LATEX Support For Monotype Imprint Shadow Font

Boris Veytsman*

2012/08/03, v1.0

Abstract

This package provides LaTeX support for the Monotype Imprint Shadow font. It has everything you need to typeset in this font - except the font itself.

Contents

1	Introduc	tion																		2
2	Installat	ion																		2
3	Using I⁴T _E X Style										2									
4	Impleme	ntati	on																	3
	4.1 Iden	tificati	ion .												 					3
	4.1 Ident 4.2 Font	inst D	river									 			 					3
	4.3 Font	map (Genera	ation								 			 					5
	4.4 Style	e File													 					5

^{*}borisv@lk.net, boris@varphi.com

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 Monotype Imprint Shadow font. According to the Fontname scheme [1], this corresponds to the family miih. We provide the necessary font files—everything but the fonts.

2 Installation

First, you need to purchase the fonts themselves: the pfb files are not included in the package. We assume that the pfb file is called ImpriMTSha.pfb. If your TEX system is TDS-compliant, install the this file into \$TEXMFLOCAL/fonts/type1/monotype/imprintmtshadow. Download http://mirrors.ctan.org/install/fonts/psfonts/imprintmtshadow.tds.zip and unzip this file in \$TEXMFLOCAL. Add +miih.map to the configuration files of dvips, pdftex and your dvi previewer. Run texhash and updmap programs to update the configuration files and file names database.

The style imprintmtshadow.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 $\usepackage[\langle options \rangle] \{\userbar{imprintmtshadow}\}.$

The package option scaled ... scales the font to the given scale.

The font can be selected in the usual way, for example

\fontfamily{miih}\selectfont

\imprintmtshadowfamily \textimprintmtshadow

Alternatively you can use a declaration \imprintmtshadowfamily and a command \textimprintmtshadow 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{imprintmtshadow.dtx}
 4 (/gobble)
 5 \(\style\)\ProvidesClass{imprintmtshadow}
 7 \( miih-map \\ ProvidesFile \{ miih-map.tex \} \)
 8 [2012/08/03 v1.0 Using Monotype Imprint Shadow 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{imprintmtshadow.dtx}
21 \end{document}
22 (/gobble)
```

4.2 Fontinst Driver

```
This follows [2].
First, the preamble

23 \*miih-drv\
24 \input fontinst.sty
25 \substitutesilent{bx}{b}
Starting recording transforms:

26 \recordtransforms{miih-rec.tex}

We have only one font:

27 \transformfont{miih8r}{\reencodefont{8r}{\fromafm{ImpriMTSha}}}
```

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
        MIIH@scale\string\endcsname\string\relax}
52
      \out_line{\space\string\let\string\MIIH@@scale\string\@empty}
53
      \out_line{\string\else}
54
      \out_line{\space\string\edef\string\MIIH@@scale\left_brace_char
55
          s*[\string\csname\space MIIH@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
66
         \let\do_shape=\remove_shape
         \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 \installfamily{T1}{miih}{}
77 \installfont{miih8t}{miih8r,newlatin}{t1}{T1}{miih}{m}{n}{
78 <->\string\MIIH@@scale}
79 \endinstallfonts
   Then TS1
80 \installfonts
81 \installfamily{TS1}{miih}{}
82 \installfont{miih8c}{miih8r,textcomp}{ts1}{TS1}{miih}{m}{n}{
83 <->\string\MIIH@@scale}
84 \endinstallfonts
   And OT1
85 \installfonts
86 \installfamily{OT1}{miih}{}
87 \timestall font{miih7t}{miih8r,newlatin}{ot1}{0T1}{miih}{m}{n}{} \\
    <->\string\MIIH@@scale}
89 \endinstallfonts
   And the end:
90 \endrecordtransforms
91 \bye
92 (/miih-drv)
      Fontmap Generation
This is a standard procedure [2]
93 (*miih-map)
94 \input finstmsc.sty
95 \resetstr{PSfontsuffix}{.pfb}
```

4.4 Style File

99 \bye 100 \/miih-map\/

```
The scaling code is from the helvet package:
```

96 \adddriver{dvips}{miih.map}

97 \input miih-rec.tex 98 \donedrivers

```
101 (*style)
102 \RequirePackage{keyval}
103 \define@key{MIIH}{scaled}[1.00]{%
104 \def\MIH@scale{#1}}
105 \def\ProcessOptionsWithKV#1{%
106 \let\@tempc\relax
107 \let\MIIH@tempa\@empty
108 \ifx\@classoptionslist\relax\else
109 \@for\CurrentOption:=\@classoptionslist\do{%
```

```
\@ifundefined{KV@#1@\CurrentOption}%
110
                                      {}%
111
112
                                      {%
                                                \edef\MIIH@tempa{\MIIH@tempa,\CurrentOption,}%
113
                                               \@expandtwoargs\@removeelement\CurrentOption
114
115
                                                      \@unusedoptionlist\@unusedoptionlist
                                      }%
116
117
                             }%
118
                      \fi
                      \edef\MIIH@tempa{%
119
                              \verb|\noexpand\setkeys{#1}{%}|
120
                                      \MIIH@tempa\@ptionlist{\@currname.\@currext}%
121
                             }%
122
                    }%
123
                      \MIIH@tempa
124
                      \let\CurrentOption\@empty
125
126 }
127 \verb|\ProcessOptionsWithKV{MIIH}| \\
128 \AtEndOfPackage{%
                    \let\@unprocessedoptions\relax
130 }
              Some new commands:
131 \ensuremath{\mbox{\sc Normand}\mbox{\sc mainly{\sc miih}\sc electfont}}
132 \verb|\DeclareTextFontCommand{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprintmtshadow}{\textimprint
133 \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	\donedrivers 98	,
\@classoptionslist .	T3	32, 33, 34, 35, 42
	E	М
\@currext 121	\edef 31, 32, 55, 113, 119	
\@currname 121	\else 54, 108	\MIIH@@scale
\Qempty $53, 107, 125$	\EnableCrossrefs 18	. 53, 55, 78, 83, 88
\@expandtwoargs 114	\end 21	\MIIH@scale 104
\@for 109	\endcsname	\MIIH@tempa 107 ,
\@ifundefined 110	52, 56, 62, 65, 67	113, 119, 121, 124
\@ptionlist 121	\endinput 71	\month 45
\@removeelement 114	\endinstallfonts	
\@tempc 106	79, 84, 89	${f N}$
\@unprocessedoptions		\NeedsTeXFormat 1
	\endrecordtransforms 90	\noexpand 32, 120
\@unusedoptionlist . 115	\expandafter 51	\normalcc 74
\ednusedoptioniist . 113	_	
\mathbf{A}	\mathbf{F}	О
\a 30, 60	\fd 29	\open 34
	\fi 45, 46, 58, 118	\out 35, 36,
\addriver 96	\fontfamily 131	37, 38, 39, 41,
\AtEndOfPackage 128	\fontinstcc 28	42, 43, 50, 51,
В	\fontinstversion $37, 47$	53, 54, 55, 58,
_	\fromafm 27	59, 60, 63, 70, 71
\begin 19	(220mazm 11111111111111111111111111111111111	
\begin	G	P
\bye 91, 99	G	P PageIndex 15
\bye 91, 99	G	P \PageIndex 15 \percent 35,
\bye 91, 99 C \close 72	G	P PageIndex 15
C \close	G \g69 I	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108	P \PageIndex 15 \percent 35,
C \close	G \g	P \PageIndex 15 \percent 35,
C \close	G \g	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86	P \PageIndex 15 \percent 35,
C \close	G \g	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86	P \PageIndex 15 \percent 35,
C \close	G \forall finum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85	P \PageIndex 15 \percent 35,
C \close	G \forall finum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85 J \jobname 36	P \PageIndex 15 \percent 35,
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85 J \jobname 36	P \PageIndex
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85 J \jobname 36 L \left 55	P \PageIndex
C \close	G \g 69 I \ifnum 45, 46 \ifx 51, 108 \imprintmtshadowfamily 2, 131, 132 \input 24, 94, 97 \installfamily 76, 81, 86 \installfont 77, 82, 87 \installfonts 75, 80, 85 J \jobname 36	P \PageIndex

\setkeys 120	\substitutesilent . 25	${f U}$
\space 46,		\usepackage 11, 12, 13, 14
47, 51, 53, 55, 56	${f T}$	v
\string 42, 51, 52, 53, 54, 55, 56, 58,	\textimprintmtshadow	\x 69
60, 71, 78, 83, 88	\the $44, 45, 46, 60$	Y
\substitute 64	\transformfont 27	\year 44