

MinionPro Support for L^AT_EX

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v2.3a – 2015/01/10

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1 Overview

The MinionPro package provides support for the MinionPro font family from Adobe. You can use these fonts in a \LaTeX document by adding the command

```
\usepackage{MinionPro}
```

to the preamble. This will change both the text font and the math font to MinionPro. If you prefer another math font (such as `eulervm`) use the option `onlytext` as explained in Section 3.

2 Interference with other packages

The MinionPro package automatically loads the following packages: `textcomp`, `amsmath`, `fontaxes` and `MnSymbol` (version 1.4). Options can be passed to these packages by either putting the corresponding `\usepackage` command before `\usepackage{MinionPro}` or by including the options in the `\documentclass` command. The MinionPro package is *not* compatible with `amssymb` and `amsfonts`. Please see also the corresponding section in the `MnSymbol` documentation.

The MinionPro package includes support files for the microtype package (version 1.8 or higher), consult the package's documentation for further details.

There is also a slight incompatibility with the `dcolum` package which expects all figures to have the same width. If you want to use this package you either have to specify the `mathtabular` option (this is the brute force solution, not recommended), or you can use the `\figureversion{tabular}` command to switch to tabular figures in front of every table (much better, but also more work). In addition, `dcolum` sets figures in math mode, hence the choice of math figures (see Section 3) determines if text or lining figures are used.

3 Options

Font selection

The following options specify which version of the fonts you want to use. The default settings are marked with an asterisk*.

<code>smallfamily*</code>	use only regular and bold face
<code>medfamily</code>	use semibold face in addition to <code>smallfamily</code>
<code>fullfamily</code>	use medium face in addition to <code>medfamily</code>
<code>noopticals*</code>	use only the optical size Text
<code>opticals</code>	use the optical sizes Caption, Text, Subhead, and Display
<code>slides</code>	use only the optical size Caption (useful for slides)
<code>normalsize*</code>	adapt optical sizes to the normal font size (10 pt, 11 pt, 12 pt)

nonnormalsize use static settings for the optical sizes

Since MinionPro comes in only four different optical sizes we use a variable mapping from font size to the optical size. This means that, both for 10 pt and 11 pt documents, text set in `\small` size will use the Caption size. Sometimes it might be desirable to turn off this automatism – for instance, if you want to load the MinionPro package before the `\documentclass` command. In these cases you can use the `nonnormalsize` option to do so.

The package also provides a way to only change the text fonts or only the math fonts.

onlytext only change the text fonts
onlymath only change the math fonts

Figure selection

MinionPro offers four different figure versions. A detailed description is given in Section 4. The default version can be selected by the following options:

textosf use text figures in text mode
mathosf use text figures in math mode
osf* use text figures in text and math mode

textlf use lining figures in text mode
mathlf use lining figures in math mode
lf use lining figures in text and math mode

mathtabular use tabular figures in math mode

Calligraphic fonts

These options specify which font is used by the `\mathcal` command.

mnsy* use the calligraphic font from MnSymbol: \mathcal{ABC}
cmsy take the calligraphic symbols from Computer Modern: \mathcal{ABC}
swash use the swash capitals from MinionPro: \mathcal{ABC}
abx use the calligraphic symbols provided by mathabx: \mathcal{ABCabc}
(This font contains also lowercase letters, but it is not quite finished.)

Blackboard bold letters

You can also select different fonts for the `\mathbb` command.

amsbb* use the AMS blackboard font: \mathbb{NZQRC}
fourierbb use the Fourier blackboard font: \mathbb{NZQRC}
lucidabb use the (commercial) Lucida Math blackboard font

Greek letters

The following options specify whether you want to use upright or italic Greek letters in math mode.

<code>mixedgreek*</code>	uppercase Greek is upright, lowercase Greek is italic
<code>italicgreek</code>	all Greek letters are italic
<code>frenchmath</code>	all Greek letters and the uppercase Roman letters are upright

Upright and italic Greek letters are also directly accessible via the commands `\upgamma`, `\itgamma`, `\upGamma`, `\itGamma`, etc.

Miscellaneous options

<code>scale=<factor></code>	scale the font size by <i><factor></i>
<code>minionint</code>	take the integral symbols from MinionPro, not from MnSymbol: \int instead of \int
<code>openg</code>	use <i>g</i> instead of <i>g</i> in math mode.
<code>loosequotes</code>	The quote signs of MinionPro are set rather tight. This can lead to undesirable spacing for apostrophes. The <code>loosequotes</code> option slightly increases the side bearings of quotes. This option requires pdfTeX 1.40 and microtype 2.0. Beware that this option prevents hyphenation of words containing apostrophes. Such words will require explicit hyphenation commands <code>\-</code> .
<code>footnotefigures</code>	use special figures for footnote marks, i.e., <code>example^{6,9}</code> instead of <code>example^{6,9}</code> . This option can only be used if the footnote marks consist <i>solely</i> of figures. Note that if you use one of the KOMA-Script classes, customization of the footnotes via <code>\def footnote</code> before loading this package will be overwritten.

4 Figure selection

MinionPro offers four different figure versions. One can choose between *text figures* (lowercase figures) and *lining figures* (uppercase figures) and one can choose between *proportional* figures (figures with different widths) and *tabular* figures (all figures have the same width, useful mainly for tables).

	text figures	lining figures
proportional	o123456789	0123456789
tabular	o123456789	0123456789

The `\figureversion` command can be used to switch between different figure versions. Possible parameters are:

<code>text, osf</code>	text figures
------------------------	--------------

lining, lf	lining figures
tabular, tab	tabular figures
proportional, prop	proportional figures

Usually it is desirable to set most text with proportional figures and to use tabular figures only in tables and lists. Unfortunately most \LaTeX document classes do not support fonts with several figure versions. Use the package `tabfigures` that patches some common document classes and packages (the standard \LaTeX classes, KOMA-Script, memoir, and amsmath) to use tabular figures at some places.

5 Additional font shapes and symbols

In addition to the normal small caps shape `sc` there is a letterspaced version called `ssc`. It is accessible via the commands `\sscshape` and `\textssc`. In order to use the `ssc` shape throughout your document specify `\renewcommand{\scdefault}{\ssc}` in the preamble of your document.

Swash capitals like ‘*Canadian Mountain Holidays*’ are accessed via the `sw` fontshape and the commands `\swshape` and `\textsw`.

```
sc    THIS IS A SAMPLE TEXT
ssc   THIS IS A SAMPLE TEXT
sw    This is a Sample Text
```

The MinionPro package provides all symbols from the MnSymbol package. Additionally, the following math symbols are available:

\digamma	<code>\digamma</code>	\varkappa	<code>\varkappa</code>	β	<code>\varbeta</code>
\backepsilon	<code>\backepsilon</code>	\varbackepsilon	<code>\varbackepsilon</code>	\hbar	<code>\hbar</code>
\hslash	<code>\hslash</code>	λ	<code>\lambdabar</code>	λ	<code>\lambdaslash</code>
j	<code>\jmath</code>	\eth	<code>\eth</code>	\Bbbk	<code>\Bbbk</code>
\emptyset	<code>\slashedzero</code>	g	<code>\openg</code>		

Small and slanted fractions are fractions with a height matching the font’s body size. These are useful for typesetting, e.g., $\cos(\frac{1}{2}x + \frac{3}{2}y)$ or “ $\frac{1}{12}$ litres of red wine” and can be accessed via

```
\smallfrac{⟨numerator⟩}{⟨denominator⟩}   $\frac{1}{3} \frac{5}{17}$ 
\slantfrac{⟨numerator⟩}{⟨denominator⟩}   $\frac{1}{3} \frac{5}{17}$ 
```

Note that *only* figures can be used for `⟨numerator⟩` and `⟨denominator⟩`.

Ornaments can be accessed via the `pifont` package with the command

```
\Pisymbol{MinionPro-Extra}{⟨number⟩}
```

The available glyphs are listed in the table below. Version 1.000 of the MinionPro font provides only ornaments 100–122.

number	glyph	number	glyph	number	glyph	number	glyph
100	⌘	113	⌘	126	➤	139	◁
101	⌘	114	⌘	127	◁	140	▷
102	⌘	115	⌘	128	➤	141	*
103	⌘	116	⌘	129	◁	142	*
104	⌘	117	⌘	130	➤	143	*
105	⌘	118	⌘	131	◁	144	⊙
106	⌘	119	⌘	132	➤	145	□
107	⌘	120	⌘	133	◁	146	■
108	⌘	121	⌘	134	➤	147	◆
109	⌘	122	⌘	135	◁	148	✓
110	⌘	123	⌘	136	➤	149	□
111	⌘	124	⌘	137	◁	150	☑
112	⌘	125	◁	138	➤		

6 Language support

The following encodings are supported:

Latin	OT1, T1, TS1, LY1, T5
Cyrillic	T2A, T2B, T2C, X2, OT2
Greek	LGR (to be used with babel, including polutonikogreek), LGI (lbycus transliteration scheme)

In order to typeset Greek text with the lbycus transliteration scheme, specify

```
\usepackage[ibycus,⟨otherlanguages⟩]{babel}
```

in the preamble and consult the documentation given in `ibycus-babel.pdf` on CTAN. `\setgreekfontsize` is not supported.

7 Searching for figures or for words containing ligatures in PDF documents

Searching for figures or for words containing ligatures in PDF documents may not be possible depending on the way the PDF file was created. The following table gives an overview of which glyphs may cause problems.

font version	program	problems
1.000	Ghostscript, pre-1.40 pdf \TeX	LF/TOf, non-standard ligatures, swashes
1.001, 2.000	Ghostscript, pre-1.40 pdf \TeX	LF/OsF/TOf, ligatures, swashes, small caps
1.00x	Distiller, dvipdfmx	LF/TOf
1.00x	pdf \TeX 1.40	ok
2.000	Distiller, dvipdfmx, pdf \TeX 1.40	ok

To make figures and ligatures searchable when using pdf \TeX 1.40, you need to enable glyph-to-unicode translation and load the default mapping table:

```
\input glyptounicode
\pdfgentounicode=1
```

See the pdf \TeX manual for details.

8 NFSS classification

Parenthesised combinations are provided via substitutions.

encoding	family	series	shape
OT1, T1, TS1, LY1, T5	MinionPro-OsF, MinionPro-LF, MinionPro-TOf, MinionPro-TLF	m, b (sb, bx), eb	n, it (sl), sw ¹ , sc, scit (scsl, scsw), ssc, sscit (sscs, sscsw)
LGR, LGI, T2A, T2B, T2C, X2, OT2	MinionPro-OsF, MinionPro-LF, MinionPro-TOf, MinionPro-TLF	m, b (sb, bx), eb	n, it (sl)
OML	MinionPro-TOf	m, b (sb, bx), eb	n, it
U	MinionPro-Extra	m, b (sb, bx), eb	n, it (sl)

9 Version history

Version 2.0: Initial Release on CTAN

Version 2.1:

¹via substitution in TS1 encoding

- added package options `onlytext` and `onlymath`
- added package option `loosequotes`
- added package option `openg`
- added package options `normalsize` and `nonnormalsize`
- fixed package option `frenchmath`
- fixed package option `abx`
- added support for pdf_{TEX} 1.4 CMAP inclusion
- update to microtype version 1.8
- added `tabfigures` to automatically handle tabular figures in toc, equation labels, bibliographies, enumerations
- fixed `\t` accent
- fixed `\r` accent in OT1 encoding
- fixed slashed zero in font version 2.000
- fixed arrows in TS1 and U encodings
- fixed LGR and LGI encodings to use φ instead of ϕ
- fixed 'P' in LGI encoding
- added punctuation support in LGI encoding (thanks to Jens Boerstinghaus)
- added symbols `\hslash`, `\lambdabar`, `\lambdaslash`
- fixed side bearings of σ in math mode
- added CODINGSCHEME statements to encoding files
- fixed usage of MnSymbol's "I" in doc.sty's module prefix
- reduce number of raw encodings to five per font

Version 2.2:

- add scale option
- fix typo in microtype hook

Version 2.3:

- `fix2 footnotefigures` option with KOMA classes

Version 2.3a:

- remove³ microtype warning concerning `\j`

10 The main style file

10.1 Options

```

1 \<style>
2 \newif\if@Mn@Text@
3 \newif\if@Mn@Math@
4 \@Mn@Text@true
5 \@Mn@Math@true
6 \RequirePackage{kvoptions}
7 \SetupKeyvalOptions{
8   family = Mn,
9   prefix = Mn@
10 }
```

²based on <http://tex.stackexchange.com/a/54954/11605>

³based on <http://tex.stackexchange.com/a/222471/11605>


```

11 \DeclareVoidOption{onlytext}{\@Mn@Text@true\@Mn@Math@false}
12 \DeclareVoidOption{onlymath}{\@Mn@Text@false\@Mn@Math@true}

```

Font sets

The package MinionPro-FontDef adapts the font definitions to the requested font set (see section 12). So we simply pass on the relevant options including the font scale factor; only MinionPro integrals are handled here in MinionPro.

```

13 \DeclareStringOption[1.]{scale}
14 \newcommand\Mn@minionint@opticals{-NoOpticals}
15 \newcommand\Mn@minionint@bold{-Bold}
16 \DeclareVoidOption{slides}{%
17   \def\Mn@minionint@opticals{-NoOpticals}%
18   \PassOptionsToPackage{slides}{MinionPro-FontDef}}
19 \DeclareVoidOption{noopticals}{%
20   \def\Mn@minionint@opticals{-NoOpticals}%
21   \PassOptionsToPackage{noopticals}{MinionPro-FontDef}}
22 \DeclareVoidOption{opticals}{%
23   \def\Mn@minionint@opticals{}%
24   \PassOptionsToPackage{opticals}{MinionPro-FontDef}}
25 \DeclareVoidOption{smallfamily}{%
26   \def\Mn@minionint@bold{-Bold}%
27   \PassOptionsToPackage{smallfamily}{MinionPro-FontDef}}
28 \DeclareVoidOption{medfamily}{%
29   \def\Mn@minionint@bold{-Semibold}%
30   \PassOptionsToPackage{medfamily}{MinionPro-FontDef}}
31 \DeclareVoidOption{fullfamily}{%
32   \def\Mn@minionint@bold{-Semibold}%
33   \PassOptionsToPackage{fullfamily}{MinionPro-FontDef}}
34 \DeclareVoidOption{normalsize}{%
35   \PassOptionsToPackage{normalsize}{MinionPro-FontDef}}
36 \DeclareVoidOption{nonnormalsize}{%
37   \PassOptionsToPackage{nonnormalsize}{MinionPro-FontDef}}

```

Figure style

```

38 \newcommand\Mn@Text@Fig{OsF}
39 \newcommand\Mn@Math@Fig{OsF}
40 \newcommand\Mn@Text@Family{MinionPro-\Mn@Text@Fig}
41 \newcommand\Mn@Math@Family{MinionPro-\Mn@Math@Fig}
42 \newcommand\Mn@Math@TFamily{MinionPro-T\Mn@Math@Fig}
43 \newcommand\Mn@Math@LetterShape{it}
44 \DeclareVoidOption{textosf}{\def\Mn@Text@Fig{OsF}}
45 \DeclareVoidOption{textlf}{\def\Mn@Text@Fig{LF}}
46 \DeclareVoidOption{mathosf}{\def\Mn@Math@Fig{OsF}}
47 \DeclareVoidOption{mathlf}{\def\Mn@Math@Fig{LF}}
48 \DeclareVoidOption{osf}{\setkeys{Mn}{textosf,mathosf}}
49 \DeclareVoidOption{lf}{\setkeys{Mn}{textlf,mathlf}}
50 \DeclareVoidOption{mathtabular}{\let\Mn@Math@Family\Mn@Math@TFamily}

```

Calligraphic fonts

These hooks are executed once the math versions have been set up.

```
51 \newcommand\Mn@load@cal{}
52 \newcommand\Mn@load@bb{}
53 \newcommand\Mn@load@frak{}
```

Most options are handled by MnSymbol.

```
54 \DeclareVoidOption{mnsy}{
55   \PassOptionsToPackage{mnsy}{MnSymbol}
56   \def\Mn@load@cal{
57     \SetMathAlphabet\mathcal{boldtabular}{OMS}{MnSymbolS}{b}{n}
58   }
59 }
60 \DeclareVoidOption{cmsy}{
61   \PassOptionsToPackage{cmsy}{MnSymbol}
62   \def\Mn@load@cal{
63     \SetMathAlphabet\mathcal{boldtabular}{OMS}{cmsy}{b}{n}
64   }
65 }
66 \DeclareVoidOption{abx}{
67   \PassOptionsToPackage{abx}{MnSymbol}
68 %   \def\Mn@load@cal{
69 %     \SetMathAlphabet\mathcal{boldtabular}{OT1}{mathc}{b}{n}
70 %   }
71 }
72 \DeclareVoidOption{swash}{
73   \def\Mn@load@cal{
74     \DeclareMathAlphabet\mathcal{T1}{\Mn@Math@Family}{m}{sw}
75     \SetMathAlphabet\mathcal{bold}{T1}{\Mn@Math@Family}{eb}{sw}
76     \SetMathAlphabet\mathcal{tabular}{T1}{\Mn@Math@TFamily}{m}{sw}
77     \SetMathAlphabet\mathcal{boldtabular}{T1}{\Mn@Math@TFamily}{eb}{sw}}
78 }
```

Greek letters

`\Mn@greek@Upright`, `\Mn@greek@Mixed`, and `\Mn@greek@Italic` are defined below in section 10.4 before `\Mn@load@greek` is executed.

```
79 \newcommand\Mn@load@greek{\Mn@greek@Mixed}
80 \DeclareVoidOption{frenchmath}{%
81   \def\Mn@load@greek{\Mn@greek@Upright}%
82   \def\Mn@Math@LetterShape{n}}
83 \DeclareVoidOption{mixedgreek}{%
84   \def\Mn@load@greek{\Mn@greek@Mixed}}
85 \DeclareVoidOption{italicgreek}{%
86   \def\Mn@load@greek{\Mn@greek@Italic}}
```

Blackboard bold and fraktur fonts

We have to undefine `\mathfrak` and `\mathbb` before redefining them, because they might be defined in such a way that `\DeclareMathAlphabet` does not recognize them as math alphabets and refuses to overwrite their definitions (e.g., package `eufrak` uses `\newcommand{\mathfrak}{\EuFrak}`).

```
87 \newcommand\Mn@load@amsbb{
88   \let\mathbb\@undefined
89   \let\Bbbk\@undefined
90   \DeclareMathAlphabet\mathbb{U}{msb}{m}{n}
91   \newcommand\Bbbk{\mathbb{\mathchar"717C}}
92 \newcommand\Mn@load@lucidabb{
93   \let\mathbb\@undefined
94   \let\Bbbk\@undefined
95   \DeclareFontFamily{U}{hlcm}{}
96   \DeclareFontShape{U}{hlcm}{m}{n}{<->s*[0.92] hlcra }{}
97   \DeclareMathAlphabet\mathbb{U}{hlcm}{m}{n}
98   \newcommand\Bbbk{\mathbb{k}}
99 \newcommand\Mn@load@fourierbb{
100   \let\mathbb\@undefined
101   \let\Bbbk\@undefined
102   \DeclareFontFamily{U}{futm}{}
103   \DeclareFontShape{U}{futm}{m}{n}{<->s*[0.95] fourier-bb }{}
104   \DeclareMathAlphabet\mathbb{U}{futm}{m}{n}
105   \newcommand\Bbbk{\mathbb{k}}
106 \DeclareVoidOption{amsbb}{\let\Mn@load@bb\Mn@load@amsbb}
107 \DeclareVoidOption{lucidabb}{\let\Mn@load@bb\Mn@load@lucidabb}
108 \DeclareVoidOption{fourierbb}{\let\Mn@load@bb\Mn@load@fourierbb}
```

Integrals

```
109 \newcommand\Mn@load@integrals{}
110 \DeclareVoidOption{minionint}{\def\Mn@load@integrals{\Mn@Decl@Minion@Ints}}
```

Miscellaneous options

Footnote figures, the g and v glyph in math mode, extra spacing for the apostrophe.

```
111 \DeclareVoidOption{footnotefigures}{%
112   \def\@makefnmark{%
113     \begingroup
114     \normalfont
115     \fontfamily{MinionPro-Extra}\fontencoding{U}\selectfont
116     \@thefnmark
117   \endgroup}%
118   \@ifundefined{KOMAClassName}{\deffootnote[1em]{1.5em}{1em}{%
119     \fontfamily{MinionPro-Extra}\fontencoding{U}\selectfont\thefootnotemark}}{}
120 %
121 \newcommand\Mn@Define@Open@g{}
122 \DeclareVoidOption{openg}{%
123   \def\Mn@Define@Open@g{%
```

```

124 \mathcode'g="8000%
125 \DeclareMathSymbol{\Mn@g}{\mathalpha}{letters}{'g}%
126 \begingroup
127 \lccode'\~='\g
128 \lowercase{\gdef~{\ifnum\the\mathgroup=\m@ne \openg \else \Mn@g \fi}}%
129 \endgroup
130 }}
131 %
132 \newcommand\Mn@Define@Round@v{}
133 \DeclareVoidOption{roundv}{%
134 \def\Mn@Define@Round@v{%
135 \mathcode'v="8000%
136 \DeclareMathSymbol{\Mn@v}{\mathalpha}{letters}{'v}%
137 \begingroup
138 \lccode'\~='\v
139 \lowercase{\gdef~{\ifnum\the\mathgroup=\m@ne \upsilon \else \Mn@v \fi}}%
140 \endgroup
141 }}
142 %
143 \newcommand\Mn@Quote@Spacing{}
144 \DeclareVoidOption{loosequotes}{%
145 \def\Mn@Quote@Spacing{\Mn@Quote@Spacing@Loose}}

```

Defaults

```

146 \setkeys{Mn}{amsbb}
147 \ProcessKeyvalOptions{Mn}\relax

```

10.2 Font declarations

```

148 \RequirePackage{MinionPro-FontDef}
149 \@ifpackageloaded{textcomp}{\RequirePackage{textcomp}}
150
151 \if@Mn@Math@
152 \RequirePackage{MnSymbol}[2007/01/21 v1.4]

```

If no fraktur font is loaded then take the Euler font.

```

153 \@ifundefined{mathfrak}{%
154 \RequirePackage{eufrak}%
155 \SetMathAlphabet\EuFrak{boldtabular}{U}{euf}{b}{n}}{}
156 \fi

```

By default, we use **b** for the bold series. If `MinionPro-Semibold` is not available this might internally be mapped to `MinionPro-Bold` (see `MinionPro-FontDef`).

```

157 \if@Mn@Text@
158 \edef\rmdefault{\Mn@Text@Family}
159 \let\ibycusdefault\Mn@Text@Family

```

If a recent version of `microtype` is loaded then we implement an option to increase the side bearings of all quote glyphs.

```

160 \def\Mn@Quote@Spacing@Loose{%
161 \@ifpackageloaded{microtype}{\RequirePackage[kerning=true]{microtype}}

```

```

162 \ifundefined{SetExtraKerning}{\{
163 \let\Mn@Set@Quote@Spacing\SetExtraKerning}
164 % \SetExtraKerning
165 % [ unit = 1em ]
166 % { encoding = {OT1,T1,LGR,U,OT2,T2A,T2B,T2C,T5,X2,LY1},
167 % family = {MinionPro-0sF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
168 % shape = n }
169 % { \textquotedblleft = {30,30}, \textquotedblright = {30,30},
170 % \textquoteleft = {30,30}, \textquoteright = {30,30} }}
171 }
172 \newcommand*\Mn@Set@Quote@Spacing[3][\{
173 \Mn@Quote@Spacing
174 \Mn@Set@Quote@Spacing
175 [ unit = 1em ]
176 { encoding = {OT1,T1,LGR,U,OT2,T2A,T2B,T2C,T5,X2,LY1},
177 family = {MinionPro-0sF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
178 shape = {n,it} }
179 { \textquotedblleft = {30,30}, \textquotedblright = {30,30},
180 \textquoteleft = {30,30}, \textquoteright = {30,30} }
181 \fi

```

Math fonts

Redefine the standard math versions normal and bold.

```

182 \if@Mn@Math@
183 \DeclareSymbolFont{operators} {T1} {\Mn@Math@Family}{m}{n}
184 \DeclareSymbolFont{letters} {OML}{MinionPro-T0sF} {m}{\Mn@Math@LetterShape}
185 \SetSymbolFont{operators}{bold}{T1} {\Mn@Math@Family}{eb}{n}
186 \SetSymbolFont{letters} {bold}{OML}{MinionPro-T0sF} {eb}{\Mn@Math@LetterShape}
187 \DeclareMathAlphabet\mathbf {T1} {\Mn@Math@Family}{eb}{n}
188 \DeclareMathAlphabet\mathit {T1} {\Mn@Math@Family}{m}{it}
189 \SetMathAlphabet\mathit {bold}{T1} {\Mn@Math@Family}{eb}{it}

```

Extra math versions tabular and boldtabular, which use tabular figures instead of proportional ones. These math versions can be useful in tables (cf. section 2).

```

190 \DeclareMathVersion{tabular}
191 \SetSymbolFont{operators}{tabular} {T1} {\Mn@Math@TFamily}{m}{n}
192 \SetSymbolFont{letters} {tabular} {OML}{MinionPro-T0sF} {m}{\Mn@Math@LetterShape}
193 \SetMathAlphabet\mathit {tabular} {T1} {\Mn@Math@TFamily}{m}{it}
194
195 \DeclareMathVersion{boldtabular}
196 \SetSymbolFont{operators}{boldtabular}{T1} {\Mn@Math@TFamily}{eb}{n}
197 \SetSymbolFont{letters} {boldtabular}{OML}{MinionPro-T0sF} {eb}{\Mn@Math@LetterShape}
198 \SetMathAlphabet\mathit {boldtabular}{T1} {\Mn@Math@TFamily}{eb}{it}
199 \DeclareMathAccent{\grave} {\mathalpha}{operators}{0}
200 \DeclareMathAccent{\acute} {\mathalpha}{operators}{1}
201 \DeclareMathAccent{\hat} {\mathalpha}{operators}{2}
202 \DeclareMathAccent{\tilde} {\mathalpha}{operators}{3}
203 \DeclareMathAccent{\ddot} {\mathalpha}{operators}{4}
204 \DeclareMathAccent{\mathring} {\mathalpha}{operators}{6}

```

```

205 \DeclareMathAccent{\check}    {\mathalpha}{operators}{7}
206 \DeclareMathAccent{\breve}    {\mathalpha}{operators}{8}
207 \DeclareMathAccent{\bar}      {\mathalpha}{operators}{9}
208 \DeclareMathAccent{\dot}      {\mathalpha}{operators}{10}

```

Execute the hooks set up above to load the various math alphabets.

```

209 \Mn@load@bb
210 \Mn@load@frak
211 \Mn@load@cal
212 \fi

```

10.3 Font selection

The font selection commands such as `\figureversion`, `\textsw`, and `\textssc` are provided by the package `fontaxes`.

```

213 \RequirePackage{fontaxes}[2005/05/04]

```

We define an additional short hand for compatibility's sake.

```

214 \let\oldstylenums\textfigures

```

10.4 Greek letters

We provide math-mode commands for each Greek letter, both italic and upright. Furthermore, there are three commands to select the default version of the letters (all upright, all italic, or capitals upright and lowercase italic).

While declaring the Greek letters we collect the uppercase and lowercase letters in two lists. (We distinguish them by the first letter of their name.) These lists are then used to select the different versions.

```

215 \if@Mn@Math@
216 \newcommand\Mn@greek@list@upper{}
217 \newcommand\Mn@greek@list@lower{}
218 \let\Mn@greek@list@upper@gobble
219 \let\Mn@greek@list@lower@gobble

```

This macro holds one of the two list names.

```

220 \newcommand\Mn@greek@list{}
221 \newcommand*\Mn@greek@letter[3]{%
222   \expandafter\DeclareMathSymbol
223   \expandafter{\csname it#1\endcsname}{\mathord}{letters}{#2}%
224   \expandafter\DeclareMathSymbol
225   \expandafter{\csname up#1\endcsname}{\mathord}{letters}{#3}%
226   \edef\@tempa{'\@car#1\@nil}%
227   \edef\Mn@greek@list{\expandafter\noexpand\csname
228     Mn@greek@list@\ifnum\uccode\@tempa=\@tempa upper\else lower\fi\endcsname}%
229   \expandafter\edef\Mn@greek@list{\Mn@greek@list,#1}%
230 }

```

We can now declare the Greek letters (left italic, right upright).

```

231 \Mn@greek@letter{Gamma}      {'000}{'200}

```

232	<code>\Mn@greek@letter{Delta}</code>	<code>{'001}{'201}</code>
233	<code>\Mn@greek@letter{Theta}</code>	<code>{'002}{'202}</code>
234	<code>\Mn@greek@letter{Lambda}</code>	<code>{'003}{'203}</code>
235	<code>\Mn@greek@letter{Xi}</code>	<code>{'004}{'204}</code>
236	<code>\Mn@greek@letter{Pi}</code>	<code>{'005}{'205}</code>
237	<code>\Mn@greek@letter{Sigma}</code>	<code>{'006}{'206}</code>
238	<code>\Mn@greek@letter{Upsilon}</code>	<code>{'007}{'207}</code>
239	<code>\Mn@greek@letter{Phi}</code>	<code>{'010}{'210}</code>
240	<code>\Mn@greek@letter{Psi}</code>	<code>{'011}{'211}</code>
241	<code>\Mn@greek@letter{Omega}</code>	<code>{'012}{'212}</code>
242	<code>\Mn@greek@letter{alpha}</code>	<code>{'013}{'213}</code>
243	<code>\Mn@greek@letter{beta}</code>	<code>{'014}{'214}</code>
244	<code>\Mn@greek@letter{gamma}</code>	<code>{'015}{'215}</code>
245	<code>\Mn@greek@letter{delta}</code>	<code>{'016}{'216}</code>
246	<code>\Mn@greek@letter{epsilon}</code>	<code>{'017}{'217}</code>
247	<code>\Mn@greek@letter{zeta}</code>	<code>{'020}{'220}</code>
248	<code>\Mn@greek@letter{eta}</code>	<code>{'021}{'221}</code>
249	<code>\Mn@greek@letter{theta}</code>	<code>{'022}{'222}</code>
250	<code>\Mn@greek@letter{iota}</code>	<code>{'023}{'223}</code>
251	<code>\Mn@greek@letter{kappa}</code>	<code>{'024}{'224}</code>
252	<code>\Mn@greek@letter{lambda}</code>	<code>{'025}{'225}</code>
253	<code>\Mn@greek@letter{mu}</code>	<code>{'026}{'226}</code>
254	<code>\Mn@greek@letter{nu}</code>	<code>{'027}{'227}</code>
255	<code>\Mn@greek@letter{xi}</code>	<code>{'030}{'230}</code>
256	<code>\Mn@greek@letter{pi}</code>	<code>{'031}{'231}</code>
257	<code>\Mn@greek@letter{rho}</code>	<code>{'032}{'232}</code>
258	<code>\Mn@greek@letter{sigma}</code>	<code>{'033}{'233}</code>
259	<code>\Mn@greek@letter{tau}</code>	<code>{'034}{'234}</code>
260	<code>\Mn@greek@letter{upsilon}</code>	<code>{'035}{'235}</code>
261	<code>\Mn@greek@letter{phi}</code>	<code>{'036}{'236}</code>
262	<code>\Mn@greek@letter{chi}</code>	<code>{'037}{'237}</code>
263	<code>\Mn@greek@letter{psi}</code>	<code>{'040}{'240}</code>
264	<code>\Mn@greek@letter{omega}</code>	<code>{'041}{'241}</code>
265	<code>\Mn@greek@letter{varepsilon}</code>	<code>{'042}{'242}</code>
266	<code>\Mn@greek@letter{vartheta}</code>	<code>{'043}{'243}</code>
267	<code>\Mn@greek@letter{varpi}</code>	<code>{'044}{'244}</code>
268	<code>\Mn@greek@letter{varrho}</code>	<code>{'045}{'245}</code>
269	<code>\Mn@greek@letter{varsigma}</code>	<code>{'046}{'246}</code>
270	<code>\Mn@greek@letter{varphi}</code>	<code>{'047}{'247}</code>

Some of the following symbols are not really Greek letters but are treated in the same way.

271	<code>\Mn@greek@letter{varbeta}</code>	<code>{'260}{'250}</code>
272	<code>\Mn@greek@letter{varkappa}</code>	<code>{'261}{'251}</code>
273	<code>\Mn@greek@letter{backepsilon}</code>	<code>{'262}{'252}</code>
274	<code>\Mn@greek@letter{varbackepsilon}</code>	<code>{'263}{'253}</code>
275	<code>\Mn@greek@letter{digamma}</code>	<code>{'264}{'254}</code>
276	<code>\Mn@greek@letter{eth}</code>	<code>{'266}{'256}</code>

Go through a list #2 of Greek letters and \let them be their #1-prefixed variants.

```

277 \newcommand*\Mn@greek@select[2]{%
278   \expandafter\let\expandafter\Mn@greek@list\csname Mn@greek@list@#2\endcsname

```

```

279 \@for\@tempa:=\Mn@greek@list\do{%
280 \expandafter\let\csname\@tempa\expandafter\endcsname
281 \csname#1\@tempa\endcsname
282 }%
283 }
284 \newcommand*\Mn@greek@Upright{%
285 \Mn@greek@select{up}{upper}%
286 \Mn@greek@select{up}{lower}%
287 }
288 \newcommand*\Mn@greek@Italic{%
289 \Mn@greek@select{it}{upper}%
290 \Mn@greek@select{it}{lower}%
291 }
292 \newcommand*\Mn@greek@Mixed{%
293 \Mn@greek@select{up}{upper}%
294 \Mn@greek@select{it}{lower}%
295 }

```

Finally initialise the Greek letters.

```

296 \Mn@load@greek
297 \fi

```

10.5 pdfTeX to-unicode support

Old versions of MinionPro have non-standard glyph names.

```

298 \@ifundefined{pdfglyphtounicode}{%{
299 \pdfglyphtounicode{uniEFD5}{03DD}% uni03DD
300 \pdfglyphtounicode{uniEFED}{02D9}% dotaccent.cap
301 \pdfglyphtounicode{uniEFEE}{02D8}% breve.cap
302 \pdfglyphtounicode{uniEFF1}{02DB}% ogonek.cap
303 \pdfglyphtounicode{uniEFF2}{00B8}% cedilla.cap
304 \pdfglyphtounicode{uniEFF3}{02DA}% ring.cap
305 \pdfglyphtounicode{uniEFF5}{02DC}% tilde.cap
306 \pdfglyphtounicode{uniEFF7}{02C6}% circumflex.cap
307 \pdfglyphtounicode{uniF628}{2030}% perthousand.oldstyle
308 \pdfglyphtounicode{uniF62C}{0028}% parenleft.denominator
309 \pdfglyphtounicode{uniF62D}{0029}% parenright.denominator
310 \pdfglyphtounicode{uniF631}{0028}% parenleft.numerator
311 \pdfglyphtounicode{uniF632}{0029}% parenright.numerator
312 \pdfglyphtounicode{uniF638}{0030}% zero.slash
313 \pdfglyphtounicode{uniF639}{0030}% zero.fitted
314 \pdfglyphtounicode{uniF63A}{0032}% two.fitted
315 \pdfglyphtounicode{uniF63B}{0033}% three.fitted
316 \pdfglyphtounicode{uniF63C}{0034}% four.fitted
317 \pdfglyphtounicode{uniF63D}{0035}% five.fitted
318 \pdfglyphtounicode{uniF63E}{0036}% six.fitted
319 \pdfglyphtounicode{uniF63F}{0037}% seven.fitted
320 \pdfglyphtounicode{uniF640}{0038}% eight.fitted
321 \pdfglyphtounicode{uniF641}{0039}% nine.fitted
322 \pdfglyphtounicode{uniF642}{0025}% percent.oldstyle

```


323 \pdfglyphtounicode{uniF643}{0030}% zero.taboldstyle
 324 \pdfglyphtounicode{uniF644}{0031}% one.taboldstyle
 325 \pdfglyphtounicode{uniF645}{0032}% two.taboldstyle
 326 \pdfglyphtounicode{uniF646}{0033}% three.taboldstyle
 327 \pdfglyphtounicode{uniF647}{0034}% four.taboldstyle
 328 \pdfglyphtounicode{uniF648}{0035}% five.taboldstyle
 329 \pdfglyphtounicode{uniF649}{0036}% six.taboldstyle
 330 \pdfglyphtounicode{uniF64A}{0037}% seven.taboldstyle
 331 \pdfglyphtounicode{uniF64B}{0038}% eight.taboldstyle
 332 \pdfglyphtounicode{uniF64C}{0039}% nine.taboldstyle
 333 \pdfglyphtounicode{uniF64D}{20A1}% colonmonetary.taboldstyle
 334 \pdfglyphtounicode{uniF64E}{20AC}% Euro.taboldstyle
 335 \pdfglyphtounicode{uniF64F}{0192}% florin.taboldstyle
 336 \pdfglyphtounicode{uniF650}{0023}% numbersign.taboldstyle
 337 \pdfglyphtounicode{uniF651}{00A3}% sterling.taboldstyle
 338 \pdfglyphtounicode{uniF652}{00A5}% yen.taboldstyle
 339 \pdfglyphtounicode{uniF653}{0024}% dollar.taboldstyle
 340 \pdfglyphtounicode{uniF654}{00A2}% cent.taboldstyle
 341 \pdfglyphtounicode{uniF655}{0030}% zero.denominator
 342 \pdfglyphtounicode{uniF656}{0031}% one.denominator
 343 \pdfglyphtounicode{uniF657}{0032}% two.denominator
 344 \pdfglyphtounicode{uniF658}{0033}% three.denominator
 345 \pdfglyphtounicode{uniF659}{0034}% four.denominator
 346 \pdfglyphtounicode{uniF65A}{0035}% five.denominator
 347 \pdfglyphtounicode{uniF65B}{0036}% six.denominator
 348 \pdfglyphtounicode{uniF65C}{0037}% seven.denominator
 349 \pdfglyphtounicode{uniF65D}{0038}% eight.denominator
 350 \pdfglyphtounicode{uniF65E}{0039}% nine.denominator
 351 \pdfglyphtounicode{uniF65F}{002C}% comma.denominator
 352 \pdfglyphtounicode{uniF660}{002E}% period.denominator
 353 \pdfglyphtounicode{uniF661}{0030}% zero.numerator
 354 \pdfglyphtounicode{uniF662}{0031}% one.numerator
 355 \pdfglyphtounicode{uniF663}{0032}% two.numerator
 356 \pdfglyphtounicode{uniF664}{0033}% three.numerator
 357 \pdfglyphtounicode{uniF665}{0034}% four.numerator
 358 \pdfglyphtounicode{uniF666}{0035}% five.numerator
 359 \pdfglyphtounicode{uniF667}{0036}% six.numerator
 360 \pdfglyphtounicode{uniF668}{0037}% seven.numerator
 361 \pdfglyphtounicode{uniF669}{0038}% eight.numerator
 362 \pdfglyphtounicode{uniF66A}{0039}% nine.numerator
 363 \pdfglyphtounicode{uniF66B}{002C}% comma.numerator
 364 \pdfglyphtounicode{uniF66C}{002E}% period.numerator
 365 \pdfglyphtounicode{uniF66D}{0103}% abreve.sc
 366 \pdfglyphtounicode{uniF66F}{0105}% aogonek.sc
 367 \pdfglyphtounicode{uniF671}{0107}% cacute.sc
 368 \pdfglyphtounicode{uniF672}{010D}% ccaron.sc
 369 \pdfglyphtounicode{uniF675}{010F}% dcaron.sc
 370 \pdfglyphtounicode{uniF676}{0111}% dcroat.sc
 371 \pdfglyphtounicode{uniF678}{011B}% ecaron.sc
 372 \pdfglyphtounicode{uniF67B}{014B}% eng.sc

```

373 \pdfglyphtounicode{uniF67C}{0119}% eogonek.sc
374 \pdfglyphtounicode{uniF67D}{011F}% gbreve.sc
375 \pdfglyphtounicode{uniF684}{0133}% ij.sc
376 \pdfglyphtounicode{uniF687}{0129}% itilde.sc
377 \pdfglyphtounicode{uniF68A}{013A}% lacute.sc
378 \pdfglyphtounicode{uniF68B}{013E}% lcaron.sc
379 \pdfglyphtounicode{uniF68E}{0144}% nacute.sc
380 \pdfglyphtounicode{uniF68F}{0148}% ncaron.sc
381 \pdfglyphtounicode{uniF692}{0151}% ohungarumlaut.sc
382 \pdfglyphtounicode{uniF695}{0155}% racute.sc
383 \pdfglyphtounicode{uniF696}{0159}% rcaron.sc
384 \pdfglyphtounicode{uniF698}{015B}% sacute.sc
385 \pdfglyphtounicode{uniF699}{015F}% scedilla.sc
386 \pdfglyphtounicode{uniF69D}{0165}% tcaron.sc
387 \pdfglyphtounicode{uniF69E}{0163}% tcommaaccent.sc
388 \pdfglyphtounicode{uniF6A0}{0171}% uhungarumlaut.sc
389 \pdfglyphtounicode{uniF6A3}{016F}% uring.sc
390 \pdfglyphtounicode{uniF6A4}{0169}% utilde.sc
391 \pdfglyphtounicode{uniF6AA}{1EF3}% ygrave.sc
392 \pdfglyphtounicode{uniF6AB}{017A}% zacute.sc
393 \pdfglyphtounicode{uniF6AC}{017C}% zdotaccent.sc
394 \pdfglyphtounicode{uniF6DC}{0031}% one.fitted
395 }

```

10.6 Superior and inferior figures

We define commands to convert numbers to numerator figures and denominator figures.

```

396 \def\@for@tok#1:=#2\do#3{%
397   \expandafter\def\expandafter\@fortmp\expandafter{#2}%
398   \ifx\@fortmp\@empty \else
399     \expandafter\@forloop@tok#2\@nil\@nil\@@#1{#3}%
400   \fi}
401 \def\@forloop@tok#1#2#3\@@#4#5{%
402   \def#4{#1}%
403   \ifx #4\@nnil \else
404     #5%
405     \def#4{#2}%
406     \ifx #4\@nnil \else
407       #5\@iforloop@tok #3\@@#4{#5}%
408     \fi\fi}
409 \def\@iforloop@tok#1#2\@@#3#4{%
410   \def#3{#1}%
411   \ifx #3\@nnil
412     \expandafter\@fornoop
413   \else
414     #4\relax\expandafter\@iforloop@tok
415   \fi
416   #2\@@#3{#4}}
417 %

```

```

418 \newcommand*\Mn@extra@font{%
419   \fontencoding{U}\fontfamily{MinionPro-Extra}\selectfont}
420 \newcommand*\@numerator@fig[1]{\{\Mn@extra@font\@@numerator@fig{#1}\}}
421 \newcommand*\@denominator@fig[1]{\{\Mn@extra@font\@@denominator@fig{#1}\}}
422 \newcommand*\@superior@fig[1]{\{\Mn@extra@font\@@superior@fig{#1}\}}
423 \newcommand*\@inferior@fig[1]{\{\Mn@extra@font\@@inferior@fig{#1}\}}
424 \newcommand*\@@numerator@fig[1]{%
425   \@for@tok\@nf@fig:=#1\do{%
426     \ifcase\@nf@fig
427       \char'00%
428     \or\char'01%
429     \or\char'02%
430     \or\char'03%
431     \or\char'04%
432     \or\char'05%
433     \or\char'06%
434     \or\char'07%
435     \or\char'10%
436     \or\char'11%
437     \else
438       \@latex@error{invalid argument to \string\@@numerator@fig}%
439     \fi
440   }}
441 \newcommand*\@@denominator@fig[1]{%
442   \@for@tok\@nf@fig:=#1\do{%
443     \ifcase\@nf@fig
444       \char'20%
445     \or\char'21%
446     \or\char'22%
447     \or\char'23%
448     \or\char'24%
449     \or\char'25%
450     \or\char'26%
451     \or\char'27%
452     \or\char'30%
453     \or\char'31%
454     \else
455       \@latex@error{invalid argument to \string\@@denominator@fig}%
456     \fi
457   }}
458 \newcommand*\@@superior@fig[1]{%
459   \@for@tok\@nf@fig:=#1\do{%
460     \ifcase\@nf@fig
461       \char'60%
462     \or\char'61%
463     \or\char'62%
464     \or\char'63%
465     \or\char'64%
466     \or\char'65%
467     \or\char'66%

```

```

468 \or\char'67%
469 \or\char'70%
470 \or\char'71%
471 \else
472 \latex@error{invalid argument to \string\@@superior@fig}%
473 \fi
474 }}
475 \newcommand*\@@inferior@fig[1]{%
476 \@for@tok\@nf@fig:=#1\do{%
477 \ifcase\@nf@fig
478 \char'100%
479 \or\char'101%
480 \or\char'102%
481 \or\char'103%
482 \or\char'104%
483 \or\char'105%
484 \or\char'106%
485 \or\char'107%
486 \or\char'110%
487 \or\char'111%
488 \else
489 \latex@error{invalid argument to \string\@@inferior@fig}%
490 \fi
491 }}
\ensure@text switches to text mode, if necessary.
492 \newcommand*\ensure@text[1]{%
493 \ifmmode
494 \Mn@Text@With@MathVersion{#1}%
495 \else
496 #1%
497 \fi}
\smallfrac and \slantfrac assemble numerical fractions.
498 \newcommand*\@smallfrac[2]{%
499 \leavevmode
500 \setbox\@tempboxa
501 \vbox{%
502 \baselineskip\z@skip%
503 \lineskip.25ex%
504 \lineskiplimit-\maxdimen
505 \ialign{\hfil##\hfil\cr
506 \vbox to 2.13ex{\vss\hbox{\@numerator@fig{#1}}\vskip.68ex}\cr
507 \leavevmode\leaders\hrule height 1.1ex depth -1.01ex\hfill\cr
508 \vtop to 1ex{\vbox{\hbox{\@denominator@fig{#2}}\vss}\cr
509 \noalign{\vskip-1.47ex}}}%
510 \dp\@tempboxa=0.49ex%
511 \box\@tempboxa}
512 \newcommand*\@slantfrac[2]{%
513 {\Mn@extra@font\@numerator@fig{#1}\kern-0.05em/\kern-0.06em\@denominator@fig{#2}}}
514 \DeclareRobustCommand*\smallfrac[2]{\ensure@text{\kern0.06em\@smallfrac{#1}{#2}\kern0.09em}}

```

```
515 \DeclareRobustCommand*\slantfrac[2]{\ensure@text{\kern0.06em\@slantfrac{#1}{#2}\kern0.09em}}
```

10.7 Additional symbols

Some symbols missing from MnSymbol can be taken from MinionPro.

```
516 \if@Mn@Math@
517 \let\hbar\undefined
518 \DeclareMathSymbol{\hbar}{\mathord}{letters}{'265}
519 \DeclareMathSymbol{\uphbar}{\mathord}{letters}{'255}
520 \DeclareMathSymbol{\partial}{\mathord}{letters}{'100}
521 \DeclareMathSymbol{\uppartial}{\mathord}{letters}{'300}
522 \DeclareMathSymbol{\ell}{\mathord}{letters}{'140}
523 \DeclareMathSymbol{\upell}{\mathord}{letters}{'340}
524 \DeclareMathSymbol{\slashedzero}{\mathord}{letters}{'257}
525 \DeclareMathSymbol{\upimath}{\mathord}{letters}{'373}
526 \DeclareMathSymbol{\upjmath}{\mathord}{letters}{'374}
527 \DeclareMathSymbol{\varsmallint}{\mathord}{letters}{'376}
528 \DeclareMathSymbol{\openg}{\mathalpha}{letters}{'267}
529 \DeclareRobustCommand\lambdabar{\middlebar\lambda}
530 \DeclareRobustCommand\lambdaslash{\middleslash\lambda}
531 \fi
```

Archaic Greek letters not provided by MinionPro.

```
532 \if@Mn@Text@
533 %\def\Qoppa{\reflectbox{P}}
534 %\def\Sampi{\begingroup\fontfamily{cmr}\fontencoding{LGR}\selectfont\char23\endgroup}
535 \let\Stigma\stigma
536
537 % fix \r A
538 \DeclareTextCompositeCommand{\r}{OT1}{A}
539 {\leavevmode\setbox\z@\hbox{!}\dimen@ \ht\z@\advance\dimen@-1ex%
540 \ooalign{\hss\raise.67\dimen@\hbox{\char23}\hss\crrc A}}
541
542 \DeclareEncodingSubset{TS1}{MinionPro-LF} {1}%
543 \DeclareEncodingSubset{TS1}{MinionPro-TLF} {1}%
544 \DeclareEncodingSubset{TS1}{MinionPro-OsF} {1}%
545 \DeclareEncodingSubset{TS1}{MinionPro-TOsF}{1}%
546 \AtBeginDocument{
547 \UndeclareTextCommand{\textvisiblespace}{T1}%
548 \UndeclareTextCommand{\textcompwordmark}{T1}%
549 \UndeclareTextCommand{\textsterling}{T1}%
550 \UndeclareTextCommand{\j}{T1}%
551 \UndeclareTextCommand{\j}{LY1}%
552 }
553 \fi
```

10.8 Integral symbols

We can also replace the integral signs from MnSymbol by those of MinionPro. The following definitions provide this as an option.

```
554 \if@Mn@Math@
555   \newcommand\Mn@Decl@Minion@Ints{%
```

Replace MnSymbolF by MnSymbolFI.

```
556   \DeclareFontFamily{U}{MnSymbolFI}{%
557   \DeclareFontShape{U}{MnSymbolFI}{m}{it}{%
558     <-6> MnSymbolFI\Mn@minionint@opticals5
559     <6-7> MnSymbolFI\Mn@minionint@opticals6
560     <7-8> MnSymbolFI\Mn@minionint@opticals7
561     <8-9> MnSymbolFI\Mn@minionint@opticals8
562     <9-10> MnSymbolFI\Mn@minionint@opticals9
563     <10-12> MnSymbolFI\Mn@minionint@opticals10
564     <12-> MnSymbolFI\Mn@minionint@opticals12
565   }{}
566   \DeclareFontShape{U}{MnSymbolFI}{b}{it}{%
567     <-6> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals5
568     <6-7> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals6
569     <7-8> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals7
570     <8-9> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals8
571     <9-10> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals9
572     <10-12> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals10
573     <12-> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals12
574   }{}
575   \DeclareSymbolFont{symbols}{U}{MnSymbolFI}{m}{it}
576   \SetSymbolFont{symbols}{bold}{U}{MnSymbolFI}{b}{it}
```

Make the original integral symbols available as \var....

```
577   \let\varint\tint
578   \let\variint\tiint
579   \let\variiint\tiiint
580   \let\variiiiint\tiiiiint
581   \let\varidotsint\tidotsint
582   \let\varlandupint\tlandupint
583   \let\varlanddownint\tlanddownint
584   \let\varstrokedint\tstrokedint
585   \let\varoint\toint
586   \let\varoiint\tioint
587   \let\varrcircclerightint\trcircclerightint
588   \let\varlcircclerightint\tlcircclerightint
589   \let\varrcircleleftint\trcircleleftint
590   \let\varlcircleleftint\tlcircleleftint
591   \let\varsumint\tsumint
```

Replace the symbols with the new integrals.

```
592   \DeclareMathSymbol\tint          \mathop{symbols}{112}
593   \DeclareMathSymbol\tiint         \mathop{symbols}{114}
```

```

594 \DeclareMathSymbol\tiiint \mathop{symbols}{116}
595 \DeclareMathSymbol\tiiiint \mathop{symbols}{118}
596 \DeclareMathSymbol\tidotsint \mathop{symbols}{120}
597 \DeclareMathSymbol\tlandupint \mathop{symbols}{122}
598 \DeclareMathSymbol\tlanddownint \mathop{symbols}{124}
599 \DeclareMathSymbol\tstrokedint \mathop{symbols}{126}
600 \DeclareMathSymbol\toint \mathop{symbols}{128}
601 \DeclareMathSymbol\toiint \mathop{symbols}{130}
602 \DeclareMathSymbol\trcirclerightint \mathop{symbols}{132}
603 \DeclareMathSymbol\tlcirclerightint \mathop{symbols}{134}
604 \DeclareMathSymbol\trcircleleftint \mathop{symbols}{136}
605 \DeclareMathSymbol\tlcircleleftint \mathop{symbols}{138}
606 \DeclareMathSymbol\tsumint \mathop{symbols}{140}
607 \let\intop\tint
608 \let\ointop\toint
609 }
610 \Mn@load@integrals
611 \fi

```

10.9 Open G and Round V support

We can replace the closed g with the open variant g as well as the v with v . The following definitions provide this as an option.

```

612 \if@Mn@Math@
613 \Mn@Define@Open@g
614 \Mn@Define@Round@v
615 \fi

```

10.10 Logos

Correct logos.

```

616 \if@Mn@Text@
617 \def\TeX{T\kern-.1667em\lower.4ex\hbox{E}\kern-.125emX\@}
618 \DeclareRobustCommand{\LaTeX}{L\kern-.32em%
619   {\sbox\z@ T%
620     \vbox to\ht\z@{\hbox{\check@mathfonts
621       \fontsize\sf@size\z@
622       \math@fontsfalse\selectfont
623       A}%
624       \vss}%
625   }%
626   \kern-.15em%
627   \TeX}
628 \fi

```

10.11 AMS

Fix a bug in `amsmath.sty` which does not support math fonts without a skew char.

```

629 \def\macc@set@skewchar#1{%
630   \begingroup
631   \ifnum\mathgroup=\m@ne \let\@tempa\@ne
632   \else
633     \ifnum\skewchar\textfont\mathgroup=\m@ne \let\@tempa\@ne
634     \else \let\@tempa\mathgroup
635   \fi
636 \fi
637 \count@=\skewchar\textfont\@tempa
638 \ifnum\count@=\m@ne
639   \endgroup
640 \def\macc@skewchar{}
641 \else
642   \advance\count@"7100
643 \edef\@tempa{\endgroup
644   \mathchardef\noexpand\macc@skewchar=\number\count@\relax}%
645 \@tempa
646 \fi
647 #1%
648 }

```

Make the changes take effect. This concludes the main style file.

```

649 \if@Mn@Text@
650   \normalfont
651 \fi
652 \end{style}

```

11 Support for character protrusion

The microtype configuration. All four MinionPro families use the same file (cf. section 12). The inheritance tables are taken from microtype.cfg except \j.

```

653 \*mtcfg
654 \DeclareCharacterInheritance
655 { encoding = T1,
656   family = {MinionPro-OsF,MinionPro-LF,MinionPro-TOsF,MinionPro-TLF} }
657 { A = {\‘A,\’A,\^A,\~A,\"A,\r A,\k A,\u A},
658   a = {\‘a,\’a,\^a,\~a,\"a,\r a,\k a,\u a},
659   C = {\‘C,\c C,\v C},
660   c = {\‘c,\c c,\v c},
661   D = {\v D,\DH},
662   d = {\v d,\dj},
663   E = {\‘E,\’E,\^E,\"E,\k E,\v E},
664   e = {\‘e,\’e,\^e,\"e,\k e,\v e},
665   f = {027}, % ff
666   G = {\u G},
667   g = {\u g},
668   I = {\‘I,\’I,\^I,\"I,\.I},
669   i = {\‘i,\’i,\^i,\"i,\i},
670 %   j = {\j},

```



```

671     L = {\L,\l,\v L},
672     l = {\l,\l',\v l},
673     N = {\N,\~N,\v N},
674     n = {\n,\~n,\v n},
675     O = {\O,\O',\O,\^O,\~O,\O,\H O},
676     o = {\o,\o',\o,\^o,\~o,\o,\H o},
677     R = {\R,\v R},
678     r = {\r,\v r},
679     S = {\S,\c S,\v S,\SS},
680     s = {\s,\c s,\v s},
681     T = {\c T,\v T},
682     t = {\c t,\v t},
683     U = {\U,\U',\U,\^U,\H U,\r U},
684     u = {\u,\u',\u,\^u,\H u,\r u},
685     Y = {\Y,\Y'},
686     y = {\y,\y'},
687     Z = {\Z,\Z,\v Z},
688     z = {\z,\z,\v z}
689 }
690 \SetProtrusion
691 [ name      = MinionPro-OT1-Roman ]
692 { encoding = OT1,
693   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-TOf,MinionPro-TLF},
694   shape     = n }
695 {
696     A = {40,40},
697     F = { ,60},
698     J = {90, },
699     K = { ,50},
700     L = { ,60},
701     T = {50,50},
702     V = {40,40},
703     W = {30,30},
704     X = {50,50},
705     Y = {50,50},
706     k = { ,60},
707     r = { ,80},
708     t = { ,100},
709     v = {70,70},
710     w = {40,40},
711     x = {60,60},
712     y = {70,70},
713     ! = {70,180},
714     ( = {60,30}, ) = {30,60},
715     [ = {100,160}, ] = {160,100},
716     {,} = {440,700},
717     . = {660,700},
718     : = {400,480},
719     ; = {350,440},
720     - = {700,700},

```

```

721 \textendash      = {390,480}, \textemdash      = {220,270},
722 \textquotedblleft = {380,250}, \textquotedblright = {250,380},
723 \textquoteleft    = {670,450}, \textquoteright   = {450,670},
724 }

725 \SetProtrusion
726 [ name      = MinionPro-T1-Roman,
727   load      = MinionPro-OT1-Roman ]
728 { encoding = T1,
729   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
730   shape     = n }
731 {
732   023 = { ,40}, % fft ligature
733   032 = { ,50}, % ft ligature
734   191 = {30,30}, % Th ligature
735   127 = {620,700}, % hyphen
736   \AE = {40, }, % AE
737   \quotesinglbase = {670,670}, \quotedblbase = {370,370},
738   \guilsinglleft = {500,360}, \guilsinglright = {360,500},
739   \guillemotleft = {320,230}, \guillemotright = {230,320},
740 }

741 \SetProtrusion
742 [ name      = MinionPro-OT1-Italic]
743 { encoding = OT1,
744   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
745   shape     = {it,sl,sw} }
746 {
747   A = {120,50},
748   B = {90,-50},
749   C = {50,-60},
750   D = {70,-30},
751   E = {90,-50},
752   F = {100,-40},
753   G = {50,-60},
754   H = {70,-40},
755   I = {150,-90},
756   J = {250,-130},
757   K = {80,-50},
758   L = {90,60},
759   M = {60,-40},
760   N = {70,-40},
761   O = {70,-30},
762   P = {70,-110},
763   Q = {40,-40},
764   R = {80,-50},
765   S = {70,-70},
766   T = {130, },
767   U = {70,-40},
768   V = {120,30},
769   W = {90,20},

```

```

770     X = {50,  },
771     Y = {160,  },
772     Z = {50,-50},
773     d = {60,-60},
774     f = {  ,-190},
775     027 = {  ,-70}, % ff ligature
776     g = {-70,-70},
777     i = {  ,-110},
778     025 = {  ,-60}, % dotlessi
779     028 = {  ,-60}, % fi ligature
780     030 = {  ,-30}, % ffi ligature
781     j = {-90,-150},
782     p = {-40,  },
783     r = {  ,80},
784     t = {  ,100},
785     v = {90,  },
786     w = {60,10},
787     x = {90,  },
788     ! = {190,40},
789     ( = {90,  },    ) = {90,  },
790     [ = {90,90},    ] = {120,60},
791     {,} = {210,680},
792     . = {640,680},
793     : = {380,430},
794     ; = {  ,430},
795     - = {750,750},
796     \textquoteleft = {690,140}, \textquoteright = {470,230},
797     \textendash = {400,500}, \textemdash = {220,280},
798     \textquotedblleft = {520,130}, \textquotedblright = {520,130},
799 }

800 \SetProtrusion
801 [ name      = MinionPro-T1-Italic,
802   load      = MinionPro-OT1-Italic ]
803 { encoding = T1,
804   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
805   shape     = {it,sl,sw} }
806 {
807     023 = {  ,40}, % fft ligature
808     032 = {  ,50}, % ft ligature
809     191 = {80,30}, % Th ligature
810     127 = {660,750}, % hyphen
811     \AE = {90,-40}, % AE
812     131 = {80,-30}, % Dcaron
813     132 = {70,-40}, % Ecaron
814     156 = {80,-60}, % IJ
815     \OE = {50,-30}, % OE
816     188 = {  ,-80}, % ij
817     184 = {70,70}, % ydieresis
818     253 = {70,70}, % yacute

```

```

819 \quotesinglbase = {220,700}, \quotedblbase = {130,400},
820 \guilsinglleft = {500,180}, \guilsinglright = {350,350},
821 \guillemotleft = {310,110}, \guillemotright = {230,230},
822 }

```

We have no protruding values for small caps yet. The following stubs are unnecessary at the moment, but they are here as a reminder.

```

823 \SetProtrusion
824 [ name = MinionPro-OT1-Smallcaps ]
825 { encoding = OT1,
826   family = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
827   shape = {sc,ssc} }
828 {}

829 \SetProtrusion
830 [ name = MinionPro-T1-Smallcaps,
831   load = MinionPro-OT1-Smallcaps ]
832 { encoding = T1,
833   family = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
834   shape = {sc,ssc} }
835 {}

836 \SetProtrusion
837 [ name = MinionPro-OT1-SmallcapsItalic ]
838 { encoding = OT1,
839   family = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
840   shape = {scit,sscit} }
841 {}

842 \SetProtrusion
843 [ name = MinionPro-T1-SmallcapsItalic,
844   load = MinionPro-OT1-SmallcapsItalic ]
845 { encoding = T1,
846   family = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
847   shape = {scit,sscit} }
848 {}

849 \SetProtrusion
850 [ name = MinionPro-other-Roman ]
851 { encoding = {LGR,U,OT2,T2A,T2B,T2C,T5,X2},
852   family = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
853   shape = n }
854 {
855   ! = {70,180},
856   ( = {60,30}, ) = {30,60},
857   [ = {100,160}, ] = {160,100},
858   {,} = {440,700},
859   . = {660,700},
860   : = {400,480},
861   ; = {350,440},
862   - = {700,700},
863   \textendash = {390,480}, \textemdash = {220,270},
864   \textquotedblleft = {380,250}, \textquotedblright = {250,380},

```

```

865 \textquoteleft = {670,450}, \textquoteright = {450,670},
866 }
867 \SetProtrusion
868 [ name = MinionPro-other-Italic ]
869 { encoding = {LGR,U,OT2,T2A,T2B,T2C,T5,X2},
870 family = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
871 shape = {it,sl,sw} }
872 {
873 ! = {190,40},
874 ( = {90, }, ) = {90, },
875 [ = {90,90}, ] = {120,60},
876 {,} = {210,680},
877 . = {640,680},
878 : = {380,430},
879 ; = { ,430},
880 - = {750,750},
881 \textquoteleft = {690,140}, \textquoteright = {470,230},
882 \textendash = {400,500}, \textemdash = {220,280},
883 \textquotedblleft = {520,130}, \textquotedblright = {520,130},
884 }
885 \end{fontdef}

```

12 Font definition files

As all the font definitions look the same we introduce macros to ease the configuration. These macros are stored in the file `MinionPro-FontDef.sty` which is included by every `FD` file. Note that `MinionPro-FontDef.sty` will be included several times and that we do not know in which context the code is executed. Therefore, we have to define all non-private commands as globals.

Since this package should be loadable in an `FD` file we have to avoid all `\preambleonly` commands. Therefore, we use `\ProvidesFile` instead of `\ProvidesPackage`.

We add a guard so that this file is executed only once even if it is included multiple times.

```

886 \fontdef
887 \ifx\Mn@DeclareFontShape\@undefined\else\endinput\fi

```

We distinguish between being loaded directly or via `\usepackage` in the preamble by checking `\@nodocument`.

```

888 \ifx\@nodocument\relax
889 \input{otfontdef.sty}
890 \else
891 \NeedsTeXFormat{LaTeX2e}
892 \RequirePackage{otfontdef}
893 \fi

```

Reset `\escapechar` (which is set to `-1` in `FD` files) to make `\newcommand` work. The additional group does not harm; we have to make the important commands global anyway.

```

894 \ifx\@nodocument\relax
895 \begingroup\escapechar'\
896 \fi

```

These are the default values if it is impossible to process options.

```
897 \newcommand\Mn@option@opticals{noopticals}
898 \newcommand\Mn@option@fontset{smallfamily}
899 \newdimen\Mn@option@normalsize
900 \global\Mn@option@normalsize10pt
```

Whether we should adapt the configuration to the \normalsize of the document. This switch is only needed locally.

```
901 \newif\ifMn@option@normalsize
902 \Mn@option@normalsizetrue

903 \ifx\@nodocument\relax\else
904   \DeclareOption{slides}      {\let\Mn@option@opticals\CurrentOption}
905   \DeclareOption{opticals}    {\let\Mn@option@opticals\CurrentOption}
906   \DeclareOption{noopticals}  {\let\Mn@option@opticals\CurrentOption}
907   \DeclareOption{smallfamily}{\let\Mn@option@fontset\CurrentOption}
908   \DeclareOption{medfamily}   {\let\Mn@option@fontset\CurrentOption}
909   \DeclareOption{fullfamily}  {\let\Mn@option@fontset\CurrentOption}
910   \DeclareOption{normalsize}  {\Mn@option@normalsizetrue}
911   \DeclareOption{nonormalsize}{\Mn@option@normalsizefalse}
912   \ExecuteOptions{smallfamily,noopticals,normalsize}
913   \ProcessOptions\relax
914 \fi
```

The method to determine the main font size is inspired by microtype’s implementation.

```
915 \ifMn@option@normalsize
916   \begingroup
917   \def\set@fontsize#1#2#3#4\@nil{%
918     \@defaultunits\global\Mn@option@normalsize#2pt\relax\@nnil}%
919   \normalsize\@nil
920   \endgroup
921 \fi
```

We use \otf@makeglobal from otfontdef to “export” the definitions that are needed globally.

```
922 \otf@makeglobal\Mn@option@opticals}
923 \otf@makeglobal\Mn@option@fontset}
924 \ifx\@nodocument\relax\else
925   \PackageInfo{MinionPro-FontDef}{%
926     Configuration:\space\Mn@option@fontset,\space\Mn@option@opticals,\space
927     normalsize=\the\Mn@option@normalsize}%
928 \fi
```

Configuration database

```
929 \newcount\Mn@config@cnt
930 \Mn@config@cnt=0
931 \newcommand\Mn@curr@config\Mn@config@\romannumeral\Mn@config@cnt}
```

These commands help in setting up the configuration database. They do not need to be global. But the config database itself has to be.

#3 is added to all instances listed in #2 of configuration class #1. #3 is read with NFSS catcodes.

```

932 \newcommand\Mn@AddToConfig{%
933   \begingroup
934   \nfss@catcodes
935   \expandafter\endgroup
936   \Mn@AddToConfig@
937 }
938 \newcommand\Mn@AddToConfig@[3]{%
939   \advance\Mn@config@cnt\@ne
940   \@namedef{\Mn@curr@config}{#3}%
941   \otf@makeglobal{\Mn@curr@config}
942 <debug & show>\expandafter\show\csname\Mn@curr@config\endcsname
943   \@for\Mn@tempa:=#2\do{%
944     \@ifundefined{Mn@config@#1@\Mn@tempa}{%
945       \@temptokena{%
946         }%
947         \@temptokena\expandafter\expandafter\expandafter
948         {\csname Mn@config@#1@\Mn@tempa\endcsname}%
949       }%
950       \@expandtwoargs\@namedef{Mn@config@#1@\Mn@tempa}{%
951         \the\@temptokena
952         \expandafter\noexpand\csname\Mn@curr@config\endcsname
953       }%
954       \otf@makeglobal{Mn@config@#1@\Mn@tempa}% perhaps defer to only execute once
955 <debug & show>\expandafter\show\csname Mn@config@#1@\Mn@tempa\endcsname
956     }%
957 }

```

Let us look at an example of how the configuration database looks internally for (shape, sw), which is specified below in three steps. The following lines show different depths of expansion of the macro \Mn@config@shape@sw, which finally yields the complete configuration:

```

\Mn@config@shape@sw
\Mn@config@xi \Mn@config@xiv \Mn@config@xv
<-8>\otf*[spacing=11]<->\otf*[variant=swash]<->\otf*MinionPro-It

```

The following commands are used in the Declare...Family commands to access the previously built configuration database. They must be expandable. #3 is used as a default if no entry is found in the database.

```

958 \newcommand*\Mn@UseConfig[2]{%
959   \Mn@UseConfigOrDefault{#1}{#2}{}%
960 }
961 \newcommand*\Mn@UseConfigOrDefault[3]{%
962   \@ifundefined{Mn@config@#1@#2}{#3}%
963   {\@nameuse{Mn@config@#1@#2}}%
964 }
965 \newcommand*\Mn@TheConfig[2]{%
966   \@ifundefined{Mn@config@#1@#2}{#3}{%

```

```

967 \expandafter\noexpand\csname Mn@config@#1@#2\endcsname
968 }%
969 }
970 \otf@makeglobal{Mn@UseConfig}
971 \otf@makeglobal{Mn@UseConfigOrDefault}
972 \otf@makeglobal{Mn@TheConfig}

```

The size range in the configuration has to be divided by the scaling factor to take the changed size into account because the scaling takes place after choosing the right combination. Provide calculation routine here.

```

973 \RequirePackage{fltpoint}
974 \fpDecimalSign{.}
975 \newcommand*{\Mn@calc@bsize}[2]{\fpDiv{#1}{#2}{\Mn@scale}}

```

Here comes the configuration.

```

976 \Mn@calc@bsize{\Mn@s@capt}{8.5}
977 \Mn@calc@bsize{\Mn@s@text}{13.1}
978 \Mn@calc@bsize{\Mn@s@subh}{20}
979 \Mn@AddToConfig{opticals}{opticals}{
980     <-\Mn@s@capt> otf* [optical=Capt]
981     <\Mn@s@capt-\Mn@s@text> otf* [optical=Text]
982     <\Mn@s@text-\Mn@s@subh> otf* [optical=Subh]
983     <\Mn@s@subh-> otf* [optical=Disp]
984 }
985 \Mn@AddToConfig{opticals}{noopticals}{
986     <-> otf* [optical=Text]
987 }
988 \Mn@AddToConfig{opticals}{slides}{
989     <-> otf* [optical=Capt]
990 }

991 \ifdim\Mn@option@normalsize<10.1pt
992 \Mn@calc@bsize{\Mn@s@semif}{6}
993 \Mn@calc@bsize{\Mn@s@medif}{8.5}
994 \else
995 \Mn@calc@bsize{\Mn@s@semif}{6}
996 \Mn@calc@bsize{\Mn@s@medif}{10.1}
997 \fi
998 \Mn@AddToConfig{fontset/weight}{fullfamily/m}{
999     <-\Mn@s@semif> otf* [weight=Semibold]
1000 <\Mn@s@semif-\Mn@s@medif> otf* [weight=Medium]
1001 <\Mn@s@medif-> otf* [weight=Regular]
1002 }
1003 \Mn@calc@bsize{\Mn@s@semim}{6}
1004 \Mn@AddToConfig{fontset/weight}{medfamily/m}{
1005     <-\Mn@s@semim> otf* [weight=Semibold]
1006 <\Mn@s@semim-> otf* [weight=Regular]
1007 }
1008 \Mn@AddToConfig{fontset/weight}{smallfamily/m}{
1009     <-> otf* [weight=Regular]
1010 }

```



```

1011 %
1012 \Mn@calc@bsize{\Mn@s@bold}{6}
1013 \Mn@AddToConfig{fontset/weight}{fullfamily/b,medfamily/b}{
1014     <-\Mn@s@bold>    otf* [weight=Bold]
1015     <\Mn@s@bold->    otf* [weight=Semibold]
1016 }
1017 \Mn@AddToConfig{fontset/weight}{smallfamily/b}{
1018     <->    otf* [weight=Bold]
1019 }
1020 %
1021 \Mn@AddToConfig{weight}{eb}{
1022     <->    otf* [weight=Bold]
1023 }
1024 \Mn@AddToConfig{shape}{ssc,sscit}{
1025     <->    otf* [spacing=12]
1026 }
1027 \Mn@calc@bsize{\Mn@s@spac}{8}
1028 \Mn@AddToConfig{shape}{n,it,sw,sc,scit}{
1029     <-\Mn@s@spac>    otf* [spacing=11]
1030 }
1031 \Mn@AddToConfig{encoding/shape}{U/n,U/it}{
1032     <->    otf* [spacing=]
1033 }
1034 %
1035 \Mn@AddToConfig{shape}{sc,ssc,scit,sscit}{
1036     <->    otf* [variant=sc]
1037 }
1038 \Mn@AddToConfig{shape}{sw}{
1039     <->    otf* [variant=swash]
1040 }
1041 \Mn@AddToConfig{shape}{it,scit,sscit,sw}{
1042     <->    otf* MinionPro-It
1043 }
1044 \Mn@AddToConfig{shape}{n,sc,ssc}{
1045     <->    otf* MinionPro
1046 }
1047 \Mn@AddToConfig{encoding/shape}{OML/it}{
1048     <->    otf* [figures=] MinionPro-Mixed
1049 }
1050 \Mn@AddToConfig{encoding/shape}{OML/n}{
1051     <->    otf* [figures=] MinionPro-French
1052 }
1053 \Mn@AddToConfig{scale}{scale}{
1054     <->    otf* [scale=\Mn@scale]
1055 }

```

Substitutions

```

1056 \Mn@AddToConfig{sub:series} {sb}    {b}
1057 \Mn@AddToConfig{sub:series} {bx}    {b}

```

```

1058 \Mn@AddToConfig{sub:shape} {sl} {it}
1059 \Mn@AddToConfig{sub:shape} {scsl} {scit}
1060 \Mn@AddToConfig{sub:shape} {sscs1} {ssc1t}
1061 \Mn@AddToConfig{sub:shape} {scsw} {scit}
1062 \Mn@AddToConfig{sub:shape} {sscsw} {ssc1t}
1063 \Mn@AddToConfig{sub:encoding/shape}{TS1/sw}{it}

```

Code for the last argument of \DeclareFontShape

```

1064 \Mn@AddToConfig{code:shape}{sw}{
1065   \skewchar\font='337
1066 }

```

Declaration of font families and shapes

```

1067 \newcommand*\Mn@DeclareFontShape[6] [] {%

```

Check if any substitutions are specified.

```

1068   \edef\@tempa{%
1069     \Mn@UseConfig{sub:series}{#4}%
1070     \Mn@UseConfigOrDefault{sub:encoding/shape}{#2/#5}{%
1071       \Mn@UseConfig{sub:shape}{#5}}%
1072   }%
1073   \ifx\@tempa\@empty

```

Collect the configuration and declare the font shape. \DeclareFontShape fully expands its fifth argument (with our macros \Mn@UseConfig in it), but we have to retrieve the code for the sixth argument ourselves.

```

1074     \@temptokena={%
1075       \DeclareFontShape{#2}{#3-#6}{#4}{#5}{%
1076         \Mn@UseConfig{opticals}      {\Mn@option@opticals}%
1077         \Mn@UseConfig{fontset/weight}{\Mn@option@fontset/#4}%
1078         \Mn@UseConfig{weight}        {#4}%
1079         \Mn@UseConfig{encoding/shape}{#2/#5}%
1080         \Mn@UseConfig{shape}         {#5}%
1081         \Mn@UseConfig{scale}         {scale}%
1082       }%
1083     \edef\@tempa{\the\@temptokena{\Mn@TheConfig{code:shape}{#5}}}%
1084     \@tempa
1085   \else

```

Generate the substitution. (All substitutions are silent at the moment.)

```

1086     \DeclareFontShape{#2}{#3-#6}{#4}{#5}{%
1087       <->ssub*#3-#6%
1088       /\Mn@UseConfigOrDefault{sub:series}{#4}{#4}%
1089       /\Mn@UseConfigOrDefault{sub:encoding/shape}{#2/#5}{%
1090         \Mn@UseConfigOrDefault{sub:shape}{#5}{#5}}%
1091     }{}%
1092   \fi
1093 }
1094 \otf@makeglobal\Mn@DeclareFontShape}
1095 \otf@makeglobal{\string\Mn@DeclareFontShape}

```

#2 contains the encoding, #3 the family, and #1 a list of figure versions (or Extra).

```

1096 \newcommand*\Mn@DeclareLargeFontFamily[3][LF,OsF,TLF,TOf]{%
1097   \Mn@DeclareFontFamily{#1}{#2}{#3}
1098     {m,sb,b,bx,eb} {n,it,sc,ssc,scit,sscit,sw,scsl,scsw,sscs,sscs,sl}%
1099 }
1100 \newcommand*\Mn@DeclareSmallFontFamily[3][LF,OsF,TLF,TOf]{%
1101   \Mn@DeclareFontFamily{#1}{#2}{#3}
1102     {m,sb,b,bx,eb} {n,it,sl}%
1103 }
1104 \newcommand*\Mn@DeclareMathFontFamily[3][TOf]{%
1105   \Mn@DeclareFontFamily[\skewchar\font=255]{#1}{#2}{#3}
1106     {m,sb,b,bx,eb} {n,it}%
1107 }

```

An additional macro `\csname\string\foo\endcsname` is generated by `\newcommand` for processing an optional argument of `\foo`.

```

1108 \otf@makeglobal{\Mn@DeclareLargeFontFamily}
1109 \otf@makeglobal{\string\Mn@DeclareLargeFontFamily}
1110 \otf@makeglobal{\Mn@DeclareSmallFontFamily}
1111 \otf@makeglobal{\string\Mn@DeclareSmallFontFamily}
1112 \otf@makeglobal{\Mn@DeclareMathFontFamily}
1113 \otf@makeglobal{\string\Mn@DeclareMathFontFamily}
1114 \newcommand*\Mn@DeclareFontFamily[6][]{%
1115   \@for\Mn@variant:=#2\do{%
1116     \DeclareFontFamily {#3}{#4-\Mn@variant}{#1}%
1117   }%
1118   \Mn@DeclareFontShapes{#3}{#4}
1119     {#5} {#6} {#2}%
1120 }
1121 \otf@makeglobal{\Mn@DeclareFontFamily}
1122 \otf@makeglobal{\string\Mn@DeclareFontFamily}
1123 \newcommand*\Mn@DeclareFontShapes[5]{%
1124   \@for\Mn@series:=#3\do{%
1125     \@for\Mn@shape:=#4\do{%
1126       \@for\Mn@variant:=#5\do{%
1127         \Mn@DeclareFontShape{#1}{#2}{\Mn@series}{\Mn@shape}{\Mn@variant}%
1128       }%
1129     }%
1130   }%
1131 }
1132 \otf@makeglobal{\Mn@DeclareFontShapes}

```

Adjust font dimension #1 of the current font. The function in #2 should replace the old value in `\fontdimen` with a new one (which may depend on other parameters like `\f@size`).

```

1133 \newdimen\Mn@fontdimen
1134 \newcommand*\Mn@adjust@fontdimen[2]{%
1135   \Mn@fontdimen=\fontdimen#1\font
1136   #2%
1137   \fontdimen#1\font=\Mn@fontdimen
1138 }

```

```

1139 \otf@makeglobal{Mn@adjust@fontdimen}
1140 \ifx\nodocument\relax
1141 \endgroup
1142 \fi

1143 {*debug}
1144 \newcommand\old@DeclareFontFamily{}
1145 \let\old@DeclareFontFamily\DeclareFontFamily
1146 \renewcommand\DeclareFontFamily[3]{
1147 \begingroup\escapechar'\%
1148 \edef\@tempa{\noexpand\DeclareFontFamily{#1}{#2}}%
1149 \@temptokena\expandafter{\@tempa{#3}}%
1150 \message{\the\@temptokena}%
1151 \endgroup
1152 \old@DeclareFontFamily{#1}{#2}{#3}%
1153 }
1154 \newcommand\old@DeclareFontShape{}
1155 \let\old@DeclareFontShape\DeclareFontShape
1156 \renewcommand\DeclareFontShape[6]{
1157 \begingroup\escapechar'\%
1158 \edef\@tempa{\noexpand\DeclareFontShape{#1}{#2}{#3}{#4}{#5}}%
1159 \@temptokena\expandafter{\@tempa{#6}}%
1160 \message{\the\@temptokena}%
1161 \endgroup
1162 \old@DeclareFontShape{#1}{#2}{#3}{#4}{#5}{#6}%
1163 }
1164 {/debug}

```

We define font family aliases so that we can place all configurations for the MinionPro family variants into one microtype file: `mt-MinionPro.cfg`. We use microtype's hook if microtype has not been loaded yet (which should be the case); otherwise we can execute the alias definitions directly.

```

1165 \gdef\Mn@MicroType@Aliases{%
1166 \DeclareMicrotypeAlias{MinionPro-LF}{MinionPro}%
1167 \DeclareMicrotypeAlias{MinionPro-OfF}{MinionPro}%
1168 \DeclareMicrotypeAlias{MinionPro-TLF}{MinionPro}%
1169 \DeclareMicrotypeAlias{MinionPro-TOfF}{MinionPro}%
1170 }
1171 \@ifundefined{Microtype@Hook}{%
1172 \global\let\Microtype@Hook\Mn@MicroType@Aliases
1173 }{%
1174 \g@addto@macro\Microtype@Hook{\Mn@MicroType@Aliases}%
1175 }%
1176 \@ifundefined{DeclareMicroTypeAlias}{\Mn@MicroType@Aliases}%
1177 {/fontdef}

```

Using these macros the various FD files become simple one-liners.

```

1178 {*fd}
1179 \input{MinionPro-FontDef.sty}%
1180 {Uextra} \Mn@DeclareSmallFontFamily[Extra]{U} {MinionPro}
1181 {LGR} \Mn@DeclareSmallFontFamily {LGR}{MinionPro}

```

```

1182 <LGI> \Mn@DeclareSmallFontFamily {LGI}{MinionPro}
1183 <OT1> \Mn@DeclareLargeFontFamily {OT1}{MinionPro}
1184 <T1> \Mn@DeclareLargeFontFamily {T1}{MinionPro}
1185 <LY1> \Mn@DeclareLargeFontFamily {LY1}{MinionPro}
1186 <T5> \Mn@DeclareLargeFontFamily {T5}{MinionPro}
1187 <T2A> \Mn@DeclareSmallFontFamily {T2A}{MinionPro}
1188 <T2B> \Mn@DeclareSmallFontFamily {T2B}{MinionPro}
1189 <T2C> \Mn@DeclareSmallFontFamily {T2C}{MinionPro}
1190 <TS1> \Mn@DeclareLargeFontFamily {TS1}{MinionPro}
1191 <X2> \Mn@DeclareSmallFontFamily {X2}{MinionPro}
1192 <OT2> \Mn@DeclareSmallFontFamily {OT2}{MinionPro}
1193 <OML & tosf> \Mn@DeclareMathFontFamily {OML}{MinionPro}
1194 <*OML & (lf | osf | tlf)>
1195 \@for\Mn@variant:=LF,TLF,OsF\do{%
1196 \DeclareFontFamily{OML}{MinionPro-\Mn@variant}{\skewchar\font=255}
1197 \@for\Mn@series:=m,sb,b,bx,eb\do{%
1198 \@for\Mn@shape:=n,it\do{%
1199 \DeclareFontShape{OML}{MinionPro-\Mn@variant}{\Mn@series}{\Mn@shape}%
1200 { <-> ssub*MinionPro-TOf/\Mn@series/\Mn@shape }{}
1201 }%
1202 }%
1203 }%
1204 </OML & (lf | osf | tlf)>
1205 </fd>

```