Support for the DejaVu TrueType fonts and Math OpenType font*

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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 $T_{\!E}X$ User group GUST.
- Three font families (serif, sans, mono) coming from the original Bitstream Vera.

^{*}Thanks to: Reinhard Kotuchs; Lars Madsen; Rolf Niepraschk; Marei Peischl;

1 INTRODUCTION 2

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| 1110 | backade de | Iavu-ULI | SUDDOLIS GI | ii iaiiiiiios witii | | Duonai ai | duments. |
| | | | | | | | |

| name | value | meaning |
|-----------------|------------|-----------------------------------|
| mono | true/false | use only the DejaVu Sans Mono |
| serif | true/false | use only the DejaVu Serif |
| sans | true/false | use only the DejaVu Sans |
| math | true/false | use only the TEX Gyre DejaVu Math |
| RM | code | options for DejaVu Serif |
| SS | code | options for DejaVu Sans |
| TT | code | options for DejaVu Sans Mono |
| MM | code | options for TeXGyre DejaVu Math |
| DefaultFeatures | code | for all font styles |

Except math all fonts are preset with Scale=0.92. For this documentation we use instead:

The standard font families rm, sf, and 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 usefilenames.

Then all definitions uses the extension .ttf (roman, sans serif, mono) and .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
DejaVuSansCondensed.ttf
```

DejaVuSansMono-BoldOblique.ttf
DejaVuSansMono-Bold.ttf
DejaVuSansMono-Oblique.ttf
DejaVuSansMono.ttf
DejaVuSans-Oblique.ttf
DejaVuSans.ttf
DejaVuSerif-BoldItalic.ttf
DejaVuSerif-Bold.ttf
DejaVuSerifCondensed-BoldItalic.ttf
DejaVuSerifCondensed-Italic.ttf
DejaVuSerifCondensed-Italic.ttf
DejaVuSerifCondensed.ttf
DejaVuSerif-Italic.ttf
DejaVuSerif-Italic.ttf
DejaVuSerif.ttf

The condensed and extra-light versions are definied 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. iTHE 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. iTHE 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?

DejaVu Serif

DejaVu Serif Italic

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DejaVu Serif Bold

DejaVu Serif BoldItalic

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DejaVu Sans

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DejaVu Sans Italic

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DejaVu Sans Mono

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DejaVu Sans Mono Italic

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DejaVu Serif Condensed

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DejaVu Serif Condensed Italic

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DejaVu Serif Condensed Bold

DejaVu Serif Condensed Bold Italic

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DejaVu Sans Extra Light

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DejaVu Sans Extra Light Italic

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DejaVu Sans Extra Light Bold

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DejaVu Sans Extra Light Bold Italic

3 MATH EXAMPLES 7

3 Math examples

There is only the regular version of the math font \mathnormal. The bold version is faked by the option FakeBold:

```
\setmathfont[\DejaVuMM@features,version=normal]{texgyredejavu-math.otf}
\setmathfont[\DejaVuMM@features,FakeBold=3,version=bold]{texgyredejavu-math.otf}
```

```
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
```

 $f(x)=13\int x^{x}=13 \sinh x$

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:

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

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

Euro and copyright symbols are available: € ©.

4 Closing

The font list of this documentation is:

| name | type | encoding | emb | sub uni | object ID |
|---------------------------|--------------|------------|-----|---------|-----------|
| LKGW0S+DejaVuSerif | CID TrueType | Identity-H | yes | yes yes | 4 0 |
| RGYFML+DejaVuSerif-Bold | CID TrueType | Identity-H | yes | yes yes | 6 0 |
| ADQSZW+DejaVuSerif-Italic | CID TrueType | Identity-H | yes | yes yes | 17 0 |
| QKPHIH+DejaVuSansMono | CID TrueType | Identity-H | yes | yes yes | 19 0 |

REFERENCES 8

| HZBCXM+DejaVuSansMono-Oblique | CID TrueType | Identity-H | yes yes yes | 21 0 | | |
|--|--|--|---|------------------------------------|---|---|
| • | ,, | • | | | | |
| XTNRKQ+DejaVuSerif-BoldItalic | CID TrueType | Identity-H | yes yes yes | | | |
| RDJDXF+DejaVuSans | CID TrueType | Identity-H | yes yes yes | 31 0 | | |
| KFMTYL+DejaVuSans-Oblique | CID TrueType | Identity-H | yes yes yes | 33 0 | | |
| HVEITX+DejaVuSans-Bold | CID TrueType | Identity-H | yes yes yes | 35 0 | | |
| ZCFLWK+DejaVuSans-BoldOblique | CID TrueType | Identity-H | yes yes yes | 37 0 | | |
| QXXGBB+DejaVuSansMono-Bold | CID TrueType | Identity-H | yes yes yes | 42 0 | | |
| CAXNVE+DejaVuSansMono-BoldOblique | CID TrueType | Identity-H | yes yes yes | 44 0 | | |
| WXYBSQ+DejaVuSerifCondensed | CID TrueType | Identity-H | yes yes yes | 46 0 | | |
| RKSNDK+DejaVuSerifCondensed-Italic | CID TrueType | Identity-H | yes yes yes | 48 0 | | |
| MXBDWF+DejaVuSerifCondensed-Bold | CID TrueType | Identity-H | yes yes yes | 50 0 | | |
| KBUOWC+DejaVuSerifCondensed-BoldItal | ic CID TrueType | Identity-H | yes yes yes | 52 | 0 | |
| WXHJNQ+DejaVuSansCondensed | CID TrueType | Identity-H | yes yes yes | 54 0 | | |
| HMLLYK+DejaVuSansCondensed-Oblique | CID TrueType | Identity-H | yes yes yes | 59 0 | | |
| CTCVEE Dede Voice and Consider and Dellid | | | | | | |
| CTSVEE+DejaVuSansCondensed-Bold | CID TrueType | Identity-H | yes yes yes | 61 0 | | |
| QKMWYD+DejaVuSansCondensed-BoldObliq | • • • | Identity-H Identity-H | yes yes yes yes yes yes | | 0 | |
| | • • • | • | | | 0 | |
| QKMWYD+DejaVuSansCondensed-BoldObliq | ue CID TrueType | Identity-H | yes yes yes | 63 | 0 | |
| QKMWYD+DejaVuSansCondensed-BoldObliq KGLISZ+DejaVuSans-ExtraLight | ue CID TrueType CID TrueType | Identity-H Identity-H | yes yes yes yes yes yes | 63 65 0 | Θ | |
| QKMWYD+DejaVuSansCondensed-BoldObliq KGLISZ+DejaVuSans-ExtraLight HPCFBC+DejaVuSans-ExtraLight | ue CID TrueType CID TrueType CID TrueType | Identity-H Identity-H Identity-H | yes yes yes yes yes yes yes yes yes | 63 65 0 67 0 | 0 | |
| QKMWYD+DejaVuSansCondensed-BoldObliq KGLISZ+DejaVuSans-ExtraLight HPCFBC+DejaVuSans-ExtraLight VLWVVT+DejaVuSans-ExtraLight | ue CID TrueType CID TrueType CID TrueType CID TrueType CID TrueType CID TrueType | Identity-H Identity-H Identity-H Identity-H Identity-H | yes yes yes yes yes yes yes yes yes yes yes yes yes yes yes | 63 65 0 67 0 69 0 71 0 | | 0 |

References

- [1] freedesktop.org. Fontconfig. A library for configuring and customizing font access. June 15, 2016. url: https://www.freedesktop.org/wiki/Software/fontconfig/(visited on 03/18/2017).
- [2] Štěpán Roh and other. *DejaVu Fonts*. Sept. 29, 2017. url: https://en.wikipedia.org/wiki/DejaVu_fonts.
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- [4] Wikipedia. *DejaVu*. Oct. 19, 2016. url: https://en.wikipedia.org/wiki/Lucida (visited on 04/03/2017).
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