LATEX support for Fedra Sans Pro

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Abstract

This document describes the fedrasans package, which provides LATEX support for the commercial Fedra Sans Pro fonts in both text and math mode.

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1 Overview

The fedrasans package provides LATEX support for the commercial Fedra® Sans Pro fonts¹ from Typotheque². You can load this package by adding

\usepackage[\langle options \rangle] \{ fedrasans \}

to the preamble of your document. If no options are specified, this will change the default sans-serif font to Fedra Sans Pro; use the option alt to select Fedra Sans Alt Pro. In order to use Fedra Sans as the main font for the document (not only when \sffamily is selected), you can use the option sfdefault. For all available options, see Section 3.

Acknowledgements

See the acknowledgements for the fedraserif package, on which this package is based.

2 Interferences with other packages

The fedrasans package is designed as a companion to the fedraserif package, which provides LATEX support for the serif version of Fedra. Since it is not possible to switch the math fonts in the middle of a document, care has to be taken wich of the two packages

¹Fedra is a registered trademark of Typotheque VOF.

²http://www.typotheque.com/fonts/

Table 1: Summary of options

Key	Values	Section
alt	true, false*	4.1
boldweight	Medium*, Bold, auto	4.3
fedrabb	true, false*	5.3
footnotemarks	true, false*	4.6
figures	lining*(lf), text(osf)	4.5
math	true, false*	5
math-style	tex*, iso, french	5.1
normalweight	Book*, Demi, auto	4.3
sfdefault	true, false*	1, 5
stdmathdigits	true, false*	5.2

is loaded with math support. In particular, if the fedrasans package is loaded with math support (i.e. using the sfdefault or math option), then the fedraserif package must be loaded with the option math=false, or an error will occur.

In order to use Fedra Sans as a math font, you need to have the fdsymbol package (version 0.7 or higher) installed. Apart from fdsymbol, the fedrasans package automatically loads the packages textcomp and (if math support is enabled) amsmath. Additionally, the fontaxes package is loaded if it is present in your LaTeX installation. If you want to pass options to these packages, you can either load these packages beforehand, or you can include the options in the \documentclass command. If the math option is used, the fedrasans package is *not* compatible with amssymb and amsfonts (since fdsymbol is not).

3 Options

All package options are set using a $\langle key \rangle = \langle value \rangle$ syntax. Boolean options accept true and false as values, and setting a Boolean key without a value is equivalent to setting it to true. Table 1 lists all option keys of the fedrasans package with their possible values; values that are marked with an asterisk correspond to the default behaviour of the package.

4 Font selection

4.1 Variants

Fedra Sans Pro comes in two variants, which are licensed separately: the alternative variant (Fedra Sans Alt Pro) shown here is a bit more conservative than the original

Table 2: Summary of font weights

Weight	Series	Example
Light	1	A Quick Brown Fox Jumps Over The Lazy Dog.
Book	sl	A Quick Brown Fox Jumps Over The Lazy Dog.
Demi	md	A Quick Brown Fox Jumps Over The Lazy Dog.
Medium	sb	A Quick Brown Fox Jumps Over The Lazy Dog.
Bold	ub	A Quick Brown Fox Jumps Over The Lazy Dog.

variant, which features a long f, diamond-shaped dots, open counters, as well as a few other characteristics. By default, the package use the original variant. If you prefer the alternative variant, you can select it by passing the option alt.

4.2 Encodings

The package currently supports the OTI, TI, LYI, QX and T5 encodings for typesetting text with Latin characters, as well as the TSI encoding for typesetting text symbols. For typesetting text with accented characters, it is strongly recommended to change the default font encoding from OTI to TI or one of the other encodings. This can be achieved by putting \usepackage[T1]{fontenc} in the preamble of your document.

4.3 Weights

All fonts of the Fedra Sans Pro family come in five weights, which are (in increasing order) Light, Book, Demi, Medium and Bold, shown in Table 2. Of these, Book and Demi can be used as the standard text font, while Medium and Bold can be used for bold text. The option keys normalweight and boldweight allow to control which weights are used for the standard LATEX font series m and b (or bx), selected by \mdseries and \bfseries, respectively. For example, to use the Demi weight as the standard text font, use the option normalweight=Demi. By default, only the Book and the Medium weights are used. Additionally, both keys can be set to the value auto, which selects a weight depending on the font size (Book and Medium for normal and large sizes, Demi and Bold for small sizes). Independently of these options, all weights can accessed using \fontseries. For instance, the Light weight can be accessed using the command \fontseries{1}.

4.4 Shapes

In addition to the normal small caps shapes sc and scit, there are letterspaced versions ssc and sscit (see Table 3).

Table 3: Summary of font shapes

Shape	Example
n	A Quick Brown Fox Jumps Over The Lazy Dog.
it	A Quick Brown Fox Jumps Over The Lazy Dog.
sc	A QUICK BROWN FOX JUMPS OVER THE LAZY DOG.
SSC	A QUICK BROWN FOX JUMPS OVER THE LAZY DOG.
scit	A QUICK BROWN FOX JUMPS OVER THE LAZY DOG.
sscit	A QUICK BROWN FOX JUMPS OVER THE LAZY DOG.

Table 4: Summary of figure versions

	Lining figures	Text figures
Proportional	0123456789	0123456789
Tabular	0123456789	0123456789

If the fontaxes package is available, you can use the commands \sscshape and \textssc{\text}} to switch to letterspaced small caps.

4.5 Figures

Fedra Sans Pro offers four main figure versions (see 4). On the one hand, one can choose between *lining figures* and *text figures*, also known as *old-style figures*. On the other hand, one can choose between *proportional figures* and *tabular figures*.

By default, proportional lining figures are used throughout the document. If you want to use text figures instead, use the option figures=text or figures=osf.

Assuming that the fontaxes package is installed on your system, you can use the command \figureversion to switch between different figure versions inside the document. Possible arguments are text or osf for text figures, lining or lf for lining figures, tabular or tab for tabular figures, and proportional or prop for proportional figures. Note that you can combine several arguments. For example, the command \figureversion{osf, tabular} selects tabular text figures.

Small and slanted fractions are fractions with a height matching the font's body size; they can be accessed via:

Note that only figures can be used for (numerator) and (denominator).

Finally, Fedra Sans Pro offers so-called bullet figures, which are enclosed by a circle; they can be accessed via:

```
\openbullet{\(number\)} ① ② \\closedbullet{\(number\)} ⑤ ②
```

As for small and slanted fractions, only figures can be used for $\langle number \rangle$.

4.6 Footnotes

By setting the option footnotemarks, footnote marks are set using special characters designed for this purpose, i.e. 1,a instead of 1,a . However, this only works for footnote marks that consist of figures and the lowercase letters a-z.

4.7 Dingbats

Fedra Sans Pro provides a large set of ornamental characters, which can be typeset using the following command:

```
\ding{\(\lamber\rangle\)}
```

More commands are made available by the pifont package, which is automatically loaded if present. The available glyphs are listed in Table 5.

4.8 Additional notes

Fedra Sans Pro implements a large subset of the glyphs made available by the TSI encoding. However, the following glyphs are missing:

\textdblhyphen	\textlangle	\textrangle
\textdivorced	\textdied	\textleaf
\textmarried	\textmusicalnote	\textdblhyphenchar
\textdollaroldstyle	\textcentoldstyle	\textacutedbl
\textgravedbl	\textguarani	\textrecipe
\textpertenthousand	\textpilcrow	\textbaht
\textdiscount	\textopenbullet	\textlquill
\textrquill	\textcopyleft	\textreferencemark

In addition to the monetary symbols defined by the TSI encoding, the following currency symbols are available:

Œ	\textcruzeiro	Fr	\textfranc	ŋή	\textmill
Pts	\textpeseta	Rs	\textrupee	回	\textsheqel
ĸ	\textkip	₮	\texttugrik	ϵ	\texthryvnia

Table 5: Dingbats available with the fedrasans package

number	glyph	number	glyph	number	glyph	number	glyph
100		120	•	140	+	160	
101	•	121	©	141	•	161	
102		122	•	142	Ī	162	•
103		123	\Diamond	143	€	163	Ħ
104		124	0	144	(m/s	164	₽
105	•	125	⊚	145	Lys.	165	₩
106	4	126	⊗	146	✓	166	i
107	Þ	127	8	147		167	۵
108	4	128	①	148	\checkmark	168	9
109	•	129	☺	149	⊠	169	AND WALL
110	◄	130	*	150	\bowtie	170	PROBETY
111	\triangleright	131	•	151		171	*
112	◁	132	\rightarrow	152	6	172	Same S
113	>	133	←	153	í	173	*
114	◀	134	↑	154		174	Q
115	\triangleright	135	\downarrow	155	₽	175	~
116	\triangleleft	136	7	156	ద	176	
117	•	137	Γ,	157	•		
118	0	138	∠	158	Ø		
119	•	139	Я	159	0		

Table 6: The different styles for letters in math mode

math-style	example
tex	$a, b, \ldots, A, B, \ldots, a, \beta, \ldots, \Gamma, \Delta, \ldots$
iso	$a, b, \ldots, A, B, \ldots, a, \beta, \ldots, \Gamma, \Delta, \ldots$
french	$a, b, \ldots, A, B, \ldots, \alpha, \beta, \ldots, \Gamma, \Delta, \ldots$

5 Math support

By default, we only change the math font to Fedra Sans Pro (with mathematical symbols taken from FdSymbol) if the option sfdefault has been selected. In order to allow for a more fine-grained control, you can enable or disable math support using the math option. Note that all other options described in this section only have an effect if math support is enabled.

5.1 Letters

In T_EX and L^AT_EX, uppercase Greek letters are traditionally set upright in math mode, even when they are used as variables. This differs from the ISO standards ISO31-0:1992 to ISO31-13:1992, which mandate italics in this case. While the package employs the T_EX tradition by default, you can select the ISO behaviour by setting the option math-style=iso. Independently of this option, you can alyways select upright and italic greek letters using the commands \upalpha, \italpha, \upGamma, \itGamma, etc. Additionally, the math-style key can take the value french, in which case all Greek and uppercase roman letters are typeset upright. For an illustration of the differences between the three values for math-style, see Table 6.

The fedrasans package provides all letters available in math mode with the Computer Modern fonts, with the exception of \varpi and \varrho, which have the same shape as \pi and \rho, respectively. Additionally, the following letters and letter-like symbols are can be typeset:

в	\varbeta³	f	\digamma³	Э	\backepsilon³
3	\varbackepsilon³	ħ	\hslash	λ	\lambdabar
λ	\lambdaslash	ð	\eth³	0	\slashedzero
Ω	\mho	l	\upell	ħ	\uphbar

5.2 Digits

By default, digits in math mode are typeset in the default figure version for text mode (as selected by the figures key). To use lining figures in math mode even

³The shape of the symbol is different if the option math-style=french is selected. Upright and italic shapes are also available directly via the commands \up(cmd) and \it(cmd), respectively.

if figures=text is active, set the option stdmathdigits.

Apart from the standard math versions normal and bold, the package introduces two new math versions tabular and boldtabular, in which digits are typeset as tabular figures.

5.3 Blackboard characters

If you also have the fedraserif package installed, you can use the option fedrabb to change the math blackboard alphabet to Fedra Serif. See the documentation of the fedraserif package for more information. Note that for this option to work, the fedraserif package must be loaded *before* the fedrasans package.

6 NFSS classification

Table 7 lists all fonts made available with this package. Parenthesised combinations are provided via substitutions.

7 Implementation

7.1 Options

We use xkeyval's key mechanism to declare all options.

```
1 (*package)
2 \RequirePackage{xkeyval}
3 \newcommand*\fdrss@boolkey[2]{%
4 \define@boolkey{fedrasans.sty}[fdrss@]{#1}[true]{#2}%
5 }
6 \newcommand*\fdrss@choicekey[3]{%
7 \define@choicekey*{fedrasans.sty}{#1}[\@tempa\@tempb]{#2}{#3}%
8 }
```

Font selection

The package fedrasans-fd adapts the font definitions to the requested font set (see Section 9). So we simply pass on the relevant options. Additional care has to be taken to pass the right options to fdsymbol.

```
9 \fdrss@choicekey{normalweight}{book,demi,auto}{%
10 \PassOptionsToPackage{normalweight=#1}{fedrasans-fd}%
11 \ifcase\@tempb\relax
12 \PassOptionsToPackage{normalweight=book}{fdsymbol}%
13 \or
14 \PassOptionsToPackage{normalweight=regular}{fdsymbol}%
```

Table 7: NFSS classification

Encoding	Family	Series	Shape
OTI, TI, TSI, LYI, QX, T5	FedraSansPro-LF, FedraSansPro-OsF, FedraSansPro-TLF, FedraSansPro-TOsF, FedraSansAltPro-LF, FedraSansAltPro-OsF, FedraSansAltPro-TLF, FedraSansAltPro-TOsF	l, sl, m, md, b (bx), sb, ub	n, it (sl), sc, scit (scsl), ssc, sscit (sscsl)
OML	FedraSansPro-TOsF (FedraSansPro-LF, FedraSansPro-OsF, FedraSansPro-TLF), FedraSansAltPro-TOsF (FedraSansAltPro-LF, FedraSansAltPro-OsF, FedraSansAltPro-TLF)	sl, m, md, b (bx), sb, ub	n, it
U	FedraSansPro-Extra, FedraSansAltPro-Extra	l, sl, m, md, b (bx), sb, ub	n, it (sl)
U	FedraSansPro-Pi, FedraSansAltPro-Pi	l, sl, m, md, b (bx), sb, ub	n

```
15 \or
16 \PassOptionsToPackage{normalweight=auto}{fdsymbol}%
17 \fi
18 }
19 \fdrss@choicekey{boldweight}{medium,bold,auto}{%
20 \PassOptionsToPackage{boldweight=#1}{fddrssans-fd}%
21 \PassOptionsToPackage{boldweight=#1}{fdsymbol}%
22 }
The next option sets the default font to a sans-serif font.
23 \fdrss@boolkey{sfdefault}{%
24 \iffdrss@sfdefault\renewcommand{\familydefault}{\sfdefault}\fdrss@mathtrue\fi%
25 }
The next option toggles the math font setup.
26 \fdrss@boolkey{math}{}
```

Variant and figure style

```
27 \newcommand\fdrss@family{FedraSansPro}
28 \newcommand\fdrss@textfig{LF}
29 \newcommand\fdrss@mathfig{\fdrss@textfig}
30 \newcommand\fdrss@textfamily{\fdrss@family-\fdrss@textfig}
\verb| 31 \end{fdrss@mathfamily} {\fdrss@family-\fdrss@mathfig}| \\
32 \newcommand\fdrss@mathtfamily{\fdrss@family-T\fdrss@mathfig}
33 \newcommand\fdrss@pifamily{\fdrss@family-Pi}
34 \newcommand\fdrss@mathshape{it}
35 \fdrss@boolkey{alt}{%
36 \iffdrss@alt\renewcommand\fdrss@family{FedraSansAltPro}\fi%
37 }
38\fdrss@choicekey{figures}{text,osf,lining,lf}{%
39
   \ifcase\@tempb\relax
40
      \renewcommand\fdrss@textfig{OsF}%
41
      \renewcommand\fdrss@textfig{OsF}%
42
43
      \renewcommand\fdrss@textfig{LF}%
44
45
      \renewcommand\fdrss@textfig{LF}%
46
47
   \fi
48 }
49 \fdrss@boolkey{stdmathdigits}{%
   \iffdrss@stdmathdigits
      \renewcommand\fdrss@mathfig{LF}%
51
52 \fi
53 }
```

Math styles

```
54 \newif\iffdrss@greek@upper@upright
55 \newif\iffdrss@greek@lower@upright
56 \fdrss@choicekey{math-style}{tex,iso,french}{%
    \ifcase\@tempb\relax
57
      \fdrss@greek@upper@uprighttrue
58
      \fdrss@greek@lower@uprightfalse
59
60
      \fdrss@greek@upper@uprightfalse
61
      \fdrss@greek@lower@uprightfalse
62
   \or
63
      \fdrss@greek@upper@uprighttrue
64
65
      \fdrss@greek@lower@uprighttrue
66
      \renewcommand\fdrss@mathshape{n}
  \fi
67
68 }
```

Other options

This options redefines the blackboard bold alphabet to use Fedra Serif's blackboard letters

```
69\fdrss@boolkey{fedrabb}{%
70 \iffdrss@fedrabb
71 \renewcommand\fdrss@load@bb{%
72 \DeclareMathAlphabet\mathbb{U}{\fdrsf@family-BB}{m}{n}%
73 \renewcommand\Bbbk{\mathbb{k}}%
74 }%
75 \fi
76 }
77\newcommand\fdrss@load@bb{}
```

This option allows to use superior figures for footnote marks. If possible, we use the commands \deffootnotemark and \deffootnote provided by the KOMA-Script classes to change the formatting of footnote marks. Otherwise, we need to redefine \@makefnmark.

```
78 \fdrss@boolkey{footnotemarks}{%
79
   \iffdrss@footnotemarks
      \@ifundefined{deffootnotemark}{%
80
        \def\@makefnmark{%
81
          \begingroup
82
83
          \usefont{U}{\fdrss@family-Extra}{m}{n}%
          \@thefnmark\kern0.1em%
84
          \endgroup
        }%
86
87
      }{%
```

```
\deffootnotemark{%
 88
 89
              \begingroup
              \label{local-prop} $$ \operatorname{U}_{\sigma}(T_{\sigma}) = \operatorname{L}_{\sigma}(T_{\sigma})^{\sigma} . $$
 90
              \thefootnotemark
 91
              \endgroup
 92
 93
           }%
         }%
 94
 95
         \@ifundefined{deffootnote}{}{%
            \deffootnote[1em]{1.5em}{1em}{%
 96
              \begingroup
 97
              \usefont{U}{\fdrss@family-Extra}{m}{n}%
 98
              \thefootnotemark\kern0.1em%
 99
              \endgroup
100
           }%
101
102
         }%
      \fi
103
104 }
```

Defaults

```
105 \ExecuteOptionsX{math-style=tex}
106 \ProcessOptionsX\relax
```

7.2 Font selection

```
107 \RequirePackage[scale=0.9]{fedrasans-fd}
108 \@ifpackageloaded{textcomp}{}{\RequirePackage{textcomp}}
109 \renewcommand\sfdefault{\fdrss@textfamily}
110 \@for\fdrss@fam:=FedraSansPro,FedraSansAltPro\do{%
111 \@for\fdrss@fig:=LF,TLF,OsF,TOsF\do{%
112 \DeclareEncodingSubset{TS1}{\fdrss@fam-\fdrss@fig}{1}%
113 }%
114 }
```

In order to accommodate ligatures and glyph variants, we had to remove some glyphs from the standard encodings, but most of them can still be accessed through the TSI encoding.

```
115 \AtBeginDocument{
     \UndeclareTextCommand{\textcompwordmark}{T1}
116
     \UndeclareTextCommand{\textvisiblespace}{T1}
117
     \UndeclareTextCommand{\textperthousand}{T1}
118
119
    \UndeclareTextCommand{\textpertenthousand}{T1}
    \UndeclareTextCommand{\textsterling}{T1}
120
     \UndeclareTextCommand{\textsection}{T1}
121
     \UndeclareTextCommand{\textmu}{QX}
122
123
     \UndeclareTextCommand{\texteuro}{QX}
```

```
\UndeclareTextCommand{\textEuro}{QX}
124
     \let\textEuro\texteuro
125
     \UndeclareTextCommand{\textdagger}{QX}
126
     \UndeclareTextCommand{\textdaggerdbl}{QX}
     \UndeclareTextCommand{\textdegree}{QX}
128
     \UndeclareTextCommand{\textsection}{QX}
129
     \UndeclareTextCommand{\textregistered}{QX}
130
131
     \UndeclareTextCommand{\copyright}{QX}
132
     \let\copyright\textcopyright
     \UndeclareTextCommand{\textdiv}{QX}
133
     \UndeclareTextCommand{\textminus}{QX}
134
     \UndeclareTextCommand{\texttimes}{QX}
135
     \UndeclareTextCommand{\textpm}{QX}
136
     \UndeclareTextCommand{\textbullet}{QX}
137
138
     \UndeclareTextCommand{\textcurrency}{QX}
     \UndeclareTextCommand{\textperthousand}{QX}
139
140
     \UndeclareTextCommand{\textanglearc}{QX}
     \UndeclareTextCommand{\textvisiblespace}{T5}
141
Additional currency symbols are stored in empty slots of the TS1 encoding.
     \DeclareTextSymbol{\textcruzeiro}{TS1}{192}
142
143
     \DeclareTextSymbol{\textfranc}{TS1}{193}
     \DeclareTextSymbol{\textmill}{TS1}{194}
144
     \DeclareTextSymbol{\textpeseta}{TS1}{195}
145
     \DeclareTextSymbol{\textrupee}{TS1}{196}
146
     \DeclareTextSymbol{\textshegel}{TS1}{197}
147
148
     \DeclareTextSymbol{\textkip}{TS1}{198}
     \DeclareTextSymbol{\texttugrik}{TS1}{199}
149
     \DeclareTextSymbol{\texthryvnia}{TS1}{200}
150
     \DeclareTextSymbolDefault{\textcruzeiro}{TS1}
151
     \DeclareTextSymbolDefault{\textfranc}{TS1}
152
     \DeclareTextSymbolDefault{\textmill}{TS1}
153
     \DeclareTextSymbolDefault{\textpeseta}{TS1}
154
     \DeclareTextSymbolDefault{\textrupee}{TS1}
155
     \DeclareTextSymbolDefault{\textsheqel}{TS1}
156
157
     \DeclareTextSymbolDefault{\textkip}{TS1}
     \DeclareTextSymbolDefault{\texttugrik}{TS1}
158
159
     \DeclareTextSymbolDefault{\texthryvnia}{TS1}
160 }
    The font selection commands such as \figureversion and \textssc are provided
by the fontaxes package.
161 \IfFileExists{fontaxes.sty}{
     \RequirePackage{fontaxes}[2007/03/31]
163
     \let\oldstylenums\textfigures
164 }{}
```

7.3 Math font setup

We use FdSymbol for most mathematical symbols.

```
165 \iffdrss@math
166 \RequirePackage[scale=0.9,opstyle=sans]{fdsymbol}[2011/11/01]
```

Some math symbols are taken from the text font by fdsymbol. Use the correct math figure version for these.

```
167 \renewcommand\fdsy@text[1]{%
168 \ifx\fdsy@bold\math@version
169 \text{\usefont{T1}{\fdrss@mathfamily}{b}{n}#1}%
170 \else
171 \text{\usefont{T1}{\fdrss@mathfamily}{m}{n}#1}%
172 \fi
173 }
```

Redefine the standard math versions normal and bold.

```
\label{thm:local_continuous_problem} $$ \ \ \end{tikzpicture} $$ \ \end{tikzpicture} $$$ \ \end{ti
```

 $\label{local_state} $$175 \ \SetSymbolFont{operators}{bold}{T1}{\sigmass@mathfamily}{b}{n}$$

178 \DeclareMathAlphabet{\mathrm}{T1}{\fdrss@mathfamily}{m}{n}

 $\label{lem:local_to_the_local$

\lambda \SetMathAlphabet{\mathit}{bold}{T1}{\fdrss@mathfamily}{b}{it}

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

```
183 \DeclareMathVersion{tabular}
```

```
\SetSymbolFont{operators}{tabular}{T1}{\fdrss@mathtfamily}{m}{n}
```

185 \SetMathAlphabet{\mathrm}{tabular}{T1}{\fdrss@mathtfamily}{m}{n}

186 \SetMathAlphabet{\mathit}{tabular}{T1}{\fdrss@mathtfamily}{m}{it}

188 \DeclareMathVersion{boldtabular}

\lambda \SetMathAlphabet{\mathrm}{boldtabular}{T1}{\fdrss@mathtfamily}{b}{n}

 $\label{lem:local_to_the_property} $$192 \ \end{$\mathbb{T}1}_{\sigma}^{T1}_$

 $\label{lem:local_local$

- 194 \DeclareMathAccent{\grave}{\mathalpha}{operators}{"00}
- 195 \DeclareMathAccent{\acute}{\mathalpha}{operators}{"01}
- $\label{local-pha} $$ \ \end{\hat}{\mathbf{02}} $$ \end{\hat}{\mathbf{02}} $$$
- 197 \DeclareMathAccent{\tilde}{\mathalpha}{operators}{"03}
- 198 \DeclareMathAccent{\ddot}{\mathalpha}{operators}{"04}
- 199 \DeclareMathAccent{\mathring}{\mathalpha}{operators}{"06}

```
\DeclareMathAccent{\check}{\mathalpha}{operators}{"07}
200
    \DeclareMathAccent{\breve}{\mathalpha}{operators}{"08}
201
    \DeclareMathAccent{\bar}{\mathalpha}{operators}{"09}
202
    \DeclareMathAccent{\dot}{\mathalpha}{operators}{"0A}
203
    \let\hbar\undefined
204
    \DeclareMathSymbol{\hbar}{\mathord}{letters}{"AE}
205
    \DeclareMathSymbol{\uphbar}{\mathord}{letters}{"B5}
206
207
     \DeclareMathSymbol{\partial}{\mathord}{letters}{"40}
    \DeclareMathSymbol{\ell}{\mathord}{letters}{"60}
208
    \DeclareMathSymbol{\upell}{\mathord}{letters}{"B9}
209
    \DeclareMathSymbol{\slashedzero}{\mathord}{letters}{"B8}
210
    \let\mho\undefined
211
    \DeclareMathSymbol{\mho}{\mathord}{letters}{"BA}
212
    \DeclareMathSymbol{\nabla}{\mathord}{letters}{"BB}
213
214
    \DeclareRobustCommand{\lambdabar}{\middlebar\lambda}
    \DeclareRobustCommand{\lambdaslash}{\middleslash\lambda}
```

Execute the hook set up above to redefine the mathbb alphabet.

216 \fdrss@load@bb

7.4 Greek and Hebrew letters

We provide three math-mode commands for each Greek letter: for italic, upright and the default.

```
\newcommand*{\fdrss@greek@capital}[3]{
217
218
       \expandafter\DeclareMathSymbol%
         \expandafter{\csname it#1\endcsname}{\mathord}{letters}{#2}
219
       \expandafter\DeclareMathSymbol%
220
         \expandafter{\csname up#1\endcsname}{\mathord}{letters}{#3}
221
       \iffdrss@greek@upper@upright
222
       \expandafter\let\csname #1\expandafter\endcsname\csname up#1\endcsname
223
       \else
224
       \expandafter\let\csname #1\expandafter\endcsname\csname it#1\endcsname
225
       \fi
226
    }
227
228
    \newcommand*{\fdrss@greek@letter}[3]{
       \expandafter\DeclareMathSymbol%
229
         \expandafter{\csname it#1\endcsname}{\mathord}{letters}{#2}
230
       \expandafter\DeclareMathSymbol%
231
         \expandafter{\csname up#1\endcsname}{\mathord}{letters}{#3}
232
       \iffdrss@greek@lower@upright
233
       \expandafter\let\csname #1\expandafter\endcsname\csname up#1\endcsname
234
      \else
235
       \expandafter\let\csname #1\expandafter\endcsname it#1\endcsname
236
237
       \fi
```

```
238
     \fdrss@greek@capital{Gamma}{"00}{"80}
239
     \fdrss@greek@capital{Delta}{"01}{"81}
240
     \fdrss@greek@capital{Theta}{"02}{"82}
     \fdrss@greek@capital{Lambda}{"03}{"83}
242
     \fdrss@greek@capital{Xi}{"04}{"84}
243
     \fdrss@greek@capital{Pi}{"05}{"85}
244
245
     \fdrss@greek@capital{Sigma}{"06}{"86}
     \fdrss@greek@capital{Upsilon}{"07}{"87}
246
     \fdrss@greek@capital{Phi}{"08}{"88}
247
     \fdrss@greek@capital{Psi}{"09}{"89}
248
     \fdrss@greek@capital{Omega}{"0A}{"8A}
249
     \fdrss@greek@letter{alpha}{"0B}{"8B}
250
     \fdrss@greek@letter{beta}{"0C}{"8C}
251
252
     \fdrss@greek@letter{gamma}{"0D}{"8D}
     \fdrss@greek@letter{delta}{"0E}{"8E}
253
     \fdrss@greek@letter{epsilon}{"0F}{"8F}
254
     \fdrss@greek@letter{zeta}{"10}{"90}
255
     \fdrss@greek@letter{eta}{"11}{"91}
256
     \fdrss@greek@letter{theta}{"12}{"92}
257
     \fdrss@greek@letter{iota}{"13}{"93}
258
259
     \fdrss@greek@letter{kappa}{"14}{"94}
     \fdrss@greek@letter{lambda}{"15}{"95}
260
     \fdrss@greek@letter{mu}{"16}{"96}
261
     \fdrss@greek@letter{nu}{"17}{"97}
262
     \fdrss@greek@letter{xi}{"18}{"98}
263
     \fdrss@greek@letter{pi}{"19}{"99}
264
     \fdrss@greek@letter{rho}{"1A}{"9A}
265
     \fdrss@greek@letter{sigma}{"1B}{"9B}
266
     \fdrss@greek@letter{tau}{"1C}{"9C}
267
     \fdrss@greek@letter{upsilon}{"1D}{"9D}
268
     \fdrss@greek@letter{phi}{"1E}{"9E}
269
     \fdrss@greek@letter{chi}{"1F}{"9F}
270
     \fdrss@greek@letter{psi}{"20}{"A0}
271
     \fdrss@greek@letter{omega}{"21}{"A1}
272
273
     \fdrss@greek@letter{varepsilon}{"22}{"A2}
     \fdrss@greek@letter{vartheta}{"23}{"A3}
274
     \fdrss@greek@letter{varpi}{"19}{"99}
275
     \fdrss@greek@letter{varrho}{"1A}{"9A}
276
     \fdrss@greek@letter{varsigma}{"26}{"A6}
277
278
     \fdrss@greek@letter{varphi}{"27}{"A7}
```

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

```
279 \fdrss@greek@letter{varbeta}{"A8}{"B0}
280 \fdrss@greek@letter{digamma}{"A9}{"B1}
```

```
281 \fdrss@greek@letter{backepsilon}{"AA}{"B2}
282 \fdrss@greek@letter{varbackepsilon}{"AB}{"B3}
283 \fdrss@greek@letter{eth}{"AC}{"B4}
284 \fi
```

7.5 Dingbats

We redefine some of the commands provided by the pifont package to replace Zapf Dingbats by Fedra Sans's dingbats font.

```
285 \IfFileExists{pifont.sty}{
    \RequirePackage{pifont}[2005/04/12]
    \renewcommand{\ding}{\Pisymbol{\fdrss@pifamily}}
287
288
    \renewcommand{\dingfill}{\Pifill{\fdrss@pifamily}}
    \renewcommand{\dingline}{\Piline{\fdrss@pifamily}}
289
    \renewenvironment{dinglist}[1]{\begin{Pilist}{\fdrss@pifamily}{##1}}%
290
      {\end{Pilist}}
291
292
    \renewenvironment{dingautolist}[1]{\begin{Piautolist}{\fdrss@pifamily}{##1}}%
      {\end{Piautolist}}
293
294 }{
    295
296 }
```

7.6 Bullet figures

We provide two commands to access Fedra's bullet figures.

```
297 \newcommand*{\fdrss@@openbullet}[2]{%
    \ifx#2\end
298
       \char3#1%
299
       \let\next\@gobble
300
301
    \else
       \char2#1\kern-0.02em%
302
303
       \let\next\fdrss@@openbullet
    \fi
304
    \next#2%
305
306 }
307 \newcommand*{\fdrss@openbullet}[2]{%
308
    \fx#2\end
       \char0#1%
309
       \let\next\@gobble
310
    \else%
311
       \char1#1\kern-0.02em%
312
       \let\next\fdrss@@openbullet
313
    \fi
314
    \next#2%
315
```

```
316 }
317 \DeclareRobustCommand*{\openbullet}[1]{%
    \begingroup
318
    \usefont{U}{\fdrss@family-Pi}{m}{n}%
    \ensuremath{\del{def}}\
320
    \endgroup
322 }
323 \newcommand*{\fdrss@@closedbullet}[2]{%
   \ifx#2\end
324
325
      \char7#1%
      \let\next\@gobble
326
327
      \char6#1\kern-0.02em%
328
      \let\next\fdrss@@closedbullet
329
330
    \next#2%
331
332 }
333 \newcommand*{\fdrss@closedbullet}[2]{%
   \ifx#2\end
334
      \char4#1%
335
      \let\next\@gobble
336
337
    \else
      \char5#1\kern-0.02em%
338
      \let\next\fdrss@@closedbullet
339
   \fi
340
341
    \next#2%
342 }
343 \DeclareRobustCommand*{\closedbullet}[1]{%
    \begingroup
    \usefont{U}{\fdrss@family-Pi}{m}{n}%
    \endgroup
347
348 }
```

7.7 Superior and inferior figures

The following command converts numbers to inferior figures.

```
349 \newcommand*{\fdrss@@inferior}[1]{%
350 \ifx#1\end
351 \let\next\relax
352 \else
353 \char"1#1%
354 \let\next\fdrss@@inferior
355 \fi
```

```
\next
 356
 357 }
358 \newcommand*{\fdrss@inferior}[1]{%
                                 \begingroup
                                \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mb
 360
                                \endgroup
 361
 362 }
   \fdrss@ensuretext switches to text mode, if necessary.
 363 \newcommand*{\fdrss@ensuretext}[1]{%
                               \ifmmode
 364
                                               \fdsy@text{#1}%
 365
                                \else
 366
                                               #1%
 367
 368
                               \fi
 369 }
   We provide two commands for generating numerical fractions.
 370 \newcommand*{\fdrss@smallfrac}[2]{%
                                 \begingroup
 371
                             \label{thm:locality} $$ \end{tikzpicture} $$ \operatorname{U}\operatorname{U}\operatorname{U}\operatorname{Cont} = \operatorname{Cont}\operatorname{Cont} = \operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}\operatorname{Cont}
 372
                                \leavevmode
 373
                                \setbox\@tempboxa\vbox{%
 374
                                                \baselineskip\z@skip%
 375
  376
                                                \lineskip.25ex%
                                                \lineskiplimit-\maxdimen
 377
                                                \ialign{\hfil##\hfil\crcr
 378
                                                              \vbox to 1.25ex{\vss\hbox{#1}\vskip.25ex}\crcr
 379
                                                              \leavevmode\leaders\hrule height 0.91ex depth -0.87ex\hfill\crcr
  380
  381
                                                              \vtop to 1ex{\vbox{}\hbox{\fdrss@inferior{#2}}\vss}\crcr
                                                              \noalign{\vskip-1.2ex}}}%
 382
                                \box\@tempboxa
  383
                                \endgroup
 384
 385 }
 386 \DeclareRobustCommand*{\smallfrac}[2]{%
                                 \fdrss@ensuretext{\kern0.08em\fdrss@smallfrac{#1}{#2}\kern0.1em}\%
 387
 388 }
 389 \newcommand*{\fdrss@slantfrac}[2]{%
                                \begingroup
                             #1\kern-0.05em/\kern0em\fdrss@inferior{#2}%
 392
                                 \endgroup
 393
 394 }
 395 \DeclareRobustCommand*{\slantfrac}[2]{%
                               \fdrss@ensuretext{\kern0.08em\fdrss@slantfrac{#1}{#2}\kern0.1em}%
 397 }
```

7.8 Logos

```
398 \iffdrss@sfdefault
    \DeclareRobustCommand{\LaTeX}{L\kern-.26em%
      {\sbox\z@ T%
400
        401
         \fontsize\sf@size\z@
402
         \math@fontsfalse\selectfont
403
404
         A}%
        \vss}%
405
406
      }%
      \kern-.05em%
407
      \TeX
408
409
   }
410 \fi
```

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

411 \normalfont
412 \langle / package \rangle

8 Microtype configuration file

The microtype configuration. All four families use the same file (cf. section 9).

```
413 (*mtcfg)
414 \SetProtrusion
     [ name = FedraSansPro-n ]
     { }
416
417
     {
         . = \{ ,700\},
418
        \{,\}=\{,500\},
419
        : = \{ ,500 \},
420
         ; = { ,300},
421
422
         ! = \{ ,100 \},
         ? = \{ ,100\},
423
         0 = \{50, 50\},\
424
         ^{\sim} = \{200, 250\},
425
        \% = \{50, 50\},\
426
         * = \{200, 200\},\
427
         + = \{250, 250\},\
428
429
         ( = \{100, \},
                              ) = {
                                        ,200},
         / = \{100, 200\},\
430
431
         - = \{600, 600\},\
         \textendash
                              = \{450, 450\},
                                                \textemdash
                                                                       = \{260, 260\},\
432
433
         \textquoteleft
                              = \{300,400\},
                                                \textquoteright
                                                                       = \{300, 400\},\
         \text{textquotedblleft} = \{300,300\},
                                                \textquotedblright = {300,300}
434
       }
435
```

```
436 \SetProtrusion
      [ name
                  = FedraSansPro-OT1,
437
                  = FedraSansPro-n
438
        load
      { encoding = {OT1},
439
       family
                = {FedraSansPro-OsF, FedraSansPro-TLF, FedraSansPro-TOsF, FedraSansPro-TLF, %
440
                  FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
441
                  = {n,sc,ssc} }
442
        shape
443
      { }
444 \SetProtrusion
445
      [ name
                  = FedraSansPro-T1,
                  = FedraSansPro-n
446
        load
      { encoding = {T1,LY1},
447
                = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
448
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
449
450
        shape
                  = {n,sc,ssc} }
      {
451
        _{-} = \{100, 100\},
452
        \textbackslash
                             = \{100, 200\},\
453
                                                                   = \{400,400\},
        \quotesinglbase
                             = \{400, 400\},
                                              \quotedblbase
454
455
        \guilsinglleft
                             = \{400,300\},\
                                              \guilsinglright
                                                                   = \{300, 400\},\
        \guillemotleft
                             = \{200, 200\},
                                              \guillemotright
                                                                   = \{200, 200\},\
456
        \textexclamdown
                             = \{100,
                                              \textquestiondown
                                                                   = \{100,
457
                                        },
                             = \{400, 200\},
                                              \textbraceright
        \textbraceleft
                                                                   = \{200, 400\},
458
        \textless
                             = \{200, 100\},\
                                             \textgreater
                                                                   = \{100, 200\}
459
460
      }
461 \SetProtrusion
      [ name
                  = FedraSansPro-QX,
462
                  = FedraSansPro-n
463
        load
      \{ encoding = \{QX\}, \}
464
                = {FedraSansPro-OsF, FedraSansPro-TLF, FedraSansPro-TLF, %
465
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsf, FedraSansAltPro-TLF},
466
        shape
                  = {n,sc,ssc} }
467
468
      {
        _{-} = {100,100},
469
                                                                   = \{100, 200\},\
                                              \textellipsis
470
        \textbackslash
                             = \{100, 200\},\
        \textperiodcentered = {500,700},
                                             \quotedblbase
                                                                   = \{400, 400\},
471
        \textquotedb1
                             = \{400, 400\},
                                              \textquotesingle
                                                                   = \{400, 400\},
472
                                                                   = {200,200},
473
        \guillemotleft
                             = \{200, 200\},\
                                              \guillemotright
        \textexclamdown
                             = {100,
                                              \textquestiondown
                                                                   = {100,
                                        },
                                                                              },
474
        \textbraceleft
                             = \{400, 200\},\
                                              \textbraceright
                                                                   = \{200, 400\},\
475
        \textless
                             = \{200, 100\},\
                                             \textgreater
                                                                   = \{100, 200\}
476
477
      }
478 \SetProtrusion
                  = FedraSansPro-T5,
      [ name
```

```
load
                   = FedraSansPro-n
480
      \{ encoding = \{T5\}, \}
481
        family = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
482
                   FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsf, FedraSansAltPro-TLF},
483
         shape
                   = {n,sc,ssc} }
484
485
       {
         _{-} = \{100, 100\},
486
487
         \textbackslash
                              = \{100, 200\},\
         \quotesinglbase
488
                              = \{400, 400\},\
                                                \quotedblbase
                                                                      = \{400, 400\},
         \guilsinglleft
                              = \{400,300\},
                                                \guilsinglright
                                                                      = \{300, 400\},
489
         \guillemotleft
                              = \{200, 200\},\
                                                \guillemotright
                                                                      = \{200, 200\},\
490
         \textbraceleft
                              = \{400, 200\},\
                                                \textbraceright
                                                                      = \{200, 400\},\
491
492
         \textless
                              = \{200, 100\},\
                                                \textgreater
                                                                      = \{100, 200\}
       }
493
494 \SetProtrusion
     [ name
                  = FedraSansPro-it ]
495
     {
         }
496
     {
497
498
         . = \{ ,500 \},
499
        \{,\}=\{,500\},
         : = \{ ,300\},
500
         ; = { ,300},
501
         & = \{50, 50\},\
502
        \% = \{100, \},
503
         * = \{200, 200\},\
504
         + = \{150, 200\},\
505
         0 = \{50, 50\},\
506
         ^{\sim} = \{150, 150\},
507
508
         ( = \{200, \},
                            ) = \{ ,200\},
         / = \{100, 200\},\
509
510
         - = \{630, 630\},\
         \textendash
                              = \{200, 200\},\
                                                \textemdash
                                                                      = \{150, 150\},\
511
         \textquoteleft
                              = \{400, 200\},\
                                                \textquoteright
                                                                      = \{400, 200\},
512
         \textquotedblleft = {400,200},
                                                \textquotedblright = {400,200}
513
       }
514
515 \SetProtrusion
     [ name
                  = FedraSansPro-OT1-it,
516
                  = FedraSansPro-it
517
        load
                                             ]
     { encoding = OT1,
518
                = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
519
                   FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
520
521
        shape
                  = {it,scit,sscit} }
     { }
522
```

523 \SetProtrusion

```
= FedraSansPro-T1-it,
524
      [ name
                   = FedraSansPro-it
         load
525
                                            ٦
      \{ \text{ encoding = } \{T1,LY1\}, 
526
                 = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF,%
527
       family
                  FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
528
         shape
                   = {it,sl,scit,scsl} }
529
      {
530
        _{-} = { ,100},
531
532
         \textbackslash
                             = \{100, 200\},\
         \quotesinglbase
                             = \{300,700\},
                                               \quotedb1base
                                                                    = \{400, 500\},\
533
                             = \{400, 400\},
         \guilsinglleft
                                               \guilsinglright
                                                                    = \{300, 500\},\
         \guillemotleft
                             = \{300,300\},\
                                               \guillemotright
                                                                    = \{300, 300\},\
535
         \textexclamdown
                             = \{100,
                                               \textquestiondown
                                                                    = \{200,
536
                                        },
                                                                    = \{200, 200\},
         \textbraceleft
                             = \{200, 100\},\
                                               \textbraceright
537
538
      }
539 \SetProtrusion
      [ name
                   = FedraSansPro-QX-it,
540
541
         load
                   = FedraSansPro-it
      \{ encoding = \{QX\}, \}
542
                 = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
543
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsf, FedraSansAltPro-TLF},
544
         shape
                   = {it,sl,scit,scsl} }
545
546
      {
         _{-} = { ,100},
547
                             = \{100, 200\},\
         \textbackslash
                                               \textellipsis
                                                                    = \{100, 200\},\
548
549
         \textperiodcentered = {500,700},
                                              \quotedblbase
                                                                    = \{400, 500\},\
         \textquotedbl
                             = \{400, 400\},
                                               \textquotesingle
                                                                    = \{400, 400\},
550
                             = \{300,300\},
                                                                    = \{300, 300\},\
         \guillemotleft
                                               \guillemotright
551
                                                                                },
         \textexclamdown
                             = {100,
                                         },
                                               \textquestiondown
                                                                    = {200,
552
         \textbraceleft
                             = \{200, 100\},\
                                               \textbraceright
                                                                    = \{200, 200\},\
553
      }
554
555 \SetProtrusion
      Γ name
                   = FedraSansPro-T5-it,
556
                   = FedraSansPro-it
        load
                                            ]
557
      { encoding = {T5},
558
       family
                 = {FedraSansPro-OsF, FedraSansPro-TLF, FedraSansPro-TOsF, FedraSansPro-TLF, %
559
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
560
         shape
                   = {it,sl,scit,scsl} }
561
      {
562
         _{-} = \{ ,100\},
563
         \textbackslash
                             = \{100, 200\},\
564
                                               \quotedblbase
         \quotesinglbase
                             = \{300,700\},
                                                                    = \{400, 500\},\
565
         \guilsinglleft
                                               \guilsinglright
                                                                    = \{300, 500\},\
                             = \{400, 400\},
566
         \guillemotleft
                             = \{300,300\},\
                                               \guillemotright
                                                                    = \{300, 300\},\
567
568
         \textbraceleft
                             = \{200, 100\},\
                                               \textbraceright
                                                                    = \{200, 200\},\
```

```
569 }
570 (/mtcfg)
```

9 Font definition support package

As all font definitions look the same, we introduce macros to ease the configuration. These macros are stored in the file fedrasans-fd.sty, which is included by every FD file. Since fedrasans-fd.sty will be included several times and we do not know in which context the code is executed, we have to define all non-private commands as globals and avoid all \preambleonly commands.

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

```
571 (*fontdef)
572 \ifx\fdrss@scale\@undefined\else\endinput\fi
```

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

```
573 \ifx\@nodocument\relax\else
574 \NeedsTeXFormat{LaTeX2e}
575 \RequirePackage{xkeyval}
576 \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.

```
577\ifx\@nodocument\relax
578 \begingroup
579 \escapechar'\\
580\fi
```

The macro to make commands global is taken from the otfontdef package.

```
581 \newcommand*\fdrss@makeglobal[1]{%
582  \global\expandafter\let\csname #1\expandafter\endcsname
583  \csname #1\endcsname
584 }
```

9.1 Options

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

```
585 \newcommand\fdrss@mweight@normal{Book}
586 \newcommand\fdrss@mweight@small{Book}
587 \newcommand\fdrss@bweight@normal{Medium}
588 \newcommand\fdrss@bweight@small{Medium}
589 \newcommand\fdrss@scale{0.9}
```

```
590 \ifx\@nodocument\relax\else
    \newcommand*\fdrss@fd@choicekey[3]{%
      592
593
    \fdrss@fd@choicekey{normalweight}{book,demi,auto}{%
594
      \ifcase\@tempb\relax
595
         \renewcommand\fdrss@mweight@normal{Book}
596
         \renewcommand\fdrss@mweight@small{Book}
597
598
         \renewcommand\fdrss@mweight@normal{Demi}
599
         \renewcommand\fdrss@mweight@small{Demi}
600
601
         \renewcommand\fdrss@mweight@normal{Book}
602
         \renewcommand\fdrss@mweight@small{Demi}
603
604
      \fi
605
    }
    \fdrss@fd@choicekey{boldweight}{medium,bold,auto}{%
606
      \ifcase\@tempb\relax
607
         \renewcommand\fdrss@bweight@normal{Medium}
608
         \renewcommand\fdrss@bweight@small{Medium}
609
610
         \renewcommand\fdrss@bweight@normal{Bold}
611
         \renewcommand\fdrss@bweight@small{Bold}
612
613
         \renewcommand\fdrss@bweight@normal{Medium}
614
         \renewcommand\fdrss@bweight@small{Bold}
615
      \fi
616
    }
617
    \define@key{fedrasans-fd.sty}{scale}[0.9]{\renewcommand*\fdrss@scale{#1}}
    \ProcessOptionsX\relax
619
620\fi
621 \fdrss@makeglobal{fdrss@mweight@normal}
622 \fdrss@makeglobal{fdrss@mweight@small}
623 \fdrss@makeglobal{fdrss@bweight@normal}
624 \fdrss@makeglobal{fdrss@bweight@small}
625 \fdrss@makeglobal{fdrss@scale}
```

9.2 Font configuration

We define commands to write to and read from the configuration database.

```
626 \newcommand*{\fdrss@addconfig}[4][]{%
627 \@for\@tempa:=#3\do{%
628 \expandafter
629 \gdef\csname fdrss@config@#2@#1@\@tempa\endcsname{#4}%
```

```
630
               }%
631 }
632 \newcommand*{\fdrss@useconfig}[3]{%
            \verb|\efined{fdrss@config@#2@#1@#3}{%} | \efined{fdrss@config@#2@#1@#3}{%} | \efined{fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@config@#2@fdrss@conf
                   \@ifundefined{fdrss@config@#2@@#3}{}%
634
                         {\csname fdrss@config@#2@@#3\endcsname}%
635
               }{\csname fdrss@config@#2@#1@#3\endcsname}%
636
637 }
638 \fdrss@makeglobal{fdrss@useconfig}
 Now we can build up the configuration database.
639 \fdrss@addconfig{weight/normal}{1}{Light}
640 \fdrss@addconfig{weight/small}{l}{Light}
641 \fdrss@addconfig{weight/normal}{sl}{Book}
642 \fdrss@addconfig{weight/small}{sl}{Book}
643 \fdrss@addconfig{weight/normal}{m}{\fdrss@mweight@normal}
644 \fdrss@addconfig{weight/small}{m}{\fdrss@mweight@small}
645 \fdrss@addconfig{weight/normal}{md}{Demi}
646 \fdrss@addconfig{weight/small}{md}{Demi}
647 \fdrss@addconfig{weight/normal}{sb}{Medium}
648 \fdrss@addconfig{weight/small}{sb}{Medium}
\label{lem:condition} \begin{tabular}{l} $$ \fdrss@bweight@normal} $$ \fdrss@bweight@normal} $$ \end{tabular} $$$ \end{tabular} $$ \end{tabular} $$ \end{tabular} $$ \end{tabular} $$$ \end{tabular} $$
650 \fdrss@addconfig{weight/small}{b}{\fdrss@bweight@small}
651 \fdrss@addconfig{weight/small}{ub}{Bold}
652 \fdrss@addconfig{weight/normal}{ub}{Bold}
653 \fdrss@addconfig{subs/series}{bx}{b}
654 \fdrss@addconfig{italic}{it,scit,sscit}{Italic}
655 \fdrss@addconfig[OML]{italic}{n}{French}
656 \fdrss@addconfig[OML]{italic}{it}{Mixed}
657 \fdrss@addconfig{shape}{sc,scit}{-sc}
658 \fdrss@addconfig{shape}{ssc,sscit}{-ssc}
659 \fdrss@addconfig{subs/shape}{sl}{it}
660 \fdrss@addconfig{subs/shape}{scsl}{scit}
661 \fdrss@addconfig{subs/shape}{sscsl}{sscit}
 This is the main macro to declare a single font shape.
662 \newcommand*\DeclareFedraSansShape[5][]{%
                \edef\@@tempa{\fdrss@useconfig{#2}{subs/series}{#4}}%
663
                \edef\@@tempb{\fdrss@useconfig{#2}{subs/shape}{#5}}%
664
                \ifx\ensuremath{\mbox{@tempa\empty}}\ifx\ensuremath{\mbox{@tempb\empty}}
665
                      \DeclareFontShape{#2}{FedraSans#1Pro-#3}{#4}{#5}{%
666
                             <-7.1>s*[\fdrss@scale]%
 667
                                   FedraSans#1Pro-%
668
                                   \fdrss@useconfig{#2}{weight/small}{#4}%
 669
670
                                   \fdrss@useconfig{#2}{italic}{#5}-#3%
671
                                   \fdrss@useconfig{#2}{shape}{#5}-#2%
```

```
<7.1->s*[\fdrss@scale]%
672
          FedraSans#1Pro-%
673
          \fdrss@useconfig{#2}{weight/normal}{#4}%
674
675
          \fdrss@useconfig{#2}{italic}{#5}-#3%
           \fdrss@useconfig{#2}{shape}{#5}-#2%
676
       }{}%
677
    \else
678
679
       \DeclareFontShape{#2}{FedraSans#1Pro-#3}{#4}{#5}{%
         <->ssub* FedraSans#1Pro-#3/#4/\@@tempb
680
       }{}%
681
682
    \fi\else
       \DeclareFontShape{#2}{FedraSans#1Pro-#3}{#4}{#5}{%
683
         <->ssub* FedraSans#1Pro-#3/\@@tempa/#5%
684
      }{}%
685
686
    \fi
687 }
688 \fdrss@makeglobal{DeclareFedraSansShape}
Finally, we provide commands to declare a complete family.
689 \newcommand*\DeclareFedraSansFamily[5][]{%
    \DeclareFontFamily{#2}{FedraSans#1Pro-#3}{}%
690
    \@for\fdrss@series:=#4\do{%
691
       \@for\fdrss@shape:=#5\do{%
692
693
         \DeclareFedraSansShape[#1]{#2}{#3}{\fdrss@series}{\fdrss@shape}%
694
       }%
    }%
695
696 }
697 \fdrss@makeglobal{DeclareFedraSansFamily}
698 \newcommand*\DeclareFedraSansLargeFamily[3][]{%
    \DeclareFedraSansFamily[#1]{#2}{#3}{1,sl,m,md,sb,b,bx,ub}%
699
       {n,it,sc,ssc,scit,sscit,sl,scsl,sscsl}%
700
701 }
702 \fdrss@makeglobal{DeclareFedraSansLargeFamily}
703 \newcommand*\DeclareFedraSansSmallFamily[3][]{%
    704
705 }
706 \fdrss@makeglobal{DeclareFedraSansSmallFamily}
707 \newcommand*\DeclareFedraSansTinyFamily[3][]{%
    \DeclareFedraSansFamily[#1]{#2}{#3}{1,sl,m,md,sb,b,bx,ub}{n}%
709 }
710 \fdrss@makeglobal{DeclareFedraSansTinyFamily}
711 \newcommand*\DeclareFedraSansMathFamily[2][]{%
    \def\ensuremath{\def}\
712
    \def\@tempb{TOsF}%
713
    \DeclareFontFamily{OML}{FedraSans#1Pro-#2}{\skewchar\font=127}%
714
    \@for\fdrss@series:=sl,m,md,sb,b,bx,ub\do{%
```

```
\@for\fdrss@shape:=n,it\do{%
 716
                                                              \ifx\@tempa\@tempb
 717
                                                               \label{thm:local_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_con
 718
 719
                                                              \else
                                                                \DeclareFontShape{OML}{FedraSans#1Pro-#2}{\fdrss@series}{\fdrss@shape}{%
 720
                                                                                         <->ssub* FedraSans#1Pro-TOsF/\fdrss@series/\fdrss@shape
 721
                                                                          }{}%
 722
 723
                                                             \fi
 724
                                                }%
                                }%
725
 726 }
 727 \fdrss@makeglobal{DeclareFedraSansMathFamily}
```

We define font family aliases so that we can place all configurations for the FedraSansPro family variants into one microtype file: mt-FedraSansPro.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.

```
728 \gdef\fdrss@Microtype@Aliases{%
    \DeclareMicrotypeAlias{FedraSansPro-LF}{FedraSansPro}%
729
    \DeclareMicrotypeAlias{FedraSansPro-OsF}{FedraSansPro}%
730
    \DeclareMicrotypeAlias{FedraSansPro-TLF}{FedraSansPro}%
    \DeclareMicrotypeAlias{FedraSansPro-TOsF}{FedraSansPro}%
732
     \DeclareMicrotypeAlias{FedraSansAltPro-LF}{FedraSansPro}%
733
    \DeclareMicrotypeAlias{FedraSansAltPro-OsF}{FedraSansPro}%
734
     \DeclareMicrotypeAlias{FedraSansAltPro-TLF}{FedraSansPro}%
735
     \DeclareMicrotypeAlias{FedraSansAltPro-TOsF}{FedraSansPro}%
736
737 }
738 \@ifundefined{Microtype@Hook}{%
    \global\let\Microtype@Hook\fdrss@Microtype@Aliases
740 }{%
    \g@addto@macro\Microtype@Hook{\fdrss@Microtype@Aliases}%
741
743 \@ifundefined{DeclareMicroTypeAlias}{}{\fdrss@Microtype@Aliases}%
744 \ifx\@nodocument\relax
745 \endgroup
746\fi
747 (/fontdef)
```

10 Font definition files

Using the above macros, the various FD files become simple two-liners.

```
748 (*fd)
749 \input{fedrasans-fd.sty}
750 (!alt & ot1 & If)\DeclareFedraSansLargeFamily{OT1}{LF}
```

```
751 (!alt & ot1 & osf)\DeclareFedraSansLargeFamily{OT1}{OsF}
752 (!alt & ot1 & tlf)\DeclareFedraSansLargeFamily{OT1}{TLF}
753 (!alt & ot1 & tosf)\DeclareFedraSansLargeFamily{OT1}{TOsF}
754 (!alt & t1 & If)\DeclareFedraSansLargeFamily{T1}{LF}
755 (!alt & t1 & osf)\DeclareFedraSansLargeFamily{T1}{OsF}
756 (!alt & t1 & tlf)\DeclareFedraSansLargeFamily{T1}{TLF}
757 (!alt & t1 & tosf)\DeclareFedraSansLargeFamily{T1}{T0sF}
758 (!alt & ts1 & If)\DeclareFedraSansLargeFamily{TS1}{LF}
759 (!alt & ts1 & osf)\DeclareFedraSansLargeFamily{TS1}{OsF}
760 (!alt & ts1 & tlf)\DeclareFedraSansLargeFamily{TS1}{TLF}
761 (!alt & ts1 & tosf) \DeclareFedraSansLargeFamily{TS1}{TOsF}
762 (!alt & ly1 & lf)\DeclareFedraSansLargeFamily{LY1}{LF}
763 (!alt & ly1 & osf)\DeclareFedraSansLargeFamily{LY1}{OsF}
764 (!alt & ly1 & tlf)\DeclareFedraSansLargeFamily{LY1}{TLF}
765 (!alt & ly1 & tosf)\DeclareFedraSansLargeFamily{LY1}{TOsF}
766 (!alt & qx & If)\DeclareFedraSansLargeFamily{QX}{LF}
767 (!alt & qx & osf)\DeclareFedraSansLargeFamily{QX}{OsF}
768 (!alt & qx & tlf)\DeclareFedraSansLargeFamily{QX}{TLF}
769 (!alt & qx & tosf)\DeclareFedraSansLargeFamily{QX}{TOsF}
770 (!alt & t5 & If)\DeclareFedraSansLargeFamily{T5}{LF}
771 (!alt & t5 & osf)\DeclareFedraSansLargeFamily{T5}{OsF}
772 (!alt & t5 & tlf)\DeclareFedraSansLargeFamily{T5}{TLF}
773 (!alt & t5 & tosf)\DeclareFedraSansLargeFamily{T5}{T0sF}
774 (!alt & oml & If)\DeclareFedraSansMathFamily{LF}
775 (!alt & oml & osf)\DeclareFedraSansMathFamily{OsF}
776 (!alt & oml & tlf)\DeclareFedraSansMathFamily{TLF}
777 (!alt & oml & tosf)\DeclareFedraSansMathFamily{TOsF}
778 (!alt & u & extra)\DeclareFedraSansSmallFamily{U}{Extra}
779 (!alt & u & orn)\DeclareFedraSansTinyFamily{U}{Pi}
780 (alt & ot1 & If)\DeclareFedraSansLargeFamily[Alt]{OT1}{LF}
781 (alt & ot1 & osf)\DeclareFedraSansLargeFamily[Alt]{OT1}{OsF}
782 \langle alt \& ot1 \& tlf \rangle \setminus DeclareFedraSansLargeFamily[Alt]{OT1}{TLF}
783 (alt & ot1 & tosf)\DeclareFedraSansLargeFamily[Alt]{OT1}{T0sF}
784 (alt & t1 & If)\DeclareFedraSansLargeFamily[Alt]{T1}{LF}
785 (alt & t1 & osf)\DeclareFedraSansLargeFamily[Alt]{T1}{OsF}
\label{eq:constraint} $$786 $$ \left( alt \& t1 \& tlf \right) \end{tabular} $$21 \& t1 \& tlf \right) $$ TLF $$
787 \langle alt \& t1 \& tosf \rangle \DeclareFedraSansLargeFamily[Alt]{T1}{T0sF}
788 (alt & ts1 & If)\DeclareFedraSansLargeFamily[Alt]{TS1}{LF}
789 (alt & ts1 & osf)\DeclareFedraSansLargeFamily[Alt]{TS1}{OsF}
790 (alt & ts1 & tlf)\DeclareFedraSansLargeFamily[Alt]{TS1}{TLF}
791 (alt & ts1 & tosf)\DeclareFedraSansLargeFamily[Alt]{TS1}{TOsF}
792 (alt & ly1 & lf)\DeclareFedraSansLargeFamily[Alt]{LY1}{LF}
793 (alt & ly1 & osf)\DeclareFedraSansLargeFamily[Alt]{LY1}{OsF}
794 (alt & ly1 & tlf)\DeclareFedraSansLargeFamily[Alt]{LY1}{TLF}
795 (alt & ly1 & tosf)\DeclareFedraSansLargeFamily[Alt]{LY1}{TOsF}
```

```
796 (alt & qx & If)\DeclareFedraSansLargeFamily[Alt]{QX}{LF} 797 (alt & qx & osf)\DeclareFedraSansLargeFamily[Alt]{QX}{0sF} 798 (alt & qx & tlf)\DeclareFedraSansLargeFamily[Alt]{QX}{TLF} 799 (alt & qx & tosf)\DeclareFedraSansLargeFamily[Alt]{QX}{TOsF} 800 (alt & t5 & If)\DeclareFedraSansLargeFamily[Alt]{T5}{LF} 801 (alt & t5 & osf)\DeclareFedraSansLargeFamily[Alt]{T5}{OsF} 802 (alt & t5 & tlf)\DeclareFedraSansLargeFamily[Alt]{T5}{TLF} 803 (alt & t5 & tosf)\DeclareFedraSansLargeFamily[Alt]{T5}{TLF} 803 (alt & t5 & tosf)\DeclareFedraSansLargeFamily[Alt]{LF} 805 (alt & oml & If)\DeclareFedraSansMathFamily[Alt]{LF} 805 (alt & oml & tlf)\DeclareFedraSansMathFamily[Alt]{USF} 806 (alt & oml & tosf)\DeclareFedraSansMathFamily[Alt]{TLF} 807 (alt & oml & tosf)\DeclareFedraSansMathFamily[Alt]{TOsF} 808 (alt & u & extra)\DeclareFedraSansSmallFamily[Alt]{U}{Extra} 809 (alt & u & orn)\DeclareFedraSansTinyFamily[Alt]{U}{Pi} 810 (/fd)
```