

MinionPro Support for L^AT_EX

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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 you can load the corresponding package (such as `eulervm`) *after* the MinionPro package.

2 Interference with other packages

The MinionPro package automatically loads the following packages: `textcomp`, `amsmath`, and `MnSymbol`. If you want to pass options to these packages you can either put the corresponding `\usepackage` command before the `\usepackage{MinionPro}` or you can include 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. To enable character protrusion add the command

```
\usepackage{microtype}
```

after the command `\usepackage{MinionPro}`.

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).

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 shape Caption (useful for slides)

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:

<code>textosf</code>	use text figures in text mode
<code>mathosf</code>	use text figures in math mode
<code>osf*</code>	use text figures in text and math mode
<code>textlf</code>	use lining figures in text mode
<code>mathlf</code>	use lining figures in math mode
<code>lf</code>	use lining figures in text and math mode
<code>mathtabular</code>	use tabular figures in math mode

Calligraphic fonts

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

<code>mnsy*</code>	use the calligraphic font from MnSymbol: \mathcal{ABC}
<code>cmsy</code>	take the calligraphic symbols from Computer Modern: \mathcal{ABC}
<code>swash</code>	use the swash capitals from MinionPro: \mathcal{ABC}
<code>abx</code>	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.

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

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

minionint	take the integral symbols from MinionPro, not from MnSymbol: \int instead of \int
footnotefigures	use special figures for footnote marks, i.e., example ^{6,9} instead of example ^{6,9} . This option can only be used if the footnote marks consist <i>solely</i> of figures.

4 Figure selection

MinionPro offers four different figure versions. One can choose between *text figures* (lower-case 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:

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

Nearly all common L^AT_EX document classes do not support fonts with several figure versions. Usually it is desirable to set most text with proportional figures and use tabular figures only in tables and lists. The following hack can be used to get tabular figures in the table of contents. Surround your `\tableofcontents` command by the lines

```
\begingroup
\figureversion{tabular}
\renewcommand\familydefault{MinionPro-T0sF}
\tableofcontents
\endgroup
```

The above code switches to tabular text figures. If you prefer lining figures then you can replace the T0sF by TLF. The same method can be applied to the list of figures and the list of tables.

If you are using the `scartcl` class then, instead of the above lines, you need the command

```
\addtokomafont{sectioning}{\rmfamily\figurestyle{tab}}
```

anywhere in your preamble.

Note that, if you use one of the above hacks and your section titles contain numbers then these will also be set in tabular figures.

There is also a proper solution which works in all cases. Unfortunately, it requires modifications of internal L^AT_EX commands:

```
\def\numberline#1{\hb@xt@0\@tempdima{\figureversion{tabular}#1\hfil}}
\def\@dottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth \else
    \vskip \z@ \@plus.2\p@
    {\leftskip #2\relax \rightskip \@tocrmarg \parfillskip -\rightskip
     \parindent #2\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima #3\relax
     \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
     {#4}\nobreak
     \leaders\hbox{$\m@th
       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
       mu$}\hfill
     \nobreak
     \hb@xt@0\@pnumwidth{\hfil\normalfont\figureversion{tabular}\normalcolor #5}%
     \par}%
  \fi}
```

The first redefinition causes the section numbers to be set in tabular figures, the second one does the same for the page numbers. Note that, if you put these definitions directly into your document then you have to surround them by the commands `\makeatletter` and `\makeatother`.

Further, note that these modifications only work for the standard document classes article, report, and book. If you use other classes such as KOMA-Script or memoir then you have to copy their respective definitions and insert the command `\figureversion{tabular}` at the appropriate 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`.

<code>sc</code>	THIS IS A SAMPLE TEXT
<code>ssc</code>	THIS IS A SAMPLE TEXT
<code>sw</code>	<i>This is a Sample Text</i>

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

\digamma	<code>\digamma</code>	κ	<code>\varkappa</code>	β	<code>\varbeta</code>
$\backslash\epsilon$	<code>\backepsilon</code>	ϑ	<code>\varbackepsilon</code>	\hbar	<code>\hbar</code>
\jmath	<code>\jmath</code>	\eth	<code>\eth</code>	\lozenge	<code>\lozenge</code>
\emptyset	<code>\slashedzero</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 “ $\frac{1}{2}$ liters of red wine” and can be accessed via




















































<code>\smallfrac{⟨numerator⟩}{⟨denominator⟩}</code>	$\frac{1}{3} \frac{5}{17}$
<code>\slantfrac{⟨numerator⟩}{⟨denominator⟩}</code>	$\frac{1}{3} \frac{5}{17}$

Note that *only* figures can be used for $\langle \text{numerator} \rangle$ and $\langle \text{denominator} \rangle$.

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. “Dot below letter” accents and `\setgreekfontsize` are not supported.

7 NFSS classification

Parenthesised combinations are provided via substitutions.

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

8 The main style file

8.1 Options

Font sets

The package `MinionPro-FontDef` adapts the font definitions to the requested font set (see section 10). So we simply pass on the relevant options; only `MinionPro` integrals are handled here in `MinionPro`.

```

1 \*style
2 \newcommand\Mn@minionint@opticals{-NoOpticals}
3 \newcommand\Mn@minionint@bold{-Bold}
4 \DeclareOption{slides}{%
5   \def\Mn@minionint@opticals{-NoOpticals}%
6   \PassOptionsToPackage{slides}{MinionPro-FontDef}}
7 \DeclareOption{noopticals}{%
8   \def\Mn@minionint@opticals{-NoOpticals}%
9   \PassOptionsToPackage{noopticals}{MinionPro-FontDef}}
10 \DeclareOption{opticals}{%
11   \def\Mn@minionint@opticals{}%
12   \PassOptionsToPackage{opticals}{MinionPro-FontDef}}

```

¹via substitution in `TS1` encoding

```

13 \DeclareOption{smallfamily}{%
14   \def\Mn@minionint@bold{-Bold}%
15   \PassOptionsToPackage{smallfamily}{MinionPro-FontDef}}
16 \DeclareOption{medfamily}{%
17   \def\Mn@minionint@bold{-Semibold}%
18   \PassOptionsToPackage{medfamily}{MinionPro-FontDef}}
19 \DeclareOption{fullfamily}{%
20   \def\Mn@minionint@bold{-Semibold}%
21   \PassOptionsToPackage{fullfamily}{MinionPro-FontDef}}

```

Figure style

```

22 \newcommand\Mn@Text@Fig{0sF}
23 \newcommand\Mn@Math@Fig{0sF}
24 \newcommand\Mn@Text@Family{MinionPro-\Mn@Text@Fig}
25 \newcommand\Mn@Math@Family{MinionPro-\Mn@Math@Fig}
26 \newcommand\Mn@Math@TFamily{MinionPro-T\Mn@Math@Fig}
27 \newcommand\Mn@Math@GenericFamily{MinionPro-T0sF}

28 \DeclareOption{textosf}{\def\Mn@Text@Fig{0sF}}
29 \DeclareOption{textlf}{\def\Mn@Text@Fig{LF}}
30 \DeclareOption{mathosf}{\def\Mn@Math@Fig{0sF}}
31 \DeclareOption{mathlf}{\def\Mn@Math@Fig{LF}}
32 \DeclareOption{osf}{\ExecuteOptions{textosf,mathosf}}
33 \DeclareOption{lf}{\ExecuteOptions{textlf,mathlf}}
34 \DeclareOption{mathtabular}{\let\Mn@Math@Family\Mn@Math@TFamily}

```

Calligraphic fonts

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

```

35 \newcommand\Mn@load@cal{}
36 \newcommand\Mn@load@bb{}
37 \newcommand\Mn@load@frak{}

```

Most options are handled by MnSymbol.

```

38 \DeclareOption{mnsy}{
39   \PassOptionsToPackage{mnsy}{MnSymbol}
40   \def\Mn@load@cal{
41     \SetMathAlphabet\mathcal{boldtabular}{OMS}{MnSymbolS}{b}{n}
42   }
43 }
44 \DeclareOption{cmsy}{
45   \PassOptionsToPackage{cmsy}{MnSymbol}
46   \def\Mn@load@cal{
47     \SetMathAlphabet\mathcal{boldtabular}{OMS}{cmsy}{b}{n}
48   }
49 }
50 \DeclareOption{abx}{\PassOptionsToPackage{abx}{MnSymbol}}
51 \DeclareOption{swash}{
52   \def\Mn@load@cal{
53     \DeclareMathAlphabet\mathcal{T1}{\Mn@Math@Family}{m}{sw}

```



```

54 \SetMathAlphabet\mathcal{bold}      {T1}{\Mn@Math@Family} {eb}{sw}
55 \SetMathAlphabet\mathcal{tabular}   {T1}{\Mn@Math@TFamily}{m} {sw}
56 \SetMathAlphabet\mathcal{boldtabular}{T1}{\Mn@Math@TFamily}{eb}{sw}}
57 }

```

Greek letters

`\Mn@greek@Upright`, `\Mn@greek@Mixed`, and `\Mn@greek@Italic` are defined below in section 8.4 before `\Mn@load@greek` is executed.

```

58 \newcommand\Mn@load@greek{\Mn@greek@Mixed}
59 \newcommand\Mn@Math@French{}
60 \DeclareOption{frenchmath}{%
61   \def\Mn@load@greek{\Mn@greek@Upright}%
62   \def\Mn@Math@French{french}}
63 \DeclareOption{mixedgreek}{%
64   \def\Mn@load@greek{\Mn@greek@Mixed}}
65 \DeclareOption{italicgreek}{%
66   \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}`).

```

67 \newcommand\Mn@load@amsbb{
68   \let\mathbb\@undefined
69   \DeclareMathAlphabet\mathbb{U}{msb}{m}{n}}
70 \newcommand\Mn@load@lucidabb{
71   \let\mathbb\@undefined
72   \DeclareFontFamily{U}{hlcmm}{}
73   \DeclareFontShape{U}{hlcmm}{m}{n}{<->s*[0.92] hlcra }{}
74   \DeclareMathAlphabet\mathbb{U}{hlcmm}{m}{n}}
75 \newcommand\Mn@load@fourierbb{
76   \let\mathbb\@undefined
77   \DeclareFontFamily{U}{futm}{}
78   \DeclareFontShape{U}{futm}{m}{n}{<->s*[0.95] fourier-bb }{}
79   \DeclareMathAlphabet\mathbb{U}{futm}{m}{n}}
80 \DeclareOption{amsbb}   {\let\Mn@load@bb\Mn@load@amsbb}
81 \DeclareOption{lucidabb}{\let\Mn@load@bb\Mn@load@lucidabb}
82 \DeclareOption{fourierbb}{\let\Mn@load@bb\Mn@load@fourierbb}

```

Integrals

```

83 \newcommand\Mn@load@integrals{}
84 \DeclareOption{minionint}{\def\Mn@load@integrals{\Mn@Decl@Minion@Ints}}

```

Optical footnote marks

```

85 \DeclareOption{footnotefigures}{%

```

```

86 \def\@makefnmark{%
87   \begingroup
88   \normalfont
89   \fontfamily{MinionPro-Extra}\fontencoding{U}\selectfont
90   \@thefnmark
91   \endgroup}}

```

Defaults

```

92 \ExecuteOptions{amsbb,eufrak}
93 \ProcessOptions\relax

```

8.2 Font declarations

```

94 \RequirePackage{MnSymbol,MinionPro-FontDef}

```

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

```

95 \@ifundefined{mathfrak}{%
96   \RequirePackage{eufrak}%
97   \SetMathAlphabet\EuFrak{boldtabular}{U}{euf}{b}{n}}{}

```

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`).

```

98 \edef\rmdefault{\Mn@Text@Family}
99 %\edef\bfdefault{b}
100 \let\ibycusdefault\Mn@Text@Family

```

Math fonts

Redefine the standard math versions normal and bold.

```

101 \DeclareSymbolFont{operators} {T1}                {\Mn@Math@Family}      {m} {n}
102 \DeclareSymbolFont{letters}   {OML\Mn@Math@French}{\Mn@Math@GenericFamily}{m} {it}
103 \SetSymbolFont{operators}{bold}{T1}                {\Mn@Math@Family}      {eb}{n}
104 \SetSymbolFont{letters}{bold}{OML\Mn@Math@French}{\Mn@Math@GenericFamily}{eb}{it}
105 \DeclareMathAlphabet\mathbf  {T1}                {\Mn@Math@Family}      {eb}{n}
106 \DeclareMathAlphabet\mathit  {T1}                {\Mn@Math@Family}      {m} {it}
107 \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).

```

108 \DeclareMathVersion{tabular}
109 \SetSymbolFont{operators}{tabular} {T1}                {\Mn@Math@TFamily}      {m}{n}
110 \SetSymbolFont{letters}{tabular}   {OML\Mn@Math@French}{\Mn@Math@GenericFamily}{m}{it}
111 \SetMathAlphabet\mathit {tabular}  {T1}                {\Mn@Math@TFamily}      {m}{it}
112
113 \DeclareMathVersion{boldtabular}
114 \SetSymbolFont{operators}{boldtabular}{T1}                {\Mn@Math@TFamily}      {eb}{n}
115 \SetSymbolFont{letters}{boldtabular}{OML\Mn@Math@French}{\Mn@Math@GenericFamily}{eb}{it}
116 \SetMathAlphabet\mathit {boldtabular}{T1}                {\Mn@Math@TFamily}      {eb}{it}

117 \DeclareMathAccent{\grave}  {\mathalpha}{operators}{0}
118 \DeclareMathAccent{\acute}  {\mathalpha}{operators}{1}
119 \DeclareMathAccent{\hat}    {\mathalpha}{operators}{2}
120 \DeclareMathAccent{\tilde}  {\mathalpha}{operators}{3}

```

```

121 \DeclareMathAccent{\ddot}      {\mathalpha}{operators}{4}
122 \DeclareMathAccent{\mathring}{\mathalpha}{operators}{6}
123 \DeclareMathAccent{\check}     {\mathalpha}{operators}{7}
124 \DeclareMathAccent{\breve}     {\mathalpha}{operators}{8}
125 \DeclareMathAccent{\bar}       {\mathalpha}{operators}{9}
126 \DeclareMathAccent{\dot}       {\mathalpha}{operators}{10}

```

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

```

127 \Mn@load@bb
128 \Mn@load@frak
129 \Mn@load@cal

```

8.3 Font selection

The font selection commands such as `\figureversion`, `\textsw`, and `\textssc` are provided by the companion package `fontaxes`, which may be useful for other font families as well.

```

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

```

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

```

131 \let\oldstylenums\textfigures

```

8.4 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.

```

132 \newcommand\Mn@greek@list@upper{}
133 \newcommand\Mn@greek@list@lower{}
134 \let\Mn@greek@list@upper\@gobble
135 \let\Mn@greek@list@lower\@gobble

This macro holds one of the two list names.

136 \newcommand\Mn@greek@list{}
137 \newcommand*\Mn@greek@letter[3]{%
138   \expandafter\DeclareMathSymbol
139   \expandafter{\csname it#1\endcsname}{\mathord}{letters}{#2}%
140   \expandafter\DeclareMathSymbol
141   \expandafter{\csname up#1\endcsname}{\mathord}{letters}{#3}%
142   \edef\@tempa{'\@car#1\@nil}%
143   \edef\Mn@greek@list{\expandafter\noexpand\csname
144     Mn@greek@list@ifnum\uccode\@tempa=\@tempa upper\else lower\fi\endcsname}%
145   \expandafter\edef\Mn@greek@list{\Mn@greek@list,#1}%
146 }

```

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

```

147 \Mn@greek@letter{Gamma}      {'000}{ '200}
148 \Mn@greek@letter{Delta}      {'001}{ '201}
149 \Mn@greek@letter{Theta}      {'002}{ '202}
150 \Mn@greek@letter{Lambda}     {'003}{ '203}
151 \Mn@greek@letter{Xi}         {'004}{ '204}
152 \Mn@greek@letter{Pi}         {'005}{ '205}
153 \Mn@greek@letter{Sigma}      {'006}{ '206}
154 \Mn@greek@letter{Upsilon}    {'007}{ '207}
155 \Mn@greek@letter{Phi}        {'010}{ '210}
156 \Mn@greek@letter{Psi}        {'011}{ '211}
157 \Mn@greek@letter{Omega}      {'012}{ '212}
158 \Mn@greek@letter{alpha}      {'013}{ '213}
159 \Mn@greek@letter{beta}       {'014}{ '214}
160 \Mn@greek@letter{gamma}      {'015}{ '215}
161 \Mn@greek@letter{delta}      {'016}{ '216}
162 \Mn@greek@letter{epsilon}    {'017}{ '217}
163 \Mn@greek@letter{zeta}       {'020}{ '220}
164 \Mn@greek@letter{eta}        {'021}{ '221}
165 \Mn@greek@letter{theta}      {'022}{ '222}
166 \Mn@greek@letter{iota}       {'023}{ '223}
167 \Mn@greek@letter{kappa}      {'024}{ '224}
168 \Mn@greek@letter{lambda}     {'025}{ '225}
169 \Mn@greek@letter{mu}         {'026}{ '226}
170 \Mn@greek@letter{nu}         {'027}{ '227}
171 \Mn@greek@letter{xi}         {'030}{ '230}
172 \Mn@greek@letter{pi}         {'031}{ '231}
173 \Mn@greek@letter{rho}        {'032}{ '232}
174 \Mn@greek@letter{sigma}      {'033}{ '233}
175 \Mn@greek@letter{tau}        {'034}{ '234}
176 \Mn@greek@letter{upsilon}    {'035}{ '235}
177 \Mn@greek@letter{phi}        {'036}{ '236}
178 \Mn@greek@letter{chi}        {'037}{ '237}
179 \Mn@greek@letter{psi}        {'040}{ '240}
180 \Mn@greek@letter{omega}      {'041}{ '241}
181 \Mn@greek@letter{varepsilon}  {'042}{ '242}
182 \Mn@greek@letter{vartheta}   {'043}{ '243}
183 \Mn@greek@letter{varpi}      {'044}{ '244}
184 \Mn@greek@letter{varrho}     {'045}{ '245}
185 \Mn@greek@letter{varsigma}   {'046}{ '246}
186 \Mn@greek@letter{varphi}     {'047}{ '247}

```

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

```

187 \Mn@greek@letter{varbeta}    {'260}{ '250}
188 \Mn@greek@letter{varkappa}   {'261}{ '251}
189 \Mn@greek@letter{backepsilon}{ '262}{ '252}
190 \Mn@greek@letter{varbackepsilon}{ '263}{ '253}
191 \Mn@greek@letter{digamma}    {'264}{ '254}
192 \Mn@greek@letter{eth}        {'266}{ '256}

```

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

```

193 \newcommand*\Mn@greek@select[2]{%
194   \expandafter\let\expandafter\Mn@greek@list\csname Mn@greek@list@#2\endcsname
195   \@for\@tempa:=\Mn@greek@list\do{%
196     \expandafter\let\csname\@tempa\expandafter\endcsname
197     \csname#1\@tempa\endcsname
198   }%
199 }
200 \newcommand*\Mn@greek@Upright{%
201   \Mn@greek@select{up}{upper}%
202   \Mn@greek@select{up}{lower}%
203 }
204 \newcommand*\Mn@greek@Italic{%
205   \Mn@greek@select{it}{upper}%
206   \Mn@greek@select{it}{lower}%
207 }
208 \newcommand*\Mn@greek@Mixed{%
209   \Mn@greek@select{up}{upper}%
210   \Mn@greek@select{it}{lower}%
211 }

```

Finally initialise the Greek letters.

```

212 \Mn@load@greek

```

8.5 Superior and inferior figures

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

```

213 \def\@for@tok#1:=#2\do#3{%
214   \expandafter\def\expandafter\@fortmp\expandafter{#2}%
215   \ifx\@fortmp\empty \else
216     \expandafter\@forloop@tok#2\@nil\@nil\@@#1{#3}%
217   \fi}
218 \def\@forloop@tok#1#2#3\@@#4#5{%
219   \def#4{#1}%
220   \ifx #4\@nnil \else
221     #5%
222     \def#4{#2}%
223     \ifx #4\@nnil \else
224       #5\@iforloop@tok #3\@@#4{#5}%
225     \fi\fi}
226 \def\@iforloop@tok#1#2\@@#3#4{%
227   \def#3{#1}%
228   \ifx #3\@nnil
229     \expandafter\@fornoop
230   \else
231     #4\relax\expandafter\@iforloop@tok
232   \fi
233   #2\@@#3{#4}}
234 %

```

```

235 \newcommand*\Mn@extra@font{%
236   \fontencoding{U}\fontfamily{MinionPro-Extra}\selectfont}
237 \newcommand*\@numerator@fig[1]{\{\Mn@extra@font\@@numerator@fig{#1}\}}
238 \newcommand*\@denominator@fig[1]{\{\Mn@extra@font\@@denominator@fig{#1}\}}
239 \newcommand*\@superior@fig[1]{\{\Mn@extra@font\@@superior@fig{#1}\}}
240 \newcommand*\@inferior@fig[1]{\{\Mn@extra@font\@@inferior@fig{#1}\}}
241 \newcommand*\@@numerator@fig[1]{%
242   \@for@tok\@nf@fig:=#1\do{%
243     \ifcase\@nf@fig
244       \char'00%
245     \or\char'01%
246     \or\char'02%
247     \or\char'03%
248     \or\char'04%
249     \or\char'05%
250     \or\char'06%
251     \or\char'07%
252     \or\char'10%
253     \or\char'11%
254     \else
255       \@latex@error{invalid argument to \string\@@numerator@fig}%
256     \fi
257   }}
258 \newcommand*\@@denominator@fig[1]{%
259   \@for@tok\@nf@fig:=#1\do{%
260     \ifcase\@nf@fig
261       \char'20%
262     \or\char'21%
263     \or\char'22%
264     \or\char'23%
265     \or\char'24%
266     \or\char'25%
267     \or\char'26%
268     \or\char'27%
269     \or\char'30%
270     \or\char'31%
271     \else
272       \@latex@error{invalid argument to \string\@@denominator@fig}%
273     \fi
274   }}
275 \newcommand*\@@superior@fig[1]{%
276   \@for@tok\@nf@fig:=#1\do{%
277     \ifcase\@nf@fig
278       \char'60%
279     \or\char'61%
280     \or\char'62%
281     \or\char'63%
282     \or\char'64%
283     \or\char'65%
284     \or\char'66%

```

```

285 \or\char'67%
286 \or\char'70%
287 \or\char'71%
288 \else
289 \latex@error{invalid argument to \string\@@superior@fig}%
290 \fi
291 }}
292 \newcommand*\@@inferior@fig[1]{%
293 \for@tok\@nf@fig:=#1\do{%
294 \ifcase\@nf@fig
295 \char'100%
296 \or\char'101%
297 \or\char'102%
298 \or\char'103%
299 \or\char'104%
300 \or\char'105%
301 \or\char'106%
302 \or\char'107%
303 \or\char'110%
304 \or\char'111%
305 \else
306 \latex@error{invalid argument to \string\@@inferior@fig}%
307 \fi
308 }}
\ensure@text switches to text mode, if necessary.
309 \newcommand*\ensure@text[1]{%
310 \ifmmode
311 \Mn@Text@With@MathVersion{#1}%
312 \else
313 #1%
314 \fi}
\smallfrac and \slantfrac assemble numerical fractions.
315 \newcommand*\@smallfrac[2]{%
316 \leavevmode
317 \setbox\@tempboxa
318 \vbox{%
319 \baselineskip\z@skip%
320 \lineskip.25ex%
321 \lineskiplimit-\maxdimen
322 \ialign{\hfil##\hfil\cr
323 \vbox to 2.13ex{\vss\hbox{\@numerator@fig{#1}}\vskip.68ex}\cr
324 \leavevmode\leaders\hrule height 1.1ex depth -1.01ex\hfill\cr
325 \vtop to 1ex{\vbox{\hbox{\@denominator@fig{#2}}\vss}\cr
326 \noalign{\vskip-1.47ex}}}%
327 \dp\@tempboxa=0.49ex%
328 \box\@tempboxa}
329 \newcommand*\@slantfrac[2]{%
330 {\Mn@extra@font\@@numerator@fig{#1}\kern-0.05em/\kern-0.06em\@denominator@fig{#2}}
331 \DeclareRobustCommand*\smallfrac[2]{\ensure@text{\kern0.06em\@smallfrac{#1}{#2}\kern0.09em}}

```

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

8.6 Additional symbols

Some symbols missing from MnSymbol can be taken from MinionPro.

```
333 \DeclareMathSymbol{\hbar}          {\mathord}{letters}{'265}
334 \DeclareMathSymbol{\uphbar}        {\mathord}{letters}{'255}
335 \DeclareMathSymbol{\partial}        {\mathord}{letters}{'100}
336 \DeclareMathSymbol{\uppartial}      {\mathord}{letters}{'300}
337 \DeclareMathSymbol{\ell}            {\mathord}{letters}{'140}
338 \DeclareMathSymbol{\upell}          {\mathord}{letters}{'340}
339 \DeclareMathSymbol{\slashedzero}    {\mathord}{letters}{'257}
340 \DeclareMathSymbol{\upimath}        {\mathord}{letters}{'373}
341 \DeclareMathSymbol{\upjmath}        {\mathord}{letters}{'374}
342 \DeclareMathSymbol{\lozenge}        {\mathord}{letters}{'375}
343 \DeclareMathSymbol{\varsmallint}    {\mathord}{letters}{'376}
```

Archaic Greek letters not provided by MinionPro

```
344 %\def\Qoppa{\reflectbox{P}}
345 %\def\Sampi{\begingroup\fontfamily{cmr}\fontencoding{LGR}\selectfont\char23\endgroup}
346 \let\Stigma\stigma
347 \AtBeginDocument{
348   \UndeclareTextCommand{\textvisiblespace}{T1}%
349   \UndeclareTextCommand{\textcompwordmark}{T1}%
350   \UndeclareTextCommand{\textsterling}{T1}%
351   \UndeclareTextCommand{\j}{T1}%
352   \UndeclareTextCommand{\j}{LY1}%
353 }
```

8.7 Integral symbols

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

```
354 \newcommand\Mn@Decl@Minion@Ints{%
```

Replace MnSymbolF by MnSymbolFI.

```
355   \DeclareFontFamily{U}{MnSymbolFI}{-}
356   \DeclareFontShape{U}{MnSymbolFI}{m}{it}{-}{
357     <-6> MnSymbolFI\Mn@minionint@opticals5
358     <6-7> MnSymbolFI\Mn@minionint@opticals6
359     <7-8> MnSymbolFI\Mn@minionint@opticals7
360     <8-9> MnSymbolFI\Mn@minionint@opticals8
361     <9-10> MnSymbolFI\Mn@minionint@opticals9
362     <10-12> MnSymbolFI\Mn@minionint@opticals10
363     <12-> MnSymbolFI\Mn@minionint@opticals12
364   }{}
365   \DeclareFontShape{U}{MnSymbolFI}{b}{it}{-}{
366     <-6> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals5
367     <6-7> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals6
```



```

368 <7-8> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals7
369 <8-9> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals8
370 <9-10> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals9
371 <10-12> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals10
372 <12-> MnSymbolFI\Mn@minionint@bold\Mn@minionint@opticals12
373 }{}

```

```

374 \DeclareSymbolFont{symbols} {U}{MnSymbolFI}{m}{it}
375 \SetSymbolFont{symbols}{bold}{U}{MnSymbolFI}{b}{it}

```

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

```

376 \let\varint\tint
377 \let\variint\tiint
378 \let\variiint\tiiint
379 \let\variiiint\tiiiint
380 \let\varidotsint\tidotsint
381 \let\varlandupint\tlandupint
382 \let\varlanddownint\tlanddownint
383 \let\varstrokedint\tstrokedint
384 \let\varoint\toint
385 \let\varoiint\toint
386 \let\varrcircclerightint\trcircclerightint
387 \let\varlcircclerightint\tlcircclerightint
388 \let\varrcircleleftint\trcircleleftint
389 \let\varlcircleleftint\tlcircleleftint
390 \let\varsumint\tsumint

```

Replace the symbols with the new integrals.

```

391 \DeclareMathSymbol\tint \mathop{symbols}{112}
392 \DeclareMathSymbol\tiint \mathop{symbols}{114}
393 \DeclareMathSymbol\tiiint \mathop{symbols}{116}
394 \DeclareMathSymbol\tiiiint \mathop{symbols}{118}
395 \DeclareMathSymbol\tidotsint \mathop{symbols}{120}
396 \DeclareMathSymbol\tlandupint \mathop{symbols}{122}
397 \DeclareMathSymbol\tlanddownint \mathop{symbols}{124}
398 \DeclareMathSymbol\tstrokedint \mathop{symbols}{126}
399 \DeclareMathSymbol\toint \mathop{symbols}{128}
400 \DeclareMathSymbol\toint \mathop{symbols}{130}
401 \DeclareMathSymbol\trcircclerightint \mathop{symbols}{132}
402 \DeclareMathSymbol\tlcircclerightint \mathop{symbols}{134}
403 \DeclareMathSymbol\trcircleleftint \mathop{symbols}{136}
404 \DeclareMathSymbol\tlcircleleftint \mathop{symbols}{138}
405 \DeclareMathSymbol\tsumint \mathop{symbols}{140}
406 \let\intop\tint
407 \let\ointop\toint
408 }

```

```

409 \Mn@load@integrals

```

8.8 Logos

Correct logos.

```
410 \def\TeX{T\kern-.1667em\lower.4ex\hbox{E}\kern-.125emX\@}
411 \DeclareRobustCommand{\LaTeX}{L\kern-.32em%
412     {\sbox\z@ T%
413       \vbox to\ht\z@{\hbox{\check@mathfonts
414         \fontsize\sf@size\z@
415         \math@fontsfalse\selectfont
416         A}%
417         \vss}%
418     }%
419     \kern-.15em%
420     \TeX}
```

8.9 AMS

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

```
421 \def\macc@set@skewchar#1{%
422   \begingroup
423   \ifnum\mathgroup=\m@ne \let\@tempa\@ne
424   \else
425     \ifnum\skewchar\textfont\mathgroup=\m@ne \let\@tempa\@ne
426     \else \let\@tempa\mathgroup
427   \fi
428   \fi
429   \count@=\skewchar\textfont\@tempa
430   \ifnum\count@=\m@ne
431     \endgroup
432     \def\macc@skewchar{}
433   \else
434     \advance\count@"7100
435     \edef\@tempa{\endgroup
436       \mathchardef\noexpand\macc@skewchar=\number\count@\relax}%
437     \@tempa
438   \fi
439   #1%
440 }
```

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

```
441 \normalfont
442 \end{style}
```

9 Support for character protrusion

The microtype configuration. All four MinionPro families use the same file (cf. section 10).

```
443 \*mtcfg)
444 \SetProtrusion
```

```

445 [ name      = MinionPro-OT1-Roman ]
446 { encoding = OT1,
447   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-TOsF,MinionPro-TLF},
448   shape     = n }
449 {
450   A = {40,40},
451   F = { ,60},
452   J = {90, },
453   K = { ,50},
454   L = { ,60},
455   T = {50,50},
456   V = {40,40},
457   W = {30,30},
458   X = {50,50},
459   Y = {50,50},
460   k = { ,60},
461   r = { ,80},
462   t = { ,100},
463   v = {70,70},
464   w = {40,40},
465   x = {60,60},
466   y = {70,70},
467   ! = {70,180},
468   ( = {60,30},   ) = {30,60},
469   [ = {100,160}, ] = {160,100},
470   {,} = {440,700},
471   . = {660,700},
472   : = {400,480},
473   ; = {350,440},
474   - = {700,700},
475   \textendash      = {390,480}, \textemdash      = {220,270},
476   \textquotedblleft = {380,250}, \textquotedblright = {250,380},
477   \textquoteleft    = {670,450}, \textquoteright    = {450,670},
478 }
479 \SetProtrusion
480 [ name      = MinionPro-T1-Roman,
481   load      = MinionPro-OT1-Roman ]
482 { encoding = T1,
483   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-TOsF,MinionPro-TLF},
484   shape     = n }
485 {
486   023 = { ,40}, % ff ligature
487   032 = { ,50}, % ft ligature
488   191 = {30,30}, % Th ligature
489   127 = {620,700}, % hyphen
490   \AE = {40, }, % AE
491   \quotesinglbase = {670,670}, \quotedblbase = {370,370},
492   \guilsinglleft  = {500,360}, \guilsinglright = {360,500},
493   \guillemotleft  = {320,230}, \guillemotright = {230,320},

```

```

494 }
495 \SetProtrusion
496 [ name      = MinionPro-OT1-Italic]
497 { encoding = OT1,
498   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
499   shape     = {it,sl,sw} }
500 {
501   A = {120,50},
502   B = {90,-50},
503   C = {50,-60},
504   D = {70,-30},
505   E = {90,-50},
506   F = {100,-40},
507   G = {50,-60},
508   H = {70,-40},
509   I = {150,-90},
510   J = {250,-130},
511   K = {80,-50},
512   L = {90,60},
513   M = {60,-40},
514   N = {70,-40},
515   O = {70,-30},
516   P = {70,-110},
517   Q = {40,-40},
518   R = {80,-50},
519   S = {70,-70},
520   T = {130, },
521   U = {70,-40},
522   V = {120,30},
523   W = {90,20},
524   X = {50, },
525   Y = {160, },
526   Z = {50,-50},
527   d = {60,-60},
528   f = { , -190},
529   027 = { , -70}, % ff ligature
530   g = {-70,-70},
531   i = { , -110},
532   025 = { , -60}, % dotlessi
533   028 = { , -60}, % fi ligature
534   030 = { , -30}, % ffi ligature
535   j = {-90,-150},
536   p = {-40, },
537   r = { , 80},
538   t = { , 100},
539   v = {90, },
540   w = {60,10},
541   x = {90, },
542   ! = {190,40},

```

```

543      ( = {90, },      ) = {90, },
544      [ = {90,90},    ] = {120,60},
545      {,} = {210,680},
546      . = {640,680},
547      : = {380,430},
548      ; = { ,430},
549      - = {750,750},
550      \textquoteleft  = {690,140}, \textquoteright  = {470,230},
551      \textendash     = {400,500}, \textemdash     = {220,280},
552      \textquotedblleft = {520,130}, \textquotedblright = {520,130},
553  }
554 \SetProtrusion
555 [ name      = MinionPro-T1-Italic,
556   load      = MinionPro-OT1-Italic ]
557 { encoding = T1,
558   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
559   shape     = {it,sl,sw} }
560 {
561   023 = { ,40}, % fft ligature
562   032 = { ,50}, % ft ligature
563   191 = {80,30}, % Th ligature
564   127 = {660,750}, % hyphen
565   \AE = {90,-40}, % AE
566   131 = {80,-30}, % Dcaron
567   132 = {70,-40}, % Ecaron
568   156 = {80,-60}, % IJ
569   \OE = {50,-30}, % OE
570   188 = { , -80}, % ij
571   184 = {70,70}, % ydieresis
572   253 = {70,70}, % yacute
573   \quotesinglbase = {220,700}, \quotedblbase  = {130,400},
574   \guilsinglleft  = {500,180}, \guilsinglright = {350,350},
575   \guillemotleft  = {310,110}, \guillemotright = {230,230},
576 }

```

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

```

577 \SetProtrusion
578 [ name      = MinionPro-OT1-Smallcaps ]
579 { encoding = OT1,
580   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
581   shape     = {sc,ssc} }
582 {}
583 \SetProtrusion
584 [ name      = MinionPro-T1-Smallcaps,
585   load      = MinionPro-OT1-Smallcaps ]
586 { encoding = T1,
587   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
588   shape     = {sc,ssc} }

```

```

589 {}

590 \SetProtrusion
591 [ name      = MinionPro-OT1-SmallcapsItalic ]
592 { encoding = OT1,
593   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
594   shape     = {scit,sscit} }
595 {}

596 \SetProtrusion
597 [ name      = MinionPro-T1-SmallcapsItalic,
598   load      = MinionPro-OT1-SmallcapsItalic ]
599 { encoding = T1,
600   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
601   shape     = {scit,sscit} }
602 {}

603 \SetProtrusion
604 [ name      = MinionPro-other-Roman ]
605 { encoding = {LGR,U,OT2,T2A,T2B,T2C,T5,X2},
606   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
607   shape     = n }
608 {
609   ! = {70,180},
610   ( = {60,30},    ) = {30,60},
611   [ = {100,160},  ] = {160,100},
612   {,} = {440,700},
613   . = {660,700},
614   : = {400,480},
615   ; = {350,440},
616   - = {700,700},
617   \textendash      = {390,480},   \textemdash      = {220,270},
618   \textquotedblleft = {380,250}, \textquotedblright = {250,380},
619   \textquoteleft    = {670,450},   \textquoteright    = {450,670},
620 }

621 \SetProtrusion
622 [ name      = MinionPro-other-Italic ]
623 { encoding = {LGR,U,OT2,T2A,T2B,T2C,T5,X2},
624   family   = {MinionPro-OsF,MinionPro-LF,MinionPro-T0sF,MinionPro-TLF},
625   shape     = {it,sl,sw} }
626 {
627   ! = {190,40},
628   ( = {90,  },    ) = {90,  },
629   [ = {90,90},    ] = {120,60},
630   {,} = {210,680},
631   . = {640,680},
632   : = {380,430},
633   ; = {  ,430},
634   - = {750,750},
635   \textquoteleft    = {690,140},   \textquoteright    = {470,230},
636   \textendash      = {400,500},   \textemdash      = {220,280},
637   \textquotedblleft = {520,130},   \textquotedblright = {520,130},

```

```

638 }
639 \mtcfg)

```

10 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.

```

640 (*fontdef)
641 \ifx\Mn@DeclareFontShape\undefined\else\endinput\fi

```

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

```

642 \ifx\@nodocument\relax
643   \input{otfontdef.sty}
644 \else
645   \NeedsTeXFormat{LaTeX2e}
646   \RequirePackage{otfontdef}
647 \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.

```

648 \ifx\@nodocument\relax
649   \begingroup\escapechar'\
650 \fi

```

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

```

651 \newcommand\Mn@Option@opticals{noopticals}
652 \newcommand\Mn@Option@fontset{smallfamily}
653 \newdimen\Mn@Option@normalsize
654 \global\Mn@Option@normalsize10pt

```

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

```

655 \newif\ifMn@Option@normalsize
656 \Mn@Option@normalsizetrue

657 \ifx\@nodocument\relax\else
658   \DeclareOption{slides}      {\let\Mn@Option@opticals\CurrentOption}
659   \DeclareOption{opticals}    {\let\Mn@Option@opticals\CurrentOption}
660   \DeclareOption{noopticals}  {\let\Mn@Option@opticals\CurrentOption}
661   \DeclareOption{smallfamily}{\let\Mn@Option@fontset\CurrentOption}
662   \DeclareOption{medfamily}   {\let\Mn@Option@fontset\CurrentOption}
663   \DeclareOption{fullfamily}  {\let\Mn@Option@fontset\CurrentOption}

```

```

664 \DeclareOption{normalsize} {\Mn@option@normalsizetrue}
665 \DeclareOption{nonnormalsize}{\Mn@option@normalsizefalse}
666 \ExecuteOptions{smallfamily,noopticals,normalsize}
667 \ProcessOptions\relax
668 \fi

```

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

```

669 \ifMn@option@normalsize
670 \begingroup
671 \def\set@fontsize#1#2#3#4\@nil{%
672 \@defaultunits\global\Mn@option@normalsize#2pt\relax\@nnil}%
673 \normalsize\@nil
674 \endgroup
675 \fi

```

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

```

676 \otf@makeglobal{\Mn@option@opticals}
677 \otf@makeglobal{\Mn@option@fontset}
678 \ifx\@nodocument\relax\else
679 \PackageInfo{MinionPro-FontDef}{%
680 Configuration:\space\Mn@option@fontset,\space\Mn@option@opticals,\space
681 normalsize=\the\Mn@option@normalsize}%
682 \fi

```

Configuration database

```

683 \newcount\Mn@config@cnt
684 \Mn@config@cnt=0
685 \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.

```

686 \newcommand\Mn@AddToConfig{%
687 \begingroup
688 \nfss@catcodes
689 \expandafter\endgroup
690 \Mn@AddToConfig@
691 }
692 \newcommand\Mn@AddToConfig@[3]{%
693 \advance\Mn@config@cnt\@ne
694 \@namedef{\Mn@curr@config}{#3}%
695 \otf@makeglobal{\Mn@curr@config}
696 <debug & show>\expandafter\show\csname\Mn@curr@config\endcsname
697 \@for\Mn@tempa:=#2\do{%
698 \@ifundefined{\Mn@config@#1\Mn@tempa}{%
699 \@temptokena{}%
700 }{%
701 \@temptokena\expandafter\expandafter\expandafter

```



```

702      {\csname Mn@config@#1@\Mn@tempa\endcsname}%
703    }%
704    \expandtwoargs\@namedef{Mn@config@#1@\Mn@tempa}{%
705      \the\@temptokena
706      \expandafter\noexpand\csname\Mn@curr@config\endcsname
707    }%
708    \otf@makeglobal{Mn@config@#1@\Mn@tempa}% perhaps defer to only execute once
709    <debug & show>\expandafter\show\csname Mn@config@#1@\Mn@tempa\endcsname
710  }%
711 }

```

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.

```

712 \newcommand*\Mn@UseConfig[2]{%
713   \Mn@UseConfigOrDefault{#1}{#2}{}%
714 }
715 \newcommand*\Mn@UseConfigOrDefault[3]{%
716   \ifundefined{Mn@config@#1@#2}{#3}%
717   {\@nameuse{Mn@config@#1@#2}}%
718 }
719 \newcommand*\Mn@TheConfig[2]{%
720   \ifundefined{Mn@config@#1@#2}{}%
721   \expandafter\noexpand\csname Mn@config@#1@#2\endcsname
722 }%
723 }
724 \otf@makeglobal{Mn@UseConfig}
725 \otf@makeglobal{Mn@UseConfigOrDefault}
726 \otf@makeglobal{Mn@TheConfig}

```

Here comes the configuration.

```

727 \Mn@AddToConfig{opticals}{opticals}{
728   <-8.5> otf* [optical=Capt]
729   <8.5-13.1> otf* [optical=Text]
730   <13.1-20> otf* [optical=Subh]
731   <20-> otf* [optical=Disp]
732 }
733 \Mn@AddToConfig{opticals}{noopticals}{
734   <-> otf* [optical=Text]
735 }
736 \Mn@AddToConfig{opticals}{slides}{

```

```

737     <->      otf* [optical=Capt]
738 }

739 \ifdim\Mn@Option@normalsize<10.1pt
740   \Mn@AddToConfig{fontset/weight}{fullfamily/m}{
741     <-6>      otf* [weight=Semibold]
742     <6-8.5>  otf* [weight=Medium]
743     <8.5->   otf* [weight=Regular]
744   }
745 \else
746   \Mn@AddToConfig{fontset/weight}{fullfamily/m}{
747     <-6>      otf* [weight=Semibold]
748     <6-10.1> otf* [weight=Medium]
749     <10.1->  otf* [weight=Regular]
750   }
751 \fi
752 \Mn@AddToConfig{fontset/weight}{medfamily/m}{
753   <-6>      otf* [weight=Semibold]
754   <6->      otf* [weight=Regular]
755 }
756 \Mn@AddToConfig{fontset/weight}{smallfamily/m}{
757   <->      otf* [weight=Regular]
758 }
759 %
760 \Mn@AddToConfig{fontset/weight}{fullfamily/b,medfamily/b}{
761   <-6>      otf* [weight=Bold]
762   <6->      otf* [weight=Semibold]
763 }
764 \Mn@AddToConfig{fontset/weight}{smallfamily/b}{
765   <->      otf* [weight=Bold]
766 }
767 %
768 \Mn@AddToConfig{weight}{eb}{
769   <->      otf* [weight=Bold]
770 }
771 \Mn@AddToConfig{shape}{ssc,sscit}{
772   <->      otf* [spacing=12]
773 }
774 \Mn@AddToConfig{shape}{n,it,sw,sc,scit}{
775   <-8>      otf* [spacing=11]
776 }
777 \Mn@AddToConfig{encoding/shape}{U/n,U/it}{
778   <->      otf* [spacing=]
779 }
780 %
781 \Mn@AddToConfig{shape}{sc,ssc,scit,sscit}{
782   <->      otf* [variant=sc]
783 }
784 \Mn@AddToConfig{shape}{sw}{
785   <->      otf* [variant=swash]

```

```

786 }
787 \Mn@AddToConfig{shape}{it,scit,sscit,sw}{
788     <->      otf* MinionPro-It
789 }
790 \Mn@AddToConfig{shape}{n,sc,ssc}{
791     <->      otf* MinionPro
792 }
793 \Mn@AddToConfig{encoding/shape}{OML/it}{
794     <->      otf* [figures=] MinionPro-Mixed
795 }
796 \Mn@AddToConfig{encoding/shape}{OMLfrench/it}{
797     <->      otf* [figures=] MinionPro-French
798 }

```

Substitutions

```

799 \Mn@AddToConfig{sub:series} {sb}      {b}
800 \Mn@AddToConfig{sub:series} {bx}      {b}
801 \Mn@AddToConfig{sub:shape}   {sl}      {it}
802 \Mn@AddToConfig{sub:shape}   {scsl}    {scit}
803 \Mn@AddToConfig{sub:shape}   {sscs1}   {sscit}
804 \Mn@AddToConfig{sub:shape}   {scsw}    {scit}
805 \Mn@AddToConfig{sub:shape}   {sscs1}   {sscit}
806 \Mn@AddToConfig{sub:encoding/shape}{TS1/sw}{it}

```

Code for the last argument of \DeclareFontShape

```

807 \Mn@AddToConfig{code:shape}{sw}{
808     \skewchar\font='337
809 }
810 %\Mn@AddToConfig{code:shape}{ssc,sscit}{
811 % \Mn@adjust@fontdimen2{\Mn@interword@fct} % interword space
812 % \Mn@adjust@fontdimen3{\Mn@interword@fct} % interword stretch
813 % \Mn@adjust@fontdimen4{\Mn@interword@fct} % interword shrink
814 % \Mn@adjust@fontdimen7{\Mn@interword@fct} % extra space
815 %}

```

This function is currently used to scale all four components of interword space: space, stretch, shrink, and extra space.

```

816 %\newcommand*\Mn@interword@fct{%
817 % \Mn@fontdimen=1.15\Mn@fontdimen
818 %}
819 %\otf@makeglobal\Mn@interword@fct}

```

Declaration of font families and shapes

```

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

```

Check if any substitutions are specified.

```

821 \edef\@tempa{%
822     \Mn@UseConfig{sub:series}{#4}%
823     \Mn@UseConfigOrDefault{sub:encoding/shape}{#2/#5}{%
824         \Mn@UseConfig{sub:shape}{#5}}%

```

```

825 }%
826 \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.
827 \temptokena={%
828 \DeclareFontShape{#2}{#3-#6}{#4}{#5}{%
829 \Mn@UseConfig{opticals} {\Mn@option@opticals}%
830 \Mn@UseConfig{fontset/weight}{\Mn@option@fontset/#4}%
831 \Mn@UseConfig{weight} {#4}%
832 \Mn@UseConfig{encoding/shape}{#2/#5}%
833 \Mn@UseConfig{shape} {#5}%
834 }}%
835 \edef\@tempa{\the\@temptokena{\Mn@TheConfig{code:shape}{#5}}}%
836 \@tempa
837 \else

Generate the substitution. (All substitutions are silent at the moment.)
838 \DeclareFontShape{#2}{#3-#6}{#4}{#5}{%
839 <->ssub*#3-#6%
840 /\Mn@UseConfigOrDefault{sub:series}{#4}{#4}%
841 /\Mn@UseConfigOrDefault{sub:encoding/shape}{#2/#5}{%
842 \Mn@UseConfigOrDefault{sub:shape}{#5}{#5}}%
843 }{}%
844 \fi
845 }
846 \otf@makeglobal{\Mn@DeclareFontShape}
847 \otf@makeglobal{\string\Mn@DeclareFontShape}

#2 contains the encoding, #3 the family, and #1 a list of figure versions (or Extra).
848 \newcommand*\Mn@DeclareLargeFontFamily[3][LF,OsF,TLF,TOf]{%
849 \Mn@DeclareFontFamily{#1}{#2}{#3}
850 {m,sb,b,bx,eb} {n,it,sc,ssc,scit,sscit,sw,scsl,scsw,sscs,sscs,sscs,sscs,sscs,sscs}%
851 }
852 \newcommand*\Mn@DeclareSmallFontFamily[3][LF,OsF,TLF,TOf]{%
853 \Mn@DeclareFontFamily{#1}{#2}{#3}
854 {m,sb,b,bx,eb} {n,it,sl}%
855 }
856 \newcommand*\Mn@DeclareMathFontFamily[3][TOf]{%
857 \Mn@DeclareFontFamily[\skewchar\font=255]{#1}{#2}{#3}
858 {m,sb,b,bx,eb} {it}%
859 }

An additional macro \csname\string\foo\endcsname is generated by \newcommand
for processing an optional argument of \foo.
860 \otf@makeglobal{\Mn@DeclareLargeFontFamily}
861 \otf@makeglobal{\string\Mn@DeclareLargeFontFamily}
862 \otf@makeglobal{\Mn@DeclareSmallFontFamily}
863 \otf@makeglobal{\string\Mn@DeclareSmallFontFamily}
864 \otf@makeglobal{\Mn@DeclareMathFontFamily}
865 \otf@makeglobal{\string\Mn@DeclareMathFontFamily}

```

```

866 \newcommand*\Mn@DeclareFontFamily[6] [] {%
867   \@for\Mn@variant:=#2\do{%
868     \DeclareFontFamily {#3}{#4-\Mn@variant}{#1}%
869   }%
870   \Mn@DeclareFontShapes{#3}{#4}
871     {#5} {#6} {#2}%
872 }
873 \otf@makeglobal\Mn@DeclareFontFamily}
874 \otf@makeglobal{\string\Mn@DeclareFontFamily}

875 \newcommand*\Mn@DeclareFontShapes[5] {%
876   \@for\Mn@series:=#3\do{%
877     \@for\Mn@shape:=#4\do{%
878       \@for\Mn@variant:=#5\do{%
879         \Mn@DeclareFontShape{#1}{#2}{\Mn@series}{\Mn@shape}{\Mn@variant}%
880       }%
881     }%
882   }%
883 }
884 \otf@makeglobal\Mn@DeclareFontShapes}

Adjust font dimension #1 of the current font. The function in #2 should replace the old
value in dimen \Mn@fontdimen with a new one (which may depend on other parameters
like \f@size).
885 \newdimen\Mn@fontdimen
886 \newcommand*\Mn@adjust@fontdimen[2] {%
887   \Mn@fontdimen=\fontdimen#1\font
888   #2%
889   \fontdimen#1\font=\Mn@fontdimen
890 }
891 \otf@makeglobal\Mn@adjust@fontdimen}

892 \ifx\@nodocument\relax
893   \endgroup
894 \fi

895 {*debug}
896 \newcommand\old@DeclareFontFamily{}
897 \let\old@DeclareFontFamily\DeclareFontFamily
898 \renewcommand\DeclareFontFamily[3]{
899   \begingroup\escapechar'\%
900   \edef\@tempa{\noexpand\DeclareFontFamily{#1}{#2}}%
901   \@temptokena\expandafter{\@tempa{#3}}%
902   \message{\the\@temptokena}%
903   \endgroup
904   \old@DeclareFontFamily{#1}{#2}{#3}%
905 }
906 \newcommand\old@DeclareFontShape{}
907 \let\old@DeclareFontShape\DeclareFontShape
908 \renewcommand\DeclareFontShape[6]{
909   \begingroup\escapechar'\%
910   \edef\@tempa{\noexpand\DeclareFontShape{#1}{#2}{#3}{#4}{#5}}%

```

```

911 \@temptokena\expandafter{\@tempa{#6}}%
912 \message{\the\@temptokena}%
913 \endgroup
914 \old@DeclareFontShape{#1}{#2}{#3}{#4}{#5}{#6}%
915 }
916 \</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.

```

917 \gdef\Mn@MicroType@Aliases{%
918 \DeclareMicroTypeAlias{MinionPro-LF}{MinionPro}%
919 \DeclareMicroTypeAlias{MinionPro-OsF}{MinionPro}%
920 \DeclareMicroTypeAlias{MinionPro-TLF}{MinionPro}%
921 \DeclareMicroTypeAlias{MinionPro-TOfF}{MinionPro}%
922 }
923 \@ifundefined{MicroType@Hook}{%
924 \global\let\MicroType@Hook\Mn@MicroType@Aliases
925 }{%
926 \g@addto@macro\MicroType@Hook{\Mn@MicroType@Aliases}%
927 }%
928 \@ifundefined{DeclareMicroTypeAlias}{-}{\Mn@MicroType@Aliases}%
929 \</fontdef>

```

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

```

930 \< *fd>
931 \input{MinionPro-FontDef.sty}%
932 \Uextra\Mn@DeclareSmallFontFamily[Extra]{U}{MinionPro}
933 \LGR\Mn@DeclareSmallFontFamily {LGR}{MinionPro}
934 \LGI\Mn@DeclareSmallFontFamily {LGI}{MinionPro}
935 \OML\Mn@DeclareMathFontFamily {OML}{MinionPro}
936 \OT1\Mn@DeclareLargeFontFamily {OT1}{MinionPro}
937 \T1\Mn@DeclareLargeFontFamily {T1}{MinionPro}
938 \LY1\Mn@DeclareLargeFontFamily {LY1}{MinionPro}
939 \T5\Mn@DeclareLargeFontFamily {T5}{MinionPro}
940 \T2A\Mn@DeclareSmallFontFamily {T2A}{MinionPro}
941 \T2B\Mn@DeclareSmallFontFamily {T2B}{MinionPro}
942 \T2C\Mn@DeclareSmallFontFamily {T2C}{MinionPro}
943 \TS1\Mn@DeclareLargeFontFamily {TS1}{MinionPro}
944 \X2\Mn@DeclareSmallFontFamily {X2}{MinionPro}
945 \OT2\Mn@DeclareSmallFontFamily {OT2}{MinionPro}
946 \</fd>

```