LATEX Support For T-26 Divine Font

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2013/03/07, v1.0

Abstract

This package provides LaTeX support for T-26 Divine Font. It has everything you need to typeset in this font - except the fonts themselves.

Contents

1	Introduction	2
2	Installation	2
3	Using LATEX Style	2
4	Implementation	3
	4.1 Identification	3
	4.1 Identification	3
	4.3 Fontmap Generation	5
	4.4 Style File	5

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1 Introduction

While such engines as xetex and luatex can use native system fonts, the installation base of pdftex is large enough to justify its continuing support with new fonts.

This package provides support files for the Divine Font Family from T-26. According to the Fontname scheme [1], this corresponds to the family 1sb. We provide the necessary font files—everything but the fonts.

Divine is a calligraphic font designed by Frank Heine and Marilyn Devedjiev in 1995 (http://www.t26.com/fonts/207-Divine) and distributed by T-26 foundry.

2 Installation

First, you need to purchase the font itself: the pfb files are not included in the package. You need just one file divine.pfb If your TEX system is TDS-compliant, install the file into \$TEXMF/fonts/type1/t26/divine. Download http://ctan.tug.org/install/fonts/psfonts/divine.tds.zip and unzip this file in \$TEXMF. Add +fdv.map to the configuration files of dvips, pdftex and your dvi previewer. Run updmap and texhash programs to update the configuration files and file names database.

The style divine.sty provides a number of commands for using the font family (see Section 3)

3 Using LATEX Style

To use the package, add to the preamble of your document the usual incantation $\usepackage[\langle options \rangle] \{divine\}.$

The options scaled=... scales divine fonts to the given scale.

The font can be selected in the usual way:

\fontfamily{fdv}\selectfont

\divinefamily \textdivine Alternatively you can use a declaration \divinefamily and a command \textdivine to set the family.

4 Implementation

4.1 Identification

We start with the declaration who we are. Most .dtx files put driver code in a separate driver file .drv. We roll this code into the main file, and use the pseudo-guard <gobble> for it.

```
1 \(\style\)\NeedsTeXFormat{LaTeX2e}
 2 (*gobble)
 3 \ProvidesFile{divine.dtx}
 4 (/gobble)
 5 (style)\ProvidesClass{divine}
 6 (fdv-drv)\ProvidesFile{fdv-drv.tex}
 7 \( fdv-map \\ ProvidesFile \{ fdv-map.tex \}
 8 [2013/03/07 v1.0 Using T26 Divine Font in LaTeX]
And the driver code:
 9 (*gobble)
10 \documentclass{ltxdoc}
11 \usepackage{booktabs}
12 \usepackage{url}
13 \usepackage[tableposition=top]{caption}
14 \usepackage{hypdoc}
15 \PageIndex
16 \ \texttt{\CodelineIndex}
17 \RecordChanges
18 \EnableCrossrefs
19 \begin{document}
20 \DocInput{divine.dtx}
21 \end{document}
22 (/gobble)
```

4.2 Fontinst Driver

```
This follows [2].

First, the preamble

23 (*fdv-drv)

24 \input fontinst.sty

25 \substitutesilent{bx}{b}

Starting recording transforms:

26 \recordtransforms{fdv-rec.tex}

A bunch of fonts:

27 \transformfont{fdvr8r}{\reencodefont{8r}{\fromafm{divine}}}
```

There is no hook in fontinst.sty for writing our own preamble to .fd file. However, we need to add scaling commands to the preamble. OK, we will patch fontinst:

28 \fontinstcc

```
29 \def\fd_family#1#2#3{
30
      \a_{toks}
      \edef\lowercase_file{\lowercase{
31
        \edef\noexpand\lowercase_file{#1#2.fd}}}
32
      \lowercase_file
33
34
      \open_out{\lowercase_file}
35
      \out_line{\percent_char~Filename:~\lowercase_file}
      \out_line{\percent_char~Created~by:~tex~\jobname}
36
37
      \out_line{\percent_char~Created~using~fontinst~v\fontinstversion}
      \out_line{}
38
      \out_line{\percent_char~THIS~FILE~SHOULD~BE~PUT~IN~A~TEX~INPUTS~
39
         DIRECTORY}
40
41
      \out_line{}
      \out_line{\string\ProvidesFile{\lowercase_file}}
42
      \out_lline{[
43
         \the\year/
44
         \  \in 10>\month0\fi\the\month/
45
         \in 10>\day0\fi\the\day\space
46
47
         Fontinst~v\fontinstversion\space
48
         font~definitions~for~#1/#2.
      ]}
49
50
      \out_line{}
Here is our patch:
      \out_line{\string\expandafter\string\ifx\string\csname\space
51
        FDV@scale\string\endcsname\string\relax}
52
      \out_line{\space\string\let\string\FDV@@scale\string\@empty}
53
      \out_line{\string\else}
54
      \out_line{\space\string\edef\string\FDV@@scale\left_brace_char
55
          s*[\string\csname\space FDV@scale\string\endcsname]
56
57
          \right_brace_char\percent_char}
58
      \out_line{\string\fi\percent_char}
      \out_line{}
End of the patch.
      \out_line{\string\DeclareFontFamily{#1}{#2}{\the\a_toks}}
60
61
         \csname #1-#2\endcsname
62
63
         \out_line{}
         \let\do_shape=\substitute_shape
64
         \csname #1-#2\endcsname
65
         \let\do_shape=\remove_shape
66
         \csname #1-#2\endcsname
67
      }
68
69
      \x_cs\g_let{#1-#2}\x_relax
70
      \out_line{}
      \out_line{\string\endinput}
71
      \close_out{Font~definitions}
72
73 }
74 \normalcc
```

```
Now we install the fonts. First T1
75 \installfonts
76 \times T1}{fdv}{}
77 \installfont{fdvr8t}{fdvr8r,newlatin}{t1}{T1}{fdv}{m}{n}{
78 <->\string\FDV@@scale}
79 \endinstallfonts
  Then TS1
80 \installfonts
81 \installfamily{TS1}{fdv}{}
82 \installfont{fdvr8c}{fdvr8r,textcomp}{ts1}{TS1}{fdv}{m}{n}{
83 <->\string\FDV@@scale}
84 \endinstallfonts
  And OT1
85 \installfonts
86 \installfamily{OT1}{fdv}{}
<->\string\FDV@@scale}
89 \endinstallfonts
  And the end:
90 \endrecordtransforms
91 \bye
92 (/fdv-drv)
    Fontmap Generation
```

```
This is a standard procedure [2]
93 (*fdv-map)
94 \input finstmsc.sty
95 \resetstr{PSfontsuffix}{.pfb}
96 \adddriver{dvips}{fdv.map}
97 \setminus input fdv-rec.tex
98 \donedrivers
99 \bye
100 (/fdv-map)
```

Style File

The scaling code is from the helvet package:

```
101 \langle *style \rangle
102 \newif\ifFDV@default
103 \FDV@defaultfalse
104 \RequirePackage{keyval}
105 \define@key{FDV}{scaled}[1.00]{%
106 \def\FDV@scale{#1}}
107 \def\ProcessOptionsWithKV#1{%
108
    \let\@tempc\relax
    \let\FDV@tempa\@empty
```

```
110
     \ifx\@classoptionslist\relax\else
       \@for\CurrentOption:=\@classoptionslist\do{%
111
112
         \@ifundefined{KV@#1@\CurrentOption}%
         {}%
113
         {%
114
            \edef\FDV@tempa{\FDV@tempa,\CurrentOption,}%
115
116
           \@expandtwoargs\@removeelement\CurrentOption
117
             \verb|\Qunused option list| \\ @unused option list| \\
         }%
118
       }%
119
     \fi
120
     \edef\FDV@tempa{%
121
       \noexpand\setkeys{#1}{%
122
         \FDV@tempa\@ptionlist{\@currname.\@currext}%
123
       }%
124
     }%
125
     \FDV@tempa
126
     \let\CurrentOption\@empty
127
128 }
129 \ProcessOptionsWithKV{FDV}
130 \AtEndOfPackage{%
     131
132 }
   Some new commands:
133 \verb|\DeclareRobustCommand\divinefamily{\fdv}\selectfont|
134 \verb|\DeclareTextFontCommand{\textdivine}{\divinefamily}|
135 \langle / style \rangle
```

References

- [1] Karl Berry. Fontname. Filenames For TEX Fonts, September 2005. http://mirrors.ctan.org/info/fontname.
- [2] Philipp Lehman. The Font Installation Guide, December 2004. http://mirrors.ctan.org/info/Type1fonts/fontinstallationguide.

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	\documentclass 10	${f L}$
\@classoptionslist .	\donedrivers 98	\left 55
110, 111		\let $53, 64, 66,$
\@currext 123	${f E}$	108, 109, 127, 131
\@currname 123	\edef 31, 32, 55, 115, 121	\lowercase \dots 31,
\@empty 53, 109, 127	\else 54, 110	32, 33, 34, 35, 42
\@expandtwoargs 116	\EnableCrossrefs 18	
\@for 111	\end 21	${f M}$
\@ifundefined 112	\endcsname	\month 45
\@ptionlist 123	. 52, 56, 62, 65, 67	NT
\@removeelement 116	\endinput 71	N
\@tempc 108	\endinstallfonts	\NeedsTeXFormat 1
\@unprocessedoptions		\newif 102
	\endrecordtransforms 90	\noexpand 32, 122
\@unusedoptionlist . 117	\expandafter 51	\normalcc 74
-		O
\mathbf{A}	\mathbf{F}	\open 34
\a 30, 60	\fd 29	\out 35, 36,
\adddriver 96	\FDV@@scale	37, 38, 39, 41,
\AtEndOfPackage 130	. 53, 55, 78, 83, 88	42, 43, 50, 51,
	\FDV@defaultfalse . 103	53, 54, 55, 58,
\mathbf{B}	\FDV@scale 106	59, 60, 63, 70, 71
\begin 19	\FDV@tempa \dots 109,	00, 00, 00, 10, 11
\bye 91, 99	115, 121, 123, 126	P
	\fi 45, 46, 58, 120	\PageIndex 15
C	\fontfamily 133	\percent 35,
\close 72	\fontinstcc 28	36, 37, 39, 57, 58
\CodelineIndex 16	\fontinstversion $37, 47$	\ProcessOptionsWithKV
\csname 51, 56, 62, 65, 67	\fromafm 27	107, 129
\CurrentOption 111,		\ProvidesClass 5
112, 115, 116, 127	\mathbf{G}	\ProvidesFile $3, 6, 7, 42$
D	\g 69	
D		${f R}$
\day	I	\RecordChanges 17
\DeclareFontFamily . 60	\ifFDV@default 102	\rcent{record} . 26
\DeclareRobustCommand	\ifnum 45, 46	\reencodefont 27
\Darana = 133	\ifx 51, 110	\relax . 52, 108, 110, 131
\DeclareTextFontCommand	\input 24, 94, 97	\remove 66
	\installfamily 76, 81, 86	\RequirePackage 104
\def 29, 106, 107	\installfont . 77, 82, 87	\resetstr 95
\define@key 105	\installfonts $75, 80, 85$	\right 57
\divinefamily 2, 133, 134	J	ę
\do 64, 66, 111 \DocInput 20	\jobname 36	S \selectfont 133
\DocInput 20	/Jobname 30	/perecriour 199

\setkeys 122	\substitutesilent . 25	${f U}$
\space 46,		\usepackage 11, 12, 13, 14
47, 51, 53, 55, 56	T	X
\string 42, 51, 52, 53, 54, 55, 56, 58,	\textdivine 2, 134	\x 69
, , , , ,	\the $44, 45, 46, 60$	Y
\substitute 64	\transformfont 27	\year 44