE THROUGH TERMINAL) and the visible glyph Ꝑ (U+FE00 VARIATION SELECTOR-1).

For the former: in the Junicode font, U+F0001 is active only with the `ss10` feature enabled. \XeTeX is happy to typeset this:

```
\newfontfamily{\Junicode}
  {JunicodeTwoBeta-Regular.ttf} % for XeTeX
\newcommand{\sgl}[1]
  {{\Junicode\addfontfeature{StylisticSet=10}#1}}
\newcommand{\Fzerosone}{\sgl{...}}
```

However, I wanted to use \LuaTeX to typeset the article, because its support for microtype’s font expansion feature avoided several overfull lines. It turns out (github.com/latex3/luatex/issues/244) that setting the `HarfBuzz` rendering mode is all that’s needed. (This is not the default in `lualatex`, even though it uses the `luahtex` engine.)

% For LuaTeX:

```
\newfontfamily{\Junicode}
  [Renderer=HarfBuzz]{JunicodeTwoBeta-Regular.ttf}
```

For the latter character: ordinarily, Unicode prescribes that variation selectors are invisible, but a few fonts also provide a visible glyph; the one here (found by Janusz) is from `NotoSansManichaean-Regular.ttf`, following what is printed in the Unicode font charts.

\XeTeX could handle this with its `\XeTeXglyph` primitive, which can be used to typeset any glyph from a font, whether mapped or not; in this case, `\XeTeXglyph 58`. (The `ttx` program can be used to discern such internal information in any OpenType or TrueType font.)

For \LuaTeX , however, it was necessary both to use the `Base` rendering mode, and a bit of Lua code which written by Henri Menke (thank you Henri, and thank you search engines), which emulates many \XeTeX primitives in \LuaTeX (gist.github.com/hmenke/6e8ff7c90a5e5df3c4895f60059a2ef7):

```
\ifx\undefined\XeTeXglyph % LuaTeX case:
  \def\XeTeXglyph{%
    \directlua{...}}%
\fi
\newfontfamily{\NSM}
  [Renderer=Base]{NotoSansManichaean-Regular.ttf}
\newcommand{\VSone}{{\NSM\XeTeXglyph58}}
```

Happy Unicode typesetting.

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github.com/TeXUsersGroup