

L^AT_EX Support For New Baskerville Fonts From Adobe

Boris Veytsman*

2008/03/20, v1.0c

Abstract

This package provides L^AT_EX support for the New Baskerville fonts from Adobe

Contents

1	Introduction	2
2	Installation	2
3	Implementation	3
3.1	Identification	3
3.2	Fontinst Driver	3
3.3	Fontmap Generation	4
3.4	Style File	5

*borisv@lk.net, boris@varphi.com

Table 1: PFB Files

File	Font
<code>newbb02.pfb</code>	New Baskerville Bold
<code>newbbi56.pfb</code>	New Baskerville Bold Italic
<code>newbi29.pfb</code>	New Baskerville Italic
<code>newbr20.pfb</code>	New Baskerville Roman

1 Introduction

This package provides support files for the New Baskerville fonts from Adobe. According to the Fontname scheme [1] this corresponds to the family `pnb`.

The package is written for the set of fonts currently used by *No Starch Press*, <http://www.nostarch.com>. The copyright statement in the fonts refers to 1985, 1987, 1990. It is possible that other versions of the fonts have slightly different metrics, and package should be changed to accommodate this. To make this easier, I release the package under BSD-style license. This is even more appropriate since most of the files is generated following the great course [2].

The support is limited to T1 and TS1 encoding. No VTeX support files are included.

2 Installation

First, you need to purchase the fonts themselves: the `pfb` files are *not* included in the package. If you got the fonts from *No Starch press*, do not rename the `pfb` files. However, if there are uppercase letters in your file names, downcase them. If you obtained the files from another source, rename the fonts according to Table 1. If your TeX system is TDS-compliant, install the files into `$TEXMF/fonts/type1/adobe/nbaskerv`. Then download <http://ctan.tug.org/install/fonts/psfonts/adobe/nbaskerv.tds.zip> and unzip the file in `$TEXMF`. Add `+pnb.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 included style `nbaskerv.sty` makes New Baskerville your default Roman family.

3 Implementation

3.1 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{nbaskerv.dtx}
4 </gobble>
5 <style>\ProvidesClass{nbaskerv}
6 <pnb - drv>\ProvidesFile{pnb-drv.tex}
7 <pnb - map>\ProvidesFile{pnb-map.tex}
8 [2008/03/20 v1.0c Using New Baskerville font from Adobe in LaTeX]
```

And the driver code:

```
9 <*gobble>
10 \documentclass{ltxdoc}
11 \usepackage{booktabs}
12 \usepackage{url}
13 \usepackage[breaklinks,colorlinks,linkcolor=black,citecolor=black,
14             pagecolor=black,urlcolor=black,hyperindex=false]{hyperref}
15 \PageIndex
16 \CodelineIndex
17 \RecordChanges
18 \EnableCrossrefs
19 \begin{document}
20   \DocInput{nbaskerv.dtx}
21 \end{document}
22 </gobble>
```

3.2 Fontinst Driver

This follows [2].

First, the preamble

```
23 <*pnb - drv>
24 \input fontinst.sty
```

We use bold for bold extended. Also, the fake small for New Baskerville require rather small height:

```
25 \substitutesilent{bx}{b}
26 \setint{smallcapsscale}{750}
27 \setint{slant}{167}
```

Starting recording transforms:

```
28 \recordtransforms{pnb-rec.tex}
```

A bunch of fonts:

```
29 \transformfont{pnbr8r}{\reencodefont{8r}{\fromafm{newbr20}}}
```

```

30 \transformfont{pnbri8r}{\reencodefont{8r}{\fromafm{newbi29}}}
31 \transformfont{pnbb8r}{\reencodefont{8r}{\fromafm{newbb02}}}
32 \transformfont{pnbbi8r}{\reencodefont{8r}{\fromafm{newbbi56}}}

```

Oblique fonts:

```

33 \transformfont{pnbro8r}{\slantfont{\int{slant}}}%
34 \reencodefont{8r}{\fromafm{newbr20}}}
35 \transformfont{pnbb08r}{\slantfont{\int{slant}}}%
36 \reencodefont{8r}{\fromafm{newbb02}}}

```

Now we install the fonts. First T1

```

37 \installfonts
38 \installfamily{T1}{pnb}{}
39 \installfont{pnbr8t}{pnbr8r,newlatin}{t1}{T1}{pnb}{m}{n}{}
40 \installfont{pnbri8t}{pnbri8r,newlatin}{t1}{T1}{pnb}{m}{it}{}
41 \installfont{pnbro8t}{pnbro8r,newlatin}{t1}{T1}{pnb}{m}{sl}{}
42 \installfont{pnbrc8t}{pnbr8r,newlatin}{t1c}{T1}{pnb}{m}{sc}{}
43 \installfont{pnbb8t}{pnbb8r,newlatin}{t1}{T1}{pnb}{b}{n}{}
44 \installfont{pnbbi8t}{pnbbi8r,newlatin}{t1}{T1}{pnb}{b}{it}{}
45 \installfont{pnbb08t}{pnbb08r,newlatin}{t1}{T1}{pnb}{b}{sl}{}
46 \installfont{pnbbc8t}{pnbb8r,newlatin}{t1c}{T1}{pnb}{b}{sc}{}
47 \endinstallfonts

```

And then TS1

```

48 \installfonts
49 \installfamily{TS1}{pnb}{}
50 \installfont{pnbr8c}{pnbr8r,textcomp}{ts1}{TS1}{pnb}{m}{n}{}
51 \installfontas{pnbr8c}{TS1}{pnb}{m}{sc}{}
52 \installfont{pnbro8c}{pnbro8r,textcomp}{ts1}{TS1}{pnb}{m}{sl}{}
53 \installfont{pnbri8c}{pnbri8r,textcomp}{ts1}{TS1}{pnb}{m}{it}{}
54 \installfont{pnbb8c}{pnbb8r,textcomp}{ts1}{TS1}{pnb}{b}{n}{}
55 \installfontas{pnbb8c}{TS1}{pnb}{b}{sc}{}
56 \installfont{pnbb08c}{pnbb08r,textcomp}{ts1}{TS1}{pnb}{b}{sl}{}
57 \installfont{pnbbi8c}{pnbbi8r,textcomp}{ts1}{TS1}{pnb}{b}{it}{}
58 \endinstallfonts

```

And the end:

```

59 \endrecordtransforms
60 \bye
61 </pnb - drv>

```

3.3 Fontmap Generation

This is a standard procedure [2]

```

62 <*pnb - map>
63 \input finstmisc.sty
64 \resetstr{PSfontsuffix}{.pfb}
65 \addriver{dvips}{pnb.map}
66 \input pnb-rec.tex
67 \donedrivers
68 \bye

```

```
69 </pnb – map>
```

3.4 Style File

We just use `pnb` as our default Roman family

```
70 <*style>  
71 \RequirePackage[T1]{fontenc}  
72 \RequirePackage{textcomp}  
73 \renewcommand{\rmdefault}{pnb}  
74 </style>
```

Acknowledgement This package was written for No Starch Press, <http://www.nostarch.com>.

References

- [1] Karl Berry. *Fontname. Filenames For T_EX Fonts*, September 2005. <http://ctan.tug.org/tex-archive/info/fontname>.
- [2] Philipp Lehman. *The Font Installation Guide*, December 2004. <http://www.ctan.org/tex-archive/info/Type1fonts/fontinstallationguide>.

Change History

v1.0		v1.0b	
General: First fully functional version	1	General: Installation changes	1
v1.0a		v1.0c	
General: Documentation changes	1	General: Documentation update	1

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.

A	F	R
<code>\adddriver</code> 65	<code>\fromafm</code> .. 29–32, 34, 36	<code>\RecordChanges</code> 17
B	I	<code>\recordtransforms</code> . 28
<code>\begin</code> 19	<code>\input</code> 24, 63, 66	<code>\reencodefont</code>
<code>\bye</code> 60, 68	<code>\installfamily</code> .. 38, 49 29–32, 34, 36
C	<code>\installfont</code> . 39–46,	<code>\renewcommand</code> 73
<code>\CodelineIndex</code> 16	50, 52–54, 56, 57	<code>\RequirePackage</code> . 71, 72
D	<code>\installfontas</code> .. 51, 55	<code>\resetstr</code> 64
<code>\DocInput</code> 20	<code>\installfonts</code> ... 37, 48	<code>\rmdefault</code> 73
<code>\documentclass</code> 10	<code>\int</code> 33, 35	S
<code>\donedrivers</code> 67	N	<code>\setint</code> 26, 27
E	<code>\NeedsTeXFormat</code> 1	<code>\slantfont</code> 33, 35
<code>\EnableCrossrefs</code> .. 18	P	<code>\substitutesilent</code> . 25
<code>\end</code> 21	<code>\PageIndex</code> 15	T
<code>\endinstallfonts</code> 47, 58	<code>\ProvidesClass</code> 5	<code>\transformfont</code> 29–33, 35
<code>\endrecordtransforms</code> 59	<code>\ProvidesFile</code> ... 3, 6, 7	U
		<code>\usepackage</code> 11–13