Production notes

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As a reader might imagine, editing this article posed unusual challenges. Grzegorz provided his Ubu Stereo font (discussed in the text) to make it possible.

To process the article, we used X_TL^AT_EX, using filename lookups for the fonts: FreeSerif.otf, DejaVuSans. ttf, Carlito-Regular.ttf, UbuStereo-Regular.ttf. Avoiding system font lookups allows the article to be processed on different systems without having to change their font configurations, highly desirable for *TUGboat*.

For the actual editing, however, it was necessary to make it work on GNU/Linux, so I edited my configuration file ~/.fonts.conf to contain the line:

<dir>/some/directory</dir>

in the <fontconfig> block, where /some/directory is the directory where I saved UbuStereo-Regular.ttf. To my knowledge, all GNU/Linux systems use Fontconfig (fontconfig.org) to find application fonts.

To make Fontconfig know about the new directory:

fc-cache -fv # | sort >/tmp/fc

The commented-out part redirects lots of possibly-butnot-necessarily interesting output from the terminal.

This command shows the names of all the (scalable) monospaced fonts available:

fc-list :spacing=mono:scalable=true family |sort

Sadly, Ubu Stereo does not show up here, as it is technically not monospaced (per the article). Eliminating the **:spacing=mono** selector (i.e., listing all scalable fonts), it does appear.

To use the font in a standard terminal:

xterm -fa 'Ubu Stereo' -fs 19

The font size (-fs) is what worked best on my monitor.

Then I ran GNU Emacs (gnu.org/s/emacs) within the xterm: emacs-nw. Running Emacs directly under X had complications I didn't need to track down. I used the latest Emacs (24.5), compiled from the original source, as Unicode support is one of the most active development areas in Emacs.

I didn't need Grzegorz's Elisp code (referred to in the article), since I could use the existing unitext.

A final lament: I find that **xterm**, **emacs**, and other programs just drop characters from UTF-8-encoded source when input and font do not match perfectly. What happened to "be liberal in what you accept"? Beware ...