Support for the DejaVu TrueType fonts and Math
OpenType font

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December 5, 2017

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1 Introduction

The DejaVu fonts are modifications of the Bitstream Vera fonts designed for greater
coverage of Unicode, as well as providing more styles. The Bitstream Vera family was
limited mainly to the characters in the Basic Latin and Latin-1 Supplement portions of
Unicode, roughly equivalent to ISO/IEC 8859-15, but was released with a license that
permitted changes. The DejaVu fonts project was started with the aim to "provide a
wider range of characters ... while maintaining the original look and feel through the
process of collaborative development". The development of the fonts is done by many
contributors, and is organized through a wiki and a mailing list. [2]

A brief overview:

• Math fonts: TeXGyre DejaVu Math Regular, created by the Polish T\TeX\ User group
  GUST.

• Three text families (regular, italic, bold, bold italic) coming from the original Bit-
  stream Vera.

The package \texttt{dejavu-otf} supports all families with specific optional arguments:
Except math all fonts are preset with Scale=0.92. For this documentation we use instead:

\usepackage[TT={Scale=0.88,FakeStretch=0.9},
            SS={Scale=0.9},
            RM={Scale=0.9},
            DefaultFeatures={Ligatures=TeX}]{dejavu-otf} % support opentype DejaVu fonts

The standard font families \texttt{rm}, \texttt{sf}, and \texttt{tt} can be used as usual for any \LaTeX{} engine. By default the fonts are defined by their symbolic name. As an alternative you can load the package with the option \texttt{usefilenames}.

\usepackage[usefilenames=true,
            TT={Scale=0.88,FakeStretch=0.9},
            SS={Scale=0.9},
            RM={Scale=0.9},
            DefaultFeatures={Ligatures=TeX}]{dejavu-otf} % supports also opentype math fonts

Then all definitions uses the extension \texttt{.ttf} (roman, sans serif, mono) and \texttt{.otf} (math) for the filenames of the fonts:

DejaVuSans-BoldOblique.ttf
DejaVuSans-Bold.ttf
DejaVuSansCondensed-BoldOblique.ttf
DejaVuSansCondensed-Bold.ttf
DejaVuSansCondensed-Oblique.ttf
DejaVuSansCondensed.ttf
DejaVuSans-ExtraLight.ttf
DejaVuSansMono-BoldOblique.ttf

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<tr>
<td>DefaultFeatures</td>
<td>code</td>
<td>for all font styles</td>
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</table>
The condensed and extra-light versions are defined by \newfontfamily and can be accessed by the macros:

\DejaVuSerifCondensed
\DejaVuSansCondensed
\DejaVuSansLight

2 Text examples

The DejaVu fonts have no Small Caps and no oldstyle figures!

The basic text family is DejaVuSerif, with the usual four variants—regular, italic, bold, and bold italic.

For £45, almost anything can be found floating in fields.

¡THE DAZED BROWN FOX QUICKLY GAVE 12345–67890 JUMPS! — ¿But aren’t Kafka’s Schloß and Æsop’s Œuvres often naïve vis-à-vis the dæmonic phœnix’s official rôle in fluffy soufflés? Sphinx of black quartz, judge my vow.

For £45, almost anything can be found floating in fields.

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3 Math examples

There is only the regular version of the math font \texttt{mathnormal}. With running XƎLÂTEX it is possible to fake the fonts for a bold version:

\setmathfont{texgyredejavu-math.otf}[AutoFakeBold=1.6,\DejaVuMM@features,version=normal]

Here’s some text. And here’s some math:
\[
\phi(x)=\int_{-\infty}^{x} e^{-x^{2}/2}
\]

And now bold math:
\[
\boldmath\phi(x)=\int_{-\infty}^{x} e^{-x^{2}/2}
\]
\unboldmath

Euro and copyright symbols are available: \texteuro\ \textcopyright.
Here’s some text. And here’s some math:

$$\phi(x) = \int_{-\infty}^{x} e^{-x^2/2}$$

And now bold math:

$$\phi(x) = \int_{-\infty}^{x} e^{-x^2/2}$$

Euro and copyright symbols are available: € ©.

$$f(x) = 13 \int f(x) = 13 \int$$

### 4 Closing

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### References


