

Using Anonymous Pro fonts with LaTeX*

Arash Esbati

2013/12/06

Abstract

This package provides the necessary files to use the monowidth Anonymous Pro fonts with LaTeX. Anonymous Pro is a set of four fonts provided by Mark Simonson under the Open Font License (OFL).

Contents

1	Introduction	2
2	Installation	2
3	Usage	2
4	Glyph Coverage	3
4.1	Regular Font	3
4.2	Italic Font	4
4.3	Bold Font	5
4.4	Bold-Italic Font	6
4.5	Text Companion Symbols	7
4.6	Miscellaneous Symbols	8
4.7	Credits	8
5	Implementation	8
5.1	General Notes	8
5.2	Fontinst-Driver file	9
5.3	Fontinst-Map file	12
5.4	Fontinst-Encoding file for the Symbols	12
5.5	LaTeX-Package	17

*This file has version number v1.0, last revised 2013/12/06.

1 Introduction

Anonymous Pro¹ is a set of fonts provided by Mark Simonson² under the Open Font License (OFL). From his README.txt:

“Anonymous Pro is a family of four fixed-width fonts designed especially with coding in mind. Characters that could be mistaken for one another (0, Ø, I, 1, l, etc.) have distinct shapes to make them easier to tell apart in the context of source code.

Anonymous Pro also features an international, Unicode-based character set, with support for most Western and European Latin-based languages, Greek, and Cyrillic. It also includes special “box drawing” characters for those who need them.

Anonymous Pro is based on an earlier font, Anonymous™, which was my TrueType version of Anonymous 9, a freeware Macintosh bitmap font developed in the mid-’90s by Susan Lesch and David Lamkins. The bitmap version was intended as a more legible alternative to Monaco, the fixed-width Macintosh system font.”

This bundle was mainly formed as “I needed something to play with” while I was reading through the fantastic *“The Font Installation Guide”*³ by Philipp Lehman. Therefore, this bundle is not aiming to provide a complete access to the fonts – Greek and Cyrillic characters are not supported, neither the “box drawing” characters. Only T1 and TS1-encodings are supported, OT1 and LY1 are not.

2 Installation

The installation of fonts for TeX/LaTeX is not fun. The best way is to use MikTeX or TeXlive (my system) and wait until the fonts are distributed for your TeX-installation.

3 Usage

The usage is LaTeX-standard, the behaviour not. Having this in your preamble:

```
\usepackage{AnonymousPro}
```

does not change the monowidth-font of the document.

ttdefault You have to activate the Anonymous Pro font explicitly with the option ‘ttdefault’ or ‘ttdefault=true’. This is the intended behaviour.

scale You can ‘scale’ the font with this option. In this document, I used:

```
\usepackage[scale=0.95,ttdefault]{AnonymousPro}
```

This package does not try to be too smart, and relies only on kvoptions. You have to load fontenc and textcomp yourself, e.g.:

-
1. Copyright © 2009, Mark Simonson (<http://www.ms-studio.com>, mark@marksimonson.com), with Reserved Font Name Anonymous Pro
 2. <http://www.marksimonson.com/fonts/view/anonymous-pro>
 3. <http://www.ctan.org/tex-archive/info/Type1/fonts/fontinstallationguide>

```
\usepackage[T1]{fontenc}
\usepackage{textcomp}
\usepackage[scale=0.98,ttdefault]{AnonymousPro}
```

4 Glyph Coverage

A comprehensive Anonymous Pro specimen⁴ is available with complete showings of all the fonts.

The characters accessible with LaTeX are shown below. Note that some characters are not correct, e.g. the misplaced Ogonek diacritical sign (Ł, ł) or the caron (ǎ). Anonymous Pro provides these characters, but I could not convince fontinst to use the characters directly. Maybe using cyrfinst can cure this.

Fake-Smallcaps of ANONYMOUS PRO are also provided (the only reason is that fontinst can generate them!)

4.1 Regular Font

LATIN CAPITALS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ø Ù Ú Û Ü Ý Þ
 ß à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ø ù ú û ü ý þ ÿ

LATIN LOWERCASE

abcdefghijklmnopqrstuvwxyz
áâãäåäääæøþççċċċd' déèêëēēēēf
hiîïîĩîĩîijĵłłmńňňôôõöøōōøþ
řřšššššst' túúûüüüũũúýðþ

LIGATURES

fi ff fl ffi ij IJ ffl

FIGURES, FRACTIONS, SUPERScript

1234567890 $\frac{1}{2}\frac{1}{4}\frac{3}{4}$ 1 3 2 /

CURRENCY AND FIGURE-RELATED CHARACTERS

[illegible]

4. <http://www.marksimonson.com/assets/content/fonts/AnonymousProSpecimen.pdf>

4.2 Italic Font

LATIN CAPITALS

*A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ø Ù Ú Û Ü Ý Þ ß
                ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯
° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾*

LATIN LOWERCASE

abcdefghijklmnopqrstuvwxyz
 áâãäåääääæǣþçćċċċď' déèêëēēēēēƒ
 ħiııîïĩîĩııĵĵĺmńňňóòôõöøōōōőǽþ
 řřßšššššt' tûüûüüüüüũũũũþ

LIGATURES

$$fi \quad ff \quad fl \quad ffi \quad ij \quad IJ \quad ffl$$

FIGURES, FRACTIONS, SUPERScript

1234567890 $\frac{1}{2}\frac{1}{4}\frac{3}{4}$ 1 3 2 /

CURRENCY AND FIGURE-RELATED CHARACTERS

\$ % & ' (* + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã

PUNCTUATION AND MISCELLANEOUS CHARACTERS

{[(... , ; : ! ? i l & ' " " " " « » < > @ * + # \$ % / \ | ! --- _ . •)]}

Ⓜ Ⓒ Ⓐ Ⓢ Ⓝ Ⓚ Ⓛ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ ⓐ ⓑ ⓓ ⓔ ⓖ ⓗ ⓘ ⓙ ⓚ ⓛ ⓞ ⓟ ⓠ ⓡ ⓢ ⓣ ⓤ ⓥ ⓦ ⓧ ⓨ ⓩ ⓪ ⓫ ⓬ ⓭ ⓮ ⓯ ⓰ ⓱ ⓲ ⓳ ⓴ ⓵ ⓶ ⓷ ⓸ ⓹ ⓺ ⓻ ⓼ ⓽ ⓾ ⓿

4.3 Bold Font

LATIN CAPITALS

**A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Á Â Ã Ä Å Æ Ą Ł Œ Š Č Ĉ Ċ Đ Ð É Ê Ë È Ê Ñ Þ
ı İ Í Î Ï Ĵ Ŀ Ł Ń Ň Ó Ô Õ Ö Ø Ő Ű Ú Ü Ý
Ŕ Ř Ś Ş Ș \$ Š š Ţ ț Ů ú û ü ů Ū Ÿ**

LATIN LOWERCASE

abcdefghijklmnopqrstuvwxyz
 áâãäåääāæǣþçċćčďđ' déèêëēēēēēf
 ħiîïĩîĩîīıjĵĺłńňŋóòōöøõőœþ
 řřßššššt' túûüũüũũũũũűð

LIGATURES

fi ff fl ffi ij IJ ffl

FIGURES, FRACTIONS, SUPERScript

1234567890 $\frac{1}{2}\frac{1}{4}\frac{3}{4}$ 1 3 2 /

CURRENCY AND FIGURE-RELATED CHARACTERS

\$ % & ' (* + , - . / : ; < = > ? [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ÷ ø ù

PUNCTUATION AND MISCELLANEOUS CHARACTERS

{[(... , : ; ! ? i & ' " ' “ ” » « > @ * + # \$ % / \ | | --- _ . •)] }

Ⓜ Ⓒ Ⓢ Ⓟ Ⓣ Ⓡ Ⓝ Ⓛ Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ ⓐ ⓑ ⓔ ⓕ ⓖ ⓗ ⓘ ⓙ ⓚ ⓛ ⓞ ⓟ ⓠ ⓡ ⓢ ⓣ ⓤ ⓥ ⓦ ⓧ ⓨ ⓩ ⓪ ⓫ ⓬ ⓭ ⓮ ⓯ ⓰ ⓱ ⓲ ⓳ ⓴ ⓵ ⓶ ⓷ ⓸ ⓹ ⓺ ⓻ ⓼ ⓽ ⓾ ⓿

4.4 Bold-Italic Font

LATIN CAPITALS

***ABCDEFGHIJKLMNOPQRSTUVWXYZ
ÁÂÃÄÅĀĂĄÆǼǾǞǠǡǢǣǤǥǦǧǨǩǪǫǬǭǮǯǰǱǲǳǴǵǶǷǸǹ
#IÍÎÏĨİıJĴŁŃŇŅÓÔÕÖØǾǿǘǙǚǛǜǝǞǟ***
ŘřŠšŜŝŞşȘșTtÙúÚûÜüŮůÚúŮů

LATIN LOWERCASE

*abcdefghijklmnopqrstuvwxyz
áâãäåääæǻǿȳćċčĉďđéèêëēěēęƒ
ħıİîĩïĩĩīıĵĵĺłmńňŋóòōõöøőōœþ
řŗßšśŝšt'túûüũüüűúýðþ*

LIGATURES

$$fi \quad ff \quad fl \quad ffi \quad ij \quad IJ \quad ffl$$

FIGURES, FRACTIONS, SUPERScript

1234567890 $\frac{1}{2}\frac{1}{4}\frac{3}{4}$ 1 3 2 /

CURRENCY AND FIGURE-RELATED CHARACTERS

\$ % & ' (* + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã

PUNCTUATION AND MISCELLANEOUS CHARACTERS

```
{[(... , : ; ! ? i l & ' " ' ' " " « » < > @ * + # $ % / \ | ! ! --- _ . • )]}
```

🍏🍏^~|◀◆√...↳↻ⓧⒺ%◇~Π♠♠➔|↶_☹_~↵

4.5 Text Companion Symbols

The next table shows the symbols available through textcomp. They are available in **Bold**, *Italic* and ***Bold-Italic***.

\textacutedbl	‘ ’	\textasciicute	´
\textasciibreve	˘	\textasciicaron	ˇ
\textasciidieresis	¨	\textasciigrave	`
\textasciimacron	ˉ	\textasteriskcentered	*
\textbardbl		\textbrokenbar	
\textbullet	•	\textcelsius	°C
\textcent	¢	\textcopyright	©
\textcurrency	¤	\textdaggerdbl	‡
\textdagger	†	\textdegree	°
\textdiv	÷	\textdollar	\$
\texteuro	€	\textflorin	f
\textfractionsolidus	/	\textgravedbl	``
\textinterrobangdown	‡	\textinterrobang	?
\textlbrackdbl	[[\textlnot	¬
\textminus	−	\textmu	μ
\textonehalf	½	\textonequarter	¼
\textonesuperior	¹	\textordfeminine	♀
\textordmasculine	♂	\textparagraph	¶
\textperiodcentered	·	\textperthousand	‰
\textpm	±	\textquotesingle	'
\textrbrackdbl]]	\textregistered	®
\textsection	§	\textsterling	£
\textthreequartersemdash	—	\textthreequarters	¾
\textthreesuperior	³	\texttildelow	~
\texttimes	×	\texttrademark	™
\texttwelveudash	—	\texttwosuperior	²
\textyen	¥		

4.6 Miscellaneous Symbols

Other symbols provided by this package are shown in next table. They are available in **Bold**, *Italic* and ***Bold-Italic***.

\ANPapplelogo	🍏	\ANPappleopen	🍏
\ANPapproxequal	≈	\ANPupArrowHead	^
\ANPupArrowHeadBars	⋈	\ANPback	⬅
\ANPblackdiamond	◆	\ANPcheckmark	✓
\ANPDelta	Δ	\ANPellipsis	...
\ANPendtab	↩	\ANPerasetotheright	➡
\ANPgreatequal	≥	\ANPinsert	↪
\ANPinsertSign	⌘	\ANPintegral	∫
\ANPlessequal	≤	\ANPlozenge	◇
\ANPnotequal	≠	\ANPoptionkey	⌘
\ANPpartialdiff	∂	\ANPpi	Π
\ANPpi	π	\ANPproduct	Π
\ANPshift	⇧	\ANPshiftlock	⌘
\ANPsigma	σ	\ANPsigmaone	ς
\ANPsummation	Σ	\ANPtab	⇧
\ANPReturnSign	↵	\ANPshoulderedOpenBox	⌞
\ANPHelm	👑	\ANPOpenBox	⌞
\ANPverticaltab	⇩		

4.7 Credits

Mark Simonson for making the fonts in the first place and giving me the OK to release the pfb-files

Philipp Lehmann for his “*The Font Installation Guide*”

Fontinst-Team for fontinst

5 Implementation

5.1 General Notes

These files were produced while playing around with fontinst; I do not use Anonymous Pro. But making fonts available for LaTeX is a messy job, and I hope these files are useful to somebody else.

The original font-files are distributed as $\langle .tff \rangle$. I wanted to play with $\langle .afm \rangle$, so I used ttf2pt1⁵ to generate the $\langle .pfb \rangle$ and $\langle .afm \rangle$ files. After running LaTeX on AnonymousPro.ins and having the generated files at hand, I used a trivial Makefile to run fontinst:

```
.PHONY: fonts
fonts:
    tex AnonymousPro-drv.tex
    tex AnonymousPro-map.tex
```

5. <http://ttf2pt1.sourceforge.net/>


```

for filename in *.pl; do pltotf $$filename; done
for filename in *.vpl; do vptovf $$filename; done
rm *.pl *.vpl *.mtx

```

I also used `t1testpage`⁶ to generate an overview of characters per font; mostly to have a match on characters in `<.afm>` files.

5.2 Fontinst-Driver file

We follow Philipp Lehman's *The Font Installation Guide*.

We start as follows:

```

1 <*anp-drv>
2 \input fontinst.sty
3 \needsfontinstversion{1.926}

```

We are installing a monowidth-font. 'AnonymousPro' has ligatures but we will not use them and set `<ligaturing>` to '0'. Note that we also will not set `'\hyphenchar\font=-1'`.

```

4 \setint{monowidth}{1}
5 \setint{ligaturing}{0}
6 \substitutesilent{bx}{b}
7 \substitutesilent{sl}{it}

```

For the sake of completeness we produce 'fake-smallcaps'.

```

8 \setint{smallcapsscale}{800}

```

Record our transformation:

```

9 \recordtransforms{anonymouspro-rec.tex}

```

We have to patch fontinst's `\fd_family` in order to use the `[<scale>]` option. The patch is taken from Boris Veytman's `divine.dtx`⁷.

```

10 \fontinstcc
11 \def\fd_family#1#2#3{
12   \a_toks{#3}
13   \edef\lowercase_file{\lowercase{
14     \edef\noexpand\lowercase_file{#1#2.fd}}}
15   \lowercase_file
16   \open_out{\lowercase_file}
17   \out_line{\percent_char~Filename:~\lowercase_file}
18   \out_line{\percent_char~Created~by:~tex~\jobname}
19   \out_line{\percent_char~Created~using~fontinst~v\fontinstversion}
20   \out_line{}
21   \out_line{\percent_char~THIS~FILE~SHOULD~BE~PUT~IN~A~TEX~INPUTS~
22     DIRECTORY}
23   \out_line{}
24   \out_line{\string\ProvidesFile{\lowercase_file}}
25   \out_lline{[
26     \the\year/
27     \ifnum10>\month0\fi\the\month/
28     \ifnum10>\day0\fi\the\day\space
29     Fontinst~v\fontinstversion\space
30     font~definitions~for~#1/#2.

```

6. <http://www.lcdf.org/type/>

7. <http://www.ctan.org/pkg/divine>

```

31  ]]
32  \out_line{}
33 %% Start Patch
34  \out_line{\string\expandafter\string\ifx\string\csname\space
35    ANP@scale\string\endcsname\string\relax}
36  \out_line{\space\space\string\let\string\ANP@@scale\string\@empty}
37  \out_line{\string\else}
38  \out_line{\space\space\string\edef\string\ANP@@scale\left_brace_char
39    s*[\string\csname\space ANP@scale\string\endcsname]
40    \right_brace_char\percent_char}
41  \out_line{\string\fi\percent_char}
42  \out_line{}
43 %% End Patch
44  \out_line{\string\DeclareFontFamily{#1}{#2}{\the\@_toks}}
45  {
46    \csname #1-#2\endcsname
47    \out_line{}
48    \let\do_shape=\substitute_shape
49    \csname #1-#2\endcsname
50    \let\do_shape=\remove_shape
51    \csname #1-#2\endcsname
52  }
53  \x_cs\g_let{#1-#2}\x_relax
54  \out_line{}
55  \out_line{\string\endinput}
56  \close_out{Font~definitions}
57 }
58 \normalcc

```

We use long names for the fonts.

```

59 \transformfont
60 {AnonymousPro-Regular-base}%
61 {\reencodefont{8r}{\fromafm{AnonymousPro-Regular}}}
62 \transformfont
63 {AnonymousPro-Italic-base}%
64 {\reencodefont{8r}{\fromafm{AnonymousPro-Italic}}}
65 \transformfont
66 {AnonymousPro-Bold-base}%
67 {\reencodefont{8r}{\fromafm{AnonymousPro-Bold}}}
68 \transformfont
69 {AnonymousPro-BoldItalic-base}%
70 {\reencodefont{8r}{\fromafm{AnonymousPro-BoldItalic}}}
71 \transformfont
72 {AnonymousPro-Regular-Symbols-base}%
73 {\reencodefont{anonymouspro-symbols}{\fromafm{AnonymousPro-Regular}}}
74 \transformfont
75 {AnonymousPro-Italic-Symbols-base}%
76 {\reencodefont{anonymouspro-symbols}{\fromafm{AnonymousPro-Italic}}}
77 \transformfont
78 {AnonymousPro-Bold-Symbols-base}%
79 {\reencodefont{anonymouspro-symbols}{\fromafm{AnonymousPro-Bold}}}
80 \transformfont
81 {AnonymousPro-BoldItalic-Symbols-base}%
82 {\reencodefont{anonymouspro-symbols}{\fromafm{AnonymousPro-BoldItalic}}}

```

We offer only ‘T1’ encoding. ‘<->\string\ANP@@scale’ is necessary for the fontinst-patch above.

```

83 \installfonts
84 \installfamily{T1}{AnonymousPro}{}
85 \installfont
86   {AnonymousPro-Regular-t1}%
87   {AnonymousPro-Regular-base,newlatin}{t1}{T1}{AnonymousPro}{m}{n}{<->\string\ANP@@scale}
88 \installfont
89   {AnonymousPro-RegularSC-t1}%
90   {AnonymousPro-Regular-base,newlatin}{t1c}{T1}{AnonymousPro}{m}{sc}{<->\string\ANP@@scale}
91 \installfont
92   {AnonymousPro-Italic-t1}%
93   {AnonymousPro-Italic-base,newlatin}{t1}{T1}{AnonymousPro}{m}{it}{<->\string\ANP@@scale}
94 \installfont
95   {AnonymousPro-Bold-t1}%
96   {AnonymousPro-Bold-base,newlatin}{t1}{T1}{AnonymousPro}{b}{n}{<->\string\ANP@@scale}
97 \installfont
98   {AnonymousPro-BoldSC-t1}%
99   {AnonymousPro-Bold-base,newlatin}{t1c}{T1}{AnonymousPro}{b}{sc}{<->\string\ANP@@scale}
100 \installfont
101   {AnonymousPro-BoldItalic-t1}%
102   {AnonymousPro-BoldItalic-base,newlatin}{t1}{T1}{AnonymousPro}{b}{it}{<->\string\ANP@@scale}
103 \endinstallfonts

```

Now ‘TS1’-encoding. For the ‘fake-smallcaps’ we use the ‘\installfontas’-command.

```

104 \installfonts
105 \installfamily{TS1}{AnonymousPro}{}
106 \installfont
107   {AnonymousPro-Regular-ts1}%
108   {AnonymousPro-Regular-base,textcomp}{ts1}{TS1}{AnonymousPro}{m}{n}{<->\string\ANP@@scale}
109 \installfontas
110   {AnonymousPro-Regular-ts1}%
111   {TS1}{AnonymousPro}{m}{sc}{<->\string\ANP@@scale}
112 \installfont
113   {AnonymousPro-Italic-ts1}%
114   {AnonymousPro-Italic-base,textcomp}{ts1}{TS1}{AnonymousPro}{m}{it}{<->\string\ANP@@scale}
115 \installfont
116   {AnonymousPro-Bold-ts1}%
117   {AnonymousPro-Bold-base,textcomp}{ts1}{TS1}{AnonymousPro}{b}{n}{<->\string\ANP@@scale}
118 \installfontas
119   {AnonymousPro-Bold-ts1}%
120   {TS1}{AnonymousPro}{b}{sc}{<->\string\ANP@@scale}
121 \installfont
122   {AnonymousPro-BoldItalic-ts1}%
123   {AnonymousPro-BoldItalic-base,textcomp}{ts1}{TS1}{AnonymousPro}{b}{it}{<-
>\string\ANP@@scale}
124 \endinstallfonts

```

For the symbols, we have to use a font-specific encoding ‘anonymouspro-symbols.etx’, hence ‘U’:

```

125 \installfonts
126 \installfamily{U}{AnonymousPro}{}
127 \installfont{AnonymousPro-Regular-Symbols-u}%

```

```

128             {AnonymousPro-Regular-Symbols-base}%
129             {anonymouspro-symbols}{U}{AnonymousPro}{m}{n}{<->\string\ANP@@scale}
130
131 \installfont{AnonymousPro-Italic-Symbols-u}%
132             {AnonymousPro-Italic-Symbols-base}%
133             {anonymouspro-symbols}{U}{AnonymousPro}{m}{it}{<->\string\ANP@@scale}
134
135 \installfont{AnonymousPro-Bold-Symbols-u}%
136             {AnonymousPro-Bold-Symbols-base}%
137             {anonymouspro-symbols}{U}{AnonymousPro}{b}{n}{<->\string\ANP@@scale}
138
139 \installfont{AnonymousPro-BoldItalic-Symbols-u}%
140             {AnonymousPro-BoldItalic-Symbols-base}%
141             {anonymouspro-symbols}{U}{AnonymousPro}{b}{it}{<->\string\ANP@@scale}
142
143 \endinstallfonts

```

Close recording and the process:

```

144 \endrecordtransforms
145 \bye
146 </anp-drv>

```

5.3 Fontinst-Map file

Again, straight forward from P. Lehmann:

```

147 <*anp-map>
148 \input finstmisc.sty
149 \resetstr{PSfontsuffix}{.pfb}
150 \adddriver{dvips}{AnonymousPro.map}
151 \input anonymouspro-rec.tex
152 \donedrivers
153 \bye
154 </anp-map>

```

5.4 Fontinst-Encoding file for the Symbols

This is the fun part when making symbols available for LaTeX: one has to make a distinctive encoding file. With `\setslot{<char-name>}`, one tells fontinst which character to use – the char-name must correspond to the name in the .afm-file. With `\nextslot{<number>}`, use can use the character by saying

```

\fontencoding{U}\fontfamily{name}\selectfont \char number

```

```

155 <*anp-sym>
156 %% =====
157 %% @TeX-font-encoding-file{
158 %%     author      = "Arash Esbati",
159 %%     version     = "1.0",
160 %%     date        = "2013-11-29",
161 %%     time        = "16:45:46 +01:00",
162 %%     filename    = "anonymouspro-symbols.etx",
163 %%     email       = "esbati'at'gmx.de",
164 %%     URL         = "",

```

```

165%% checksum = "",
166%% codetable = "ISO/ASCII",
167%% keywords = "encoding, TeX, PostScript",
168%% supported = "yes",
169%% abstract = "This is a custom encoding as a TeX font
170%% encoding file to access various symbols in
171%% the AnonymousPro, for use with the fontinst
172%% utility.
173%% package = "AnonymousPro for LaTeX",
174%% dependencies = "fontinst.sty",
175%% }
176%% =====
177
178 \relax
179
180 \encoding
181
182 \nextslot{0}
183 \setslot{applelogo}
184 \comment{Intended for use with ‘\ANPapplelogo{}}’.}
185 \endsetslot
186
187 \nextslot{1}
188 \setslot{appleopen}
189 \comment{Intended for use with ‘\ANPappleopen{}}’.}
190 \endsetslot
191
192 \nextslot{2}
193 \setslot{approxequal}
194 \comment{Intended for use with ‘\ANPapproxequal{}}’.}
195 \endsetslot
196
197 \nextslot{3}
198 \setslot{back}
199 \comment{Intended for use with ‘\ANPback{}}’.}
200 \endsetslot
201
202 \nextslot{4}
203 \setslot{blackdiamond}
204 \comment{Intended for use with ‘\ANPblackdiamond{}}’.}
205 \endsetslot
206
207 \nextslot{5}
208 \setslot{checkmark}
209 \comment{Intended for use with ‘\ANPcheckmark{}}’.}
210 \endsetslot
211
212 \nextslot{6}
213 \setslot{copy}
214 \comment{Intended for use with ‘\ANPcopy{}}’.}
215 \endsetslot
216
217 \nextslot{7}
218 \setslot{ellipsis}

```

```

219 \comment{Intended for use with ‘\ANPellipsis{}}’.}
220 \endsetslot
221
222 %\nextslot{8}
223 \setslot{endtab}
224 \comment{Intended for use with ‘\ANPendtab{}}’.}
225 \endsetslot
226
227 %\nextslot{9}
228 \setslot{erasetotheright}
229 \comment{Intended for use with ‘\ANPerasetotheright{}}’.}
230 \endsetslot
231
232 %\nextslot{10}
233 \setslot{greatererequal}
234 \comment{Intended for use with ‘\ANPgreatererequal{}}’.}
235 \endsetslot
236
237 %\nextslot{11}
238 \setslot{Hbar}
239 \comment{Intended for use with ‘\ANPHbar{}}’.}
240 \endsetslot
241
242 %\nextslot{12}
243 \setslot{hbar}
244 \comment{Intended for use with ‘\ANPhbar{}}’.}
245 \endsetslot
246
247 %\nextslot{13}
248 \setslot{infinity}
249 \comment{Intended for use with ‘\ANPinfinity{}}’.}
250 \endsetslot
251
252 %\nextslot{14}
253 \setslot{insert}
254 \comment{Intended for use with ‘\ANPinsert{}}’.}
255 \endsetslot
256
257 %\nextslot{15}
258 \setslot{integral}
259 \comment{Intended for use with ‘\ANPintegral{}}’.}
260 \endsetslot
261
262 %\nextslot{16}
263 \setslot{lessequal}
264 \comment{Intended for use with ‘\ANPlessequal{}}’.}
265 \endsetslot
266
267 %\nextslot{17}
268 \setslot{lozenge}
269 \comment{Intended for use with ‘\ANPlozenge{}}’.}
270 \endsetslot
271
272 %\nextslot{18}

```

```

273 \setslot{notequal}
274   \comment{Intended for use with ‘\ANPnotequal{}}’.}
275 \endsetslot
276
277 %\nextslot{19}
278 \setslot{optionkey}
279   \comment{Intended for use with ‘\ANPoptionkey{}}’.}
280 \endsetslot
281
282 %\nextslot{20}
283 \setslot{partialdiff}
284   \comment{Intended for use with ‘\ANPpartialdiff{}}’.}
285 \endsetslot
286
287 %\nextslot{21}
288 \setslot{Pi}
289   \comment{Intended for use with ‘\ANPPi{}}’.}
290 \endsetslot
291
292 %\nextslot{22}
293 \setslot{pi}
294   \comment{Intended for use with ‘\ANPpi{}}’.}
295 \endsetslot
296
297 %\nextslot{23}
298 \setslot{product}
299   \comment{Intended for use with ‘\ANPproduct{}}’.}
300 \endsetslot
301
302 %\nextslot{24}
303 \setslot{shift}
304   \comment{Intended for use with ‘\ANPshift{}}’.}
305 \endsetslot
306
307 %\nextslot{25}
308 \setslot{shiftlock}
309   \comment{Intended for use with ‘\ANPshiftlock{}}’.}
310 \endsetslot
311
312 %\nextslot{26}
313 \setslot{Sigma}
314   \comment{Intended for use with ‘\ANPSigma{}}’.}
315 \endsetslot
316
317 %\nextslot{27}
318 \setslot{sigma}
319   \comment{Intended for use with ‘\ANPsigma{}}’.}
320 \endsetslot
321
322 %\nextslot{28}
323 \setslot{sigma1}
324   \comment{Intended for use with ‘\ANPsigmaone{}}’.}
325 \endsetslot
326

```

```

327%\nextslot{29}
328\setslot{summation}
329  \comment{Intended for use with ‘\ANPsummation{}}’.}
330\endsetslot
331
332%\nextslot{30}
333\setslot{tab}
334  \comment{Intended for use with ‘\ANPtab{}}’.}
335\endsetslot
336
337%\nextslot{31}
338\setslot{uni23ce}
339  \comment{Intended for use with ‘\ANPReturnSign{}}’.}
340\endsetslot
341
342%\nextslot{32}
343\setslot{uni237d}
344  \comment{Intended for use with ‘\ANPShoulderedOpenBox{}}’.}
345\endsetslot
346
347%\nextslot{33}
348\setslot{uni2303}
349  \comment{Intended for use with ‘\ANPUpArrowHead{}}’.}
350\endsetslot
351
352%\nextslot{34}
353\setslot{uni2318}
354  \comment{Intended for use with ‘\ANPInsertSign{}}’.}
355\endsetslot
356
357%\nextslot{35}
358\setslot{uni2324}
359  \comment{Intended for use with ‘\ANPUpArrowHeadBars{}}’.}
360\endsetslot
361
362%\nextslot{36}
363\setslot{uni2388}
364  \comment{Intended for use with ‘\ANPHelm{}}’.}
365\endsetslot
366
367%\nextslot{37}
368\setslot{uni2423}
369  \comment{Intended for use with ‘\ANPOpenBox{}}’.}
370\endsetslot
371
372%\nextslot{38}
373\setslot{uni0394}
374  \comment{Intended for use with ‘\ANPDelta{}}’.}
375\endsetslot
376
377%\nextslot{39}
378\setslot{verticaltab}
379  \comment{Intended for use with ‘\ANPverticaltab{}}’.}
380\endsetslot

```



```

381
382%\nextslot{40}
383\setslot{afii61352}
384 \comment{Intended for use with ‘\ANPNúmeroSign{’}.}
385\endsetslot
386
387\endencoding
388</anp-sym>

```

5.5 LaTeX-Package

```
389<*package>
```

We use Heiko Oberdiek’s kvoptions⁸ for our purposes:

```
390\RequirePackage{kvoptions}
```

We use ANP for name-space:

```

391\SetupKeyvalOptions{%
392 family = ANP, %
393 prefix = ANP@ %
394 }

```

Define the option ‘scale’ and init it to ‘1.0’

```
395\DeclareStringOption[1.0]{scale}
```

Define the option ‘ttdefault’. We default it to ‘false’. The user must activate the font explicitly with ‘ttdefault’ or ‘ttdefault=true’. The idea is to have the flexibility to play with other fonts as well.

```
396\DeclareBoolOption[false]{ttdefault}
```

Process the keyvals:

```
397\ProcessKeyvalOptions*
```

`\ANP@ttdefault` This macro is defined by kvoptions for the ‘ttdefault’-option. This is the effect when activated.

```

398\ifANP@ttdefault
399 \renewcommand{\ttdefault}{AnonymousPro}%
400\fi

```

`\ANP@family` Define our command for the family:

```

401\newcommand\ANP@family{%
402 \fontencoding{U}\fontfamily{AnonymousPro}\selectfont}

```

The symbols follow:

403 \newcommand\ANPapplelogo	{{\ANP@family\char0}}
404 \newcommand\ANPappleopen	{{\ANP@family\char1}}
405 \newcommand\ANPapproxequal	{{\ANP@family\char2}}
406 \newcommand\ANPback	{{\ANP@family\char3}}
407 \newcommand\ANPblackdiamond	{{\ANP@family\char4}}
408 \newcommand\ANPcheckmark	{{\ANP@family\char5}}
409 \newcommand\ANPcopy	{{\ANP@family\char6}}
410 \newcommand\ANPellipsis	{{\ANP@family\char7}}
411 \newcommand\ANPendtab	{{\ANP@family\char8}}
412 \newcommand\ANPerasetotheright	{{\ANP@family\char9}}
413 \newcommand\ANPgreatequal	{{\ANP@family\char10}}

8. <http://www.ctan.org/pkg/kvoptions>

```

414 \newcommand\ANPHbar      {{\ANP@family\char11}}
415 \newcommand\ANPhbar     {{\ANP@family\char12}}
416 \newcommand\ANPinfinity {{\ANP@family\char13}}
417 \newcommand\ANPinsert   {{\ANP@family\char14}}
418 \newcommand\ANPintegral {{\ANP@family\char15}}
419 \newcommand\ANPlessequal {{\ANP@family\char16}}
420 \newcommand\ANPlozenge  {{\ANP@family\char17}}
421 \newcommand\ANPnotequal {{\ANP@family\char18}}
422 \newcommand\ANPoptionkey {{\ANP@family\char19}}
423 \newcommand\ANPpartialdiff {{\ANP@family\char20}}
424 \newcommand\ANPpi       {{\ANP@family\char21}}
425 \newcommand\ANPpi       {{\ANP@family\char22}}
426 \newcommand\ANPproduct  {{\ANP@family\char23}}
427 \newcommand\ANPshift    {{\ANP@family\char24}}
428 \newcommand\ANPshiftlock {{\ANP@family\char25}}
429 \newcommand\ANPSigma    {{\ANP@family\char26}}
430 \newcommand\ANPsigma    {{\ANP@family\char27}}
431 \newcommand\ANPsigmaone  {{\ANP@family\char28}}
432 \newcommand\ANPsummation {{\ANP@family\char29}}
433 \newcommand\ANPtab      {{\ANP@family\char30}}
434 \newcommand\ANPReturnSign {{\ANP@family\char31}}
435 \newcommand\ANPShoulderedOpenBox {{\ANP@family\char32}}
436 \newcommand\ANPUpArrowHead {{\ANP@family\char33}}
437 \newcommand\ANPInsertSign {{\ANP@family\char34}}
438 \newcommand\ANPUpArrowHeadBars {{\ANP@family\char35}}
439 \newcommand\ANPHelm      {{\ANP@family\char36}}
440 \newcommand\ANPOpenBox   {{\ANP@family\char37}}
441 \newcommand\ANPDelta     {{\ANP@family\char38}}
442 \newcommand\ANPverticaltab {{\ANP@family\char39}}
443 \newcommand\ANPNúmeroSign {{\ANP@family\char40}}
444 \end{package}

```

Change History

v1.0
 General: Initial version 1