# 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

<sup>&</sup>lt;sup>1</sup>Fedra is a registered trademark of Typotheque VOF.

<sup>&</sup>lt;sup>2</sup>http://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 be accessed using the \fontseries command. For instance, the Demi weight can be accessed using the command \fontseries{md}.3

#### 4.4 Shapes

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

<sup>&</sup>lt;sup>3</sup>Font selection commands like \fontseries only take effect after a subsequent call to \selectfont.

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  |
| К   | \textkip      | ₮  | \texttugrik | $\epsilon$ | \texthryvnia |

Table 5: Dingbats available with the fedrasans package

| number | glyph            | number | glyph         | number | glyph     | number | glyph    |
|--------|------------------|--------|---------------|--------|-----------|--------|----------|
| 100    |                  | 120    | •             | 140    | +         | 160    |          |
| 101    | •                | 121    | <b>©</b>      | 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    | <b>①</b>      | 148    | V         | 168    | 9        |
| 109    | <b>•</b>         | 129    | ☺             | 149    | ⊠         | 169    | AND WALL |
| 110    | <b>◄</b>         | 130    | *             | 150    | $\bowtie$ | 170    | PRODUTY  |
| 111    | $\triangleright$ | 131    | •             | 151    |           | 171    | *        |
| 112    | ◁                | 132    | $\rightarrow$ | 152    | 6         | 172    | Same S   |
| 113    | <b>&gt;</b>      | 133    | ←             | 153    | í         | 173    | *        |
| 114    | ◀                | 134    | <b>↑</b>      | 154    |           | 174    | Q        |
| 115    | $\triangleright$ | 135    | $\downarrow$  | 155    | <b>₽</b>  | 175    | ~        |
| 116    | $\triangleleft$  | 136    | 7             | 156    | ద         | 176    |          |
| 117    | •                | 137    | Γ,            | 157    | •         |        |          |
| 118    | 0                | 138    | <b>∠</b>      | 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<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X, 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<sub>E</sub>X 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 | \varbeta⁴        | f | \digamma⁴ | Э | \backepsilon⁴ |
|---|------------------|---|-----------|---|---------------|
| 3 | \varbackepsilon⁴ | ħ | \hslash   | λ | \lambdabar    |
| λ | \lambdaslash     | ð | \eth⁴     | 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

<sup>&</sup>lt;sup>4</sup>The 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,<br>TSI, LYI,<br>QX, T5 | FedraSansPro-LF, FedraSansPro-OsF, FedraSansPro-TLF, FedraSansPro-TOsF, FedraSansAltPro-LF, FedraSansAltPro-OsF, FedraSansAltPro-TLF, FedraSansAltPro-TOsF   | l, sl, m, md,<br>b (bx), sb, ub | n, it (sl),<br>sc, scit (scsl),<br>ssc, sscit (sscsl) |
| OML                             | FedraSansPro-TOsF (FedraSansPro-LF, FedraSansPro-OsF, FedraSansPro-TLF), FedraSansAltPro-TOsF (FedraSansAltPro-LF, FedraSansAltPro-OsF, FedraSansAltPro-TLF) | sl, m, md,<br>b (bx), sb, ub    | n, it   |
| U                               | FedraSansPro-Extra,<br>FedraSansAltPro-Extra   | l, sl, m, md,<br>b (bx), sb, ub | n, it (sl)  |
| U                               | FedraSansPro-Pi,<br>FedraSansAltPro-Pi   | l, sl, m, md,<br>b (bx), sb, ub | n   |

```
\or
15
      \PassOptionsToPackage{normalweight=auto}{fdsymbol}%
16
17
   \fi
18 }
19 \fdrss@choicekey{boldweight}{medium,bold,auto}{%
   \PassOptionsToPackage{boldweight=#1}{fedrasans-fd}%
    \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}\fdrss@mathtrue\fi%
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}
{\tt 31 \ newcommand\ 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}{%
  \iffdrss@alt\renewcommand\fdrss@family{FedraSansAltPro}\fi%
36
37 }
38 \fdrss@choicekey{figures}{text,osf,lining,lf}{%
    \ifcase\@tempb\relax
      \renewcommand\fdrss@textfig{OsF}%
40
41
      \renewcommand\fdrss@textfig{OsF}%
42
43
      \renewcommand\fdrss@textfig{LF}%
44
45
      \renewcommand\fdrss@textfig{LF}%
46
    \fi
47
48 }
49 \fdrss@boolkey{stdmathdigits}{%
    \iffdrss@stdmathdigits
50
      \renewcommand\fdrss@mathfig{LF}%
51
    \fi
52
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
    \or
      \fdrss@greek@upper@uprightfalse
61
      \fdrss@greek@lower@uprightfalse
62
    \or
63
      \fdrss@greek@upper@uprighttrue
64
65
      \fdrss@greek@lower@uprighttrue
      \renewcommand\fdrss@mathshape{n}
66
   \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}{%
    \iffdrss@footnotemarks
79
      \@ifundefined{deffootnotemark}{%
80
        \def\@makefnmark{%
81
82
          \begingroup
83
          \usefont{U}{\fdrss@family-Extra}{m}{n}%
          \@thefnmark\kern0.1em%
84
          \endgroup
85
        }%
86
87
      }{%
```

```
\deffootnotemark{%
 88
              \begingroup
 89
              \usefont{U}{\fdrss@family-Extra}{m}{n}%
 90
              \thefootnotemark
 91
              \endgroup
 92
           }%
 93
         }%
 94
 95
         \@ifundefined{deffootnote}{}{%
           \deffootnote[1em]{1.5em}{1em}{%
 96
 97
              \begingroup
              \label{local-prop} $$ \operatorname{U}_{\sigma}(T_{\sigma})= \operatorname{L}_{\sigma}^{m}(T_{\sigma}). $$
 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 accomodate 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}
127
     \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
            \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]{%
                  \ifx\fdsy@bold\math@version
168
                        \text{\usefont{T1}{\fdrss@mathfamily}{b}{n}#1}%
169
                  \else
170
                        \text{\usefont{T1}{\fdrss@mathfamily}{m}{n}#1}%
171
172
                  \fi
            }
173
  Redefine the standard math versions normal and bold.
             \DeclareSymbolFont{operators}{T1}{\fdrss@mathfamily}{m}{n}
174
             \SetSymbolFont{operators}{bold}{T1}{\fdrss@mathfamily}{b}{n}
175
            \DeclareSymbolFont{letters}{OML}{\fdrss@family-TOsF}{m}{\fdrss@mathshape}
176
            \SetSymbolFont{letters}{bold}{OML}{\fdrss@family-TOsF}{b}{\fdrss@mathshape}
             \DeclareMathAlphabet{\mathrm}{T1}{\fdrss@mathfamily}{m}{n}
178
             \SetMathAlphabet{\mathrm}{bold}{T1}{\fdrss@mathfamily}{b}{n}
179
            180
             \SetMathAlphabet{\mathit}{bold}{T1}{\fdrss@mathfamily}{b}{it}
181
             \DeclareMathAlphabet{\mathbf}{T1}{\fdrss@mathfamily}{b}{n}
182
  Extra math versions tabular and boldtabular, which use tabular figures instead of
  proportional ones. These math versions can be useful in tables.
             \DeclareMathVersion{tabular}
183
             \SetSymbolFont{operators}{tabular}{T1}{\fdrss@mathtfamily}{m}{n}
184
             \SetMathAlphabet{\mathrm}{tabular}{T1}{\fdrss@mathtfamily}{m}{n}
185
             \label{thm:continuous} $$\operatorname{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{T1}_{\sigma}^{\sigma
186
             \DeclareMathVersion{boldtabular}
188
             \SetSymbolFont{operators}{boldtabular}{T1}{\fdrss@mathtfamily}{b}{n}
189
            \SetSymbolFont{letters}{boldtabular}{OML}{\fdrss@family-TOsF}{b}{\fdrss@mathshape}
190
191
             \SetMathAlphabet{\mathrm}{boldtabular}{T1}{\fdrss@mathtfamily}{b}{n}
             \label{$$\athAlphabet{\mathbb{T}}{boldtabular}{T1}{\athsamily}{b}{it}$}
192
             193
```

\DeclareMathAccent{\grave}{\mathalpha}{operators}{"00}

\DeclareMathAccent{\acute}{\mathalpha}{operators}{"01}

\DeclareMathAccent{\tilde}{\mathalpha}{operators}{"03}

\DeclareMathAccent{\ddot}{\mathalpha}{operators}{"04}

\DeclareMathAccent{\mathring}{\mathalpha}{operators}{"06}

194

195

196

197

198

199

```
\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}
208
    \DeclareMathSymbol{\ell}{\mathord}{letters}{"60}
     \DeclareMathSymbol{\upell}{\mathord}{letters}{"B9}
209
    \DeclareMathSymbol{\slashedzero}{\mathord}{letters}{"B8}
210
    \let\mho\undefined
211
    \DeclareMathSymbol{\mho}{\mathord}{letters}{"BA}
    \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
234
        \expandafter\let\csname #1\expandafter\endcsname\csname up#1\endcsname
       \else
235
        \expandafter\let\csname #1\expandafter\endcsname\csname it#1\endcsname
236
       \fi
237
```

```
238
     \fdrss@greek@capital{Gamma}{"00}{"80}
239
     \fdrss@greek@capital{Delta}{"01}{"81}
240
     \fdrss@greek@capital{Theta}{"02}{"82}
241
     \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
257
     \fdrss@greek@letter{theta}{"12}{"92}
     \fdrss@greek@letter{iota}{"13}{"93}
258
     \fdrss@greek@letter{kappa}{"14}{"94}
259
     \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
264
     \fdrss@greek@letter{pi}{"19}{"99}
     \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.
```

\fdrss@greek@letter{varbeta}{"A8}{"B0}

\fdrss@greek@letter{digamma}{"A9}{"B1}

279

```
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]
286
     \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 }{
    \providecommand{\ding}[1]{}
295
     \renewcommand{\ding}[1]{{\usefont{U}{\fdrss@pifamily}{m}{n}\char##1}}
296
297 }
```

## 7.6 Bullet figures

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

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

```
\next#2%
316
317 }
318 \DeclareRobustCommand*{\openbullet}[1]{%
                  \begingroup
                  \usefont{U}{\fdrss@family-Pi}{m}{n}%
 320
                  \ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath{\def}\ensuremath}\ensurema
                  \endgroup
322
323 }
324 \newcommand*{\fdrss@@closedbullet}[2]{%
                  \ifx#2\end
                         \char7#1%
326
327
                          \let\next\@gobble
                \else
 328
                          \char6#1\kern-0.02em%
329
                          \let\next\fdrss@@closedbullet
 330
 331
                 \fi
                  \next#2%
332
333 }
334 \newcommand*{\fdrss@closedbullet}[2]{%
                  \ifx#2\end
335
                          \char4#1%
336
                         \let\next\@gobble
                  \else
338
                          \char5#1\kern-0.02em%
339
                         \let\next\fdrss@@closedbullet
340
 341
                  \fi
                 \next#2%
342
343 }
 344 \DeclareRobustCommand*{\closedbullet}[1]{%
345
                  \begingroup
                  \usefont{U}{\fdrss@family-Pi}{m}{n}%
                  347
                  \endgroup
 348
 349 }
```

## 7.7 Superior and inferior figures

The following command converts numbers to inferior figures.

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

```
\fi
 356
                       \next
 357
358 }
 359 \newcommand*{\fdrss@inferior}[1]{%
                       \begingroup
 360
                       \ensuremath{\tt def}\ensuremath{\tt drss@@inferior}\ensuremath{\tt def}\ensuremath{\tt drss@@inferior}\ensuremath{\tt def}\ensuremath{\tt def}\ensur
                       \endgroup
362
363 }
    \fdrss@ensuretext switches to text mode, if necessary.
 364 \newcommand*{\fdrss@ensuretext}[1]{%
                       \ifmmode
365
                                 \fdsy@text{#1}%
366
 367
                       \else
 368
                                 #1%
                    \fi
 369
370 }
   We provide two commands for generating numerical fractions.
371 \newcommand*{\fdrss@smallfrac}[2]{%
                       \begingroup
 372
                     \fontencoding{U}\fontfamily{\fdrss@family-Extra}\fontshape{n}\selectfont
373
                       \leavevmode
 374
                       \setbox\@tempboxa\vbox{%
 375
                                  \baselineskip\z@skip%
 376
                                  \lineskip.25ex%
 377
                                  \lineskiplimit-\maxdimen
 378
                                  \ialign{\hfil##\hfil\crcr
 379
                                            \ \ \ \ 1.25ex{\vs\hbox{#1}\vskip.25ex}\crcr
 380
                                            \label{leadershrule height 0.91ex depth -0.87ex} $$ \operatorname{leavevmode} -0.87ex \right. $$
 381
                                            \vtop to 1ex{\vbox{}\hbox{\fdrss@inferior{#2}}\vss}\crcr
 382
 383
                                            \noalign{\vskip-1.2ex}}}%
                       \box\@tempboxa
 384
385
                        \endgroup
386 }
 387 \DeclareRobustCommand*{\smallfrac}[2]{%
                       \fdrss@ensuretext{\kern0.08em\fdrss@smallfrac{#1}{#2}\kern0.1em}%
388
389 }
 390 \newcommand*{\fdrss@slantfrac}[2]{%
                       \begingroup
391
                     \fontencoding {\tt U} \land fontfamily {\tt fdrss@family-Extra} \land fontshape {\tt n} \land fontsh
392
                       #1\kern-0.05em/\kern0em\fdrss@inferior{#2}%
393
                       \endgroup
394
395 }
396 \DeclareRobustCommand*{\slantfrac}[2]{%
```

```
398 }
```

## 7.8 Logos

```
399 \iffdrss@sfdefault
    \DeclareRobustCommand{\LaTeX}{L\kern-.26em%
      {\sbox\z@ T%
401
402
        \fontsize\sf@size\z@
403
          \math@fontsfalse\selectfont
404
          A}%
405
        \vss}%
406
      }%
407
      \kern-.05em%
408
      \TeX
   }
410
411\fi
   Make the changes take effect. This concludes the main style file.
412 \normalfont
```

413 (/package)

## Microtype configuration file

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

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

```
\textquoteleft
                             = \{300, 400\},\
                                              \textquoteright
                                                                   = \{300, 400\},\
434
         \textquotedblleft = {300,300},
                                              \textquotedblright = {300,300}
435
      }
436
437 \SetProtrusion
438
      [ name
                  = FedraSansPro-OT1,
        load
                  = FedraSansPro-n
439
                                         ]
      \{ encoding = \{OT1\}, \}
440
       family = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
441
                  FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
442
443
         shape
                  = {n,sc,ssc} }
444
      { }
445 \SetProtrusion
      [ name
                  = FedraSansPro-T1,
446
                  = FedraSansPro-n
447
        load
      { encoding = \{T1,LY1\},
448
               = {FedraSansPro-OsF,FedraSansPro-LF,FedraSansPro-TOsF,FedraSansPro-TLF,%
449
                  FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
450
                  = {n,sc,ssc} }
451
         shape
      {
452
        _{-} = \{100, 100\},
453
        \textbackslash
454
                             = \{100, 200\},\
                             = \{400, 400\},\
         \quotesinglbase
                                              \quotedblbase
                                                                   = \{400, 400\},
455
        \guilsinglleft
                             = \{400,300\},
                                              \guilsinglright
                                                                   = \{300,400\},
456
         \guillemotleft
                             = \{200, 200\},\
                                              \guillemotright
                                                                   = \{200, 200\},\
457
         \textexclamdown
                             = \{100,
                                                                   = {100,
                                              \textquestiondown
                                                                              },
                                        },
458
         \textbraceleft
                             = \{400, 200\},\
                                              \textbraceright
                                                                   = \{200, 400\},\
459
         \textless
                             = \{200, 100\},\
                                              \textgreater
                                                                   = \{100, 200\}
460
      }
461
462\SetProtrusion
      [ name
                  = FedraSansPro-QX,
463
                  = FedraSansPro-n
464
        load
      { encoding = \{QX\},
465
       family = {FedraSansPro-OsF,FedraSansPro-LF,FedraSansPro-TOsF,FedraSansPro-TLF,%
466
                  FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
467
                  = {n,sc,ssc} }
468
         shape
      {
469
         _{-} = \{100, 100\},
470
        \textbackslash
                                              \textellipsis
                                                                   = \{100, 200\},\
471
                             = \{100, 200\},\
         \textperiodcentered = {500,700},
                                              \quotedblbase
                                                                   = \{400, 400\},
472
473
         \textquotedbl
                             = \{400, 400\},
                                              \textquotesingle
                                                                   = \{400, 400\},
        \guillemotleft
                             = \{200, 200\},\
                                              \guillemotright
                                                                   = \{200, 200\},\
474
475
        \textexclamdown
                             = \{100,
                                        },
                                              \textquestiondown
                                                                   = \{100,
                                                                              },
         \textbraceleft
                             = \{400, 200\},\
                                              \textbraceright
                                                                   = \{200, 400\},\
476
         \textless
                             = \{200, 100\},\
                                                                   = \{100, 200\}
477
                                              \textgreater
```

```
478
       }
479 \SetProtrusion
       [ name
                   = FedraSansPro-T5,
480
                   = FedraSansPro-n
         load
481
       \{ encoding = \{T5\}, \}
482
                = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
483
                   FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
484
         shape
                   = {n,sc,ssc} }
485
       {
486
487
         = \{100, 100\},\
         \textbackslash
                              = \{100, 200\},\
488
         \quotesinglbase
                              = \{400, 400\},
                                                \quotedblbase
                                                                     = \{400, 400\},\
489
         \guilsinglleft
                              = \{400,300\},
                                                \guilsinglright
                                                                     = \{300, 400\},\
490
         \guillemotleft
                              = \{200, 200\},\
                                                \guillemotright
                                                                     = \{200, 200\},\
491
492
         \textbraceleft
                              = \{400, 200\},\
                                                \textbraceright
                                                                     = \{200, 400\},
         \textless
                              = \{200, 100\},\
                                               \textgreater
                                                                     = \{100, 200\}
493
      }
494
495 \SetProtrusion
496
     [ name
                  = FedraSansPro-it ]
         }
497
     {
498
     {
         . = \{ ,500 \},
499
        {,}= { ,500},
500
501
         : = \{ ,300 \},
502
         ; = { ,300},
503
         & = \{50, 50\},\
        \% = \{100, \},\
504
         * = \{200, 200\},\
505
         + = \{150, 200\},\
506
         0 = \{50, 50\},\
507
         ^{\sim} = {150,150},
508
         ( = \{200, \},
                           ) = \{ ,200\},
509
510
         / = \{100, 200\},\
         - = \{630, 630\},\
511
         \textendash
                              = \{200, 200\},\
                                                \textemdash
                                                                     = \{150, 150\},\
512
                              = \{400, 200\},\
         \textquoteleft
                                                \textquoteright
                                                                     = \{400, 200\},\
513
         \textquotedblleft = {400,200},
                                                \textquotedblright = {400,200}
514
515
       }
516 \SetProtrusion
                  = FedraSansPro-OT1-it,
517
     [ name
        load
                  = FedraSansPro-it
518
519
     { encoding = OT1,
                = {FedraSansPro-OsF,FedraSansPro-TLF, FedraSansPro-TOsF, FedraSansPro-TLF, %
       family
520
                   FedraSansAltPro-OsF, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
521
```

```
shape
                 = {it,scit,sscit} }
522
     { }
523
524 \SetProtrusion
                  = FedraSansPro-T1-it,
      [ name
525
                  = FedraSansPro-it
526
         load
527
      { encoding = {T1,LY1},
       family
                = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
528
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsF, FedraSansAltPro-TLF},
529
                  = {it,sl,scit,scsl} }
        shape
530
531
      {
        _{-} = \{ ,100\},
532
                             = \{100, 200\},\
        \textbackslash
533
        \quotesinglbase
                             = \{300,700\},
                                              \quotedblbase
                                                                   = \{400, 500\},\
534
         \guilsinglleft
                             = \{400, 400\},
                                              \guilsinglright
                                                                   = \{300, 500\},\
535
536
         \guillemotleft
                             = \{300,300\},\
                                              \guillemotright
                                                                   = \{300,300\},\
         \textexclamdown
                             = {100,
                                              \textquestiondown
                                                                   = \{200,
537
                                       },
                                                                               }.
         \textbraceleft
                             = \{200, 100\},\
                                              \textbraceright
                                                                   = \{200, 200\},\
538
      }
539
540 \SetProtrusion
      [ name
                  = FedraSansPro-QX-it,
541
                  = FedraSansPro-it
542
                                            ]
      { encoding = \{QX\},
543
                = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
544
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsf, FedraSansAltPro-TLF},
545
        shape
                  = {it,sl,scit,scsl} }
546
      {
547
        _{-} = { ,100},
548
        \textbackslash
                             = \{100, 200\},\
                                              \textellipsis
                                                                   = \{100, 200\},\
549
         \textperiodcentered = {500,700},
                                              \quotedblbase
                                                                   = \{400, 500\},\
550
        \textquotedb1
                             = \{400, 400\},\
                                              \textquotesingle
                                                                   = \{400, 400\},
551
                             = \{300,300\},\
552
        \guillemotleft
                                              \guillemotright
                                                                   = \{300,300\},\
        \textexclamdown
                            = \{100, \},
                                              \text{textquestiondown} = \{200,
                                                                               },
553
554
         \textbraceleft
                             = \{200, 100\},\
                                              \textbraceright
                                                                   = \{200, 200\},\
      }
555
556 \SetProtrusion
                  = FedraSansPro-T5-it.
      Γ name
557
                  = FedraSansPro-it
558
      \{ encoding = \{T5\}, \}
559
                = {FedraSansPro-OsF, FedraSansPro-LF, FedraSansPro-TOsF, FedraSansPro-TLF, %
       family
560
                  FedraSansAltPro-Osf, FedraSansAltPro-LF, FedraSansAltPro-TOsf, FedraSansAltPro-TLF},
561
        shape
                  = {it,sl,scit,scsl} }
562
563
      {
         _{-} = { ,100},
564
         \textbackslash
                             = \{100, 200\},\
565
```

```
\quad = \{300,700\},
                                           \quotedblbase
                                                               = \{400, 500\},\
566
        \guilsinglleft = \{400, 400\},
                                           \guilsinglright
                                                              = \{300, 500\},\
567
        \guillemotleft = \{300,300\},
                                           \guillemotright
                                                            = \{300,300\},
568
        \text{textbraceleft} = \{200, 100\},\
                                           \textbraceright
569
                                                             = \{200, 200\},\
     }
570
571 (/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.

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

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

```
574\ifx\@nodocument\relax\else
575 \NeedsTeXFormat{LaTeX2e}
576 \RequirePackage{xkeyval}
577\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.

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

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

```
582 \newcommand*\fdrss@makeglobal[1]{%
583  \global\expandafter\let\csname #1\expandafter\endcsname
584  \csname #1\endcsname
585 }
```

#### 9.1 Options

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

```
587 \newcommand\fdrss@mweight@small{Book}
588 \newcommand\fdrss@bweight@normal{Medium}
589 \newcommand\fdrss@bweight@small{Medium}
590 \newcommand\fdrss@scale{0.9}
591\ifx\@nodocument\relax\else
    \newcommand*\fdrss@fd@choicekey[3]{%
       593
594
    \fdrss@fd@choicekey{normalweight}{book,demi,auto}{%
595
596
      \ifcase\@tempb\relax
         \renewcommand\fdrss@mweight@normal{Book}
597
         \renewcommand\fdrss@mweight@small{Book}
598
599
      \or
         \renewcommand\fdrss@mweight@normal{Demi}
600
        \renewcommand\fdrss@mweight@small{Demi}
601
      \or
602
         \renewcommand\fdrss@mweight@normal{Book}
603
        \renewcommand\fdrss@mweight@small{Demi}
604
      \fi
605
606
    }
    \fdrss@fd@choicekey{boldweight}{medium,bold,auto}{%
607
      \ifcase\@tempb\relax
608
        \renewcommand\fdrss@bweight@normal{Medium}
609
        \renewcommand\fdrss@bweight@small{Medium}
610
611
      \or
612
         \renewcommand\fdrss@bweight@normal{Bold}
         \renewcommand\fdrss@bweight@small{Bold}
613
      \or
614
         \renewcommand\fdrss@bweight@normal{Medium}
615
         \renewcommand\fdrss@bweight@small{Bold}
616
617
      \fi
    }
618
    \define@key{fedrasans-fd.sty}{scale}[0.9]{\renewcommand*\fdrss@scale{#1}}
619
    \ProcessOptionsX\relax
621 \fi
622 \fdrss@makeglobal{fdrss@mweight@normal}
623 \fdrss@makeglobal{fdrss@mweight@small}
624 \fdrss@makeglobal{fdrss@bweight@normal}
625 \fdrss@makeglobal{fdrss@bweight@small}
626 \fdrss@makeglobal{fdrss@scale}
```

## 9.2 Font configuration

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

```
627 \newcommand*{\fdrss@addconfig}[4][]{%
     \@for\@tempa:=#3\do{%
       \expandafter
629
       \gdef\csname fdrss@config@#2@#1@\@tempa\endcsname{#4}%
630
    }%
631
632 }
633 \newcommand*{\fdrss@useconfig}[3]{%
    \@ifundefined{fdrss@config@#2@#1@#3}{%
635
      \@ifundefined{fdrss@config@#2@@#3}{}%
        {\csname fdrss@config@#2@@#3\endcsname}%
636
     }{\csname fdrss@config@#2@#1@#3\endcsname}%
637
638 }
639 \fdrss@makeglobal{fdrss@useconfig}
Now we can build up the configuration database.
640 \fdrss@addconfig{weight/normal}{l}{Light}
641 \fdrss@addconfig{weight/small}{l}{Light}
642 \fdrss@addconfig{weight/normal}{sl}{Book}
643 \fdrss@addconfig{weight/small}{sl}{Book}
644 \fdrss@addconfig{weight/normal}{m}{\fdrss@mweight@normal}
645 \fdrss@addconfig{weight/small}{m}{\fdrss@mweight@small}
646 \fdrss@addconfig{weight/normal}{md}{Demi}
647 \fdrss@addconfig{weight/small}{md}{Demi}
648 \fdrss@addconfig{weight/normal}{sb}{Medium}
649 \fdrss@addconfig{weight/small}{sb}{Medium}
650 \fdrss@addconfig{weight/normal}{b}{\fdrss@bweight@normal}
651 \fdrss@addconfig{weight/small}{b}{\fdrss@bweight@small}
652 \fdrss@addconfig{weight/small}{ub}{Bold}
653 \fdrss@addconfig{weight/normal}{ub}{Bold}
654 \fdrss@addconfig{subs/series}{bx}{b}
655 \fdrss@addconfig{italic}{it,scit,sscit}{Italic}
656 \fdrss@addconfig[OML]{italic}{n}{French}
657 \fdrss@addconfig[OML]{italic}{it}{Mixed}
658 \fdrss@addconfig{shape}{sc,scit}{-sc}
659 \fdrss@addconfig{shape}{ssc,sscit}{-ssc}
660 \fdrss@addconfig{subs/shape}{sl}{it}
661 \fdrss@addconfig{subs/shape}{scsl}{scit}
662 \fdrss@addconfig{subs/shape}{sscsl}{sscit}
This is the main macro to declare a single font shape.
663 \newcommand*\DeclareFedraSansShape[5][]{%
     \edef\@@tempa{\fdrss@useconfig{#2}{subs/series}{#4}}%
664
     \edef\@@tempb{\fdrss@useconfig{#2}{subs/shape}{#5}}%
665
     \ifx\@@tempa\empty\ifx\@@tempb\empty
666
       \DeclareFontShape{#2}{FedraSans#1Pro-#3}{#4}{#5}{%
667
         <-7.1>s*[\fdrss@scale]%
668
```

```
FedraSans#1Pro-%
669
           \fdrss@useconfig{#2}{weight/small}{#4}%
670
           \fdrss@useconfig{#2}{italic}{#5}-#3%
671
           \fdrss@useconfig{#2}{shape}{#5}-#2%
         <7.1->s*[\fdrss@scale]%
673
           FedraSans#1Pro-%
674
           \fdrss@useconfig{#2}{weight/normal}{#4}%
675
           \fdrss@useconfig{#2}{italic}{#5}-#3%
676
           \fdrss@useconfig{#2}{shape}{#5}-#2%
677
       }{}%
678
679
     \else
       \DeclareFontShape{#2}{FedraSans#1Pro-#3}{#4}{#5}{%
680
         <->ssub* FedraSans#1Pro-#3/#4/\@@tempb
681
       }{}%
682
683
     \fi\else
       \DeclareFontShape{#2}{FedraSans#1Pro-#3}{#4}{#5}{%
684
         <->ssub* FedraSans#1Pro-#3/\@@tempa/#5%
685
686
       }{}%
    \fi
687
688 }
689 \fdrss@makeglobal{DeclareFedraSansShape}
Finally, we provide commands to declare a complete family.
690 \newcommand*\DeclareFedraSansFamily[5][]{%
     \DeclareFontFamily{#2}{FedraSans#1Pro-#3}{}%
     \@for\fdrss@series:=#4\do{%
692
       \@for\fdrss@shape:=#5\do{%
693
         \DeclareFedraSansShape[#1]{#2}{#3}{\fdrss@series}{\fdrss@shape}%
694
       }%
695
    }%
696
697 }
698 \fdrss@makeglobal{DeclareFedraSansFamily}
699 \newcommand*\DeclareFedraSansLargeFamily[3][]{%
     \DeclareFedraSansFamily[#1]{#2}{#3}{1,sl,m,md,sb,b,bx,ub}%
700
       {n,it,sc,ssc,scit,sscit,sl,scsl,sscsl}%
701
702 }
703 \fdrss@makeglobal{DeclareFedraSansLargeFamily}
704 \newcommand*\DeclareFedraSansSmallFamily[3][]{%
     \DeclareFedraSansFamily[#1]{#2}{#3}{1,sl,m,md,sb,b,bx,ub}{n,it,sl}%
706 }
707 \fdrss@makeglobal{DeclareFedraSansSmallFamily}
708 \newcommand*\DeclareFedraSansTinyFamily[3][]{%
     \DeclareFedraSansFamily[#1]{#2}{#3}{1,sl,m,md,sb,b,bx,ub}{n}%
709
710 }
711 \fdrss@makeglobal{DeclareFedraSansTinyFamily}
712 \newcommand*\DeclareFedraSansMathFamily[2][]{%
```

```
\def\@tempa{#2}%
713
     \def\@tempb{TOsF}%
714
     \DeclareFontFamily{OML}{FedraSans#1Pro-#2}{\skewchar\font=127}%
715
     \@for\fdrss@series:=sl,m,md,sb,b,bx,ub\do{%
716
       \@for\fdrss@shape:=n,it\do{%
717
         \ifx\@tempa\@tempb
718
         \DeclareFedraSansShape[#1]{OML}{TOsF}{\fdrss@series}{\fdrss@shape}%
719
720
         \else
         \DeclareFontShape{0ML}{FedraSans#1Pro-#2}{\fdrss@series}{\fdrss@shape}{%
721
             <->ssub* FedraSans#1Pro-TOsF/\fdrss@series/\fdrss@shape
722
723
           }{}%
         \fi
724
725
       }%
    }%
726
727 }
728 \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.

```
729 \gdef\fdrss@Microtype@Aliases{%
    \DeclareMicrotypeAlias{FedraSansPro-LF}{FedraSansPro}%
    \DeclareMicrotypeAlias{FedraSansPro-OsF}{FedraSansPro}%
731
    \DeclareMicrotypeAlias{FedraSansPro-TLF}{FedraSansPro}%
732
    \DeclareMicrotypeAlias{FedraSansPro-TOsF}{FedraSansPro}%
733
    \DeclareMicrotypeAlias{FedraSansAltPro-LF}{FedraSansPro}%
734
    \DeclareMicrotypeAlias{FedraSansAltPro-OsF}{FedraSansPro}%
735
     \DeclareMicrotypeAlias{FedraSansAltPro-TLF}{FedraSansPro}%
736
    \DeclareMicrotypeAlias{FedraSansAltPro-TOsF}{FedraSansPro}%
737
738 }
739 \@ifundefined{Microtype@Hook}{%
    \global\let\Microtype@Hook\fdrss@Microtype@Aliases
741 }{%
    \g@addto@macro\Microtype@Hook{\fdrss@Microtype@Aliases}%
742
743 }%
744 \@ifundefined{DeclareMicroTypeAlias}{}{\fdrss@Microtype@Aliases}%
745 \ifx\@nodocument\relax
746 \endgroup
747\fi
748 (/fontdef)
```

## 10 Font definition files

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

```
749 (*fd)
750 \input{fedrasans-fd.sty}
751 (!alt & ot1 & If)\DeclareFedraSansLargeFamily{OT1}{LF}
752 (!alt & ot1 & osf)\DeclareFedraSansLargeFamily{OT1}{OsF}
753 (!alt & ot1 & tlf)\DeclareFedraSansLargeFamily{OT1}{TLF}
754 (!alt & ot1 & tosf)\DeclareFedraSansLargeFamily{OT1}{TOsF}
755 (!alt & t1 & If)\DeclareFedraSansLargeFamily{T1}{LF}
756 (!alt & t1 & osf)\DeclareFedraSansLargeFamily{T1}{OsF}
757 (!alt & t1 & tlf)\DeclareFedraSansLargeFamily{T1}{TLF}
758 (!alt & t1 & tosf)\DeclareFedraSansLargeFamily{T1}{T0sF}
759 (!alt & ts1 & If)\DeclareFedraSansLargeFamily{TS1}{LF}
760 (!alt \& ts1 \& osf) \ensuremath{\mbox{DeclareFedraSansLargeFamily{TS1}{0sF}}
761 (!alt & ts1 & tlf)\DeclareFedraSansLargeFamily{TS1}{TLF}
762 (!alt & ts1 & tosf)\DeclareFedraSansLargeFamily{TS1}{TOsF}
763 (!alt & ly1 & lf)\DeclareFedraSansLargeFamily{LY1}{LF}
764 \langle !alt \& ly1 \& osf \rangle \DeclareFedraSansLargeFamily\{LY1\}\{OsF\}
765 (!alt & ly1 & tlf)\DeclareFedraSansLargeFamily{LY1}{TLF}
766 (!alt & ly1 & tosf) \DeclareFedraSansLargeFamily(LY1){TOsF}
767 (!alt & gx & If)\DeclareFedraSansLargeFamily{OX}{LF}
768 (!alt & qx & osf)\DeclareFedraSansLargeFamily{QX}{OsF}
769 (!alt & qx & tlf) \ ClareFedraSansLargeFamily{QX}{TLF}
770 (!alt & qx & tosf)\DeclareFedraSansLargeFamily{QX}{TOsF}
771 (!alt & t5 & If)\DeclareFedraSansLargeFamily{T5}{LF}
772 (!alt & t5 & osf)\DeclareFedraSansLargeFamily{T5}{OsF}
773 (!alt & t5 & tlf)\DeclareFedraSansLargeFamily{T5}{TLF}
774 (!alt & t5 & tosf)\DeclareFedraSansLargeFamily{T5}{T0sF}
775 (!alt & oml & If)\DeclareFedraSansMathFamily{LF}
776 (!alt & oml & osf)\DeclareFedraSansMathFamily{OsF}
777 (!alt & oml & tlf)\DeclareFedraSansMathFamily{TLF}
778 (!alt & oml & tosf)\DeclareFedraSansMathFamily{TOsF}
779 (!alt & u & extra)\DeclareFedraSansSmallFamily{U}{Extra}
780 (!alt & u & orn)\DeclareFedraSansTinyFamily{U}{Pi}
781 (alt & ot1 & If)\DeclareFedraSansLargeFamily[Alt]{OT1}{LF}
782 (alt & ot1 & osf)\DeclareFedraSansLargeFamily[Alt]{OT1}{OsF}
783 (alt & ot1 & tlf)\DeclareFedraSansLargeFamily[Alt]{OT1}{TLF}
784 (alt & ot1 & tosf)\DeclareFedraSansLargeFamily[Alt]{OT1}{T0sF}
785 (alt & t1 & If)\DeclareFedraSansLargeFamily[Alt]{T1}{LF}
786 (alt & t1 & osf)\DeclareFedraSansLargeFamily[Alt]{T1}{OsF}
787 (alt & t1 & tlf)\DeclareFedraSansLargeFamily[Alt]{T1}{TLF}
788 (alt & t1 & tosf)\DeclareFedraSansLargeFamily[Alt]{T1}{T0sF}
789 \langle alt \& ts1 \& lf \rangle \DeclareFedraSansLargeFamily[Alt]{TS1}{LF}
790 (alt & ts1 & osf)\DeclareFedraSansLargeFamily[Alt]{TS1}{0sF}
```

```
791 (alt & ts1 & tlf)\DeclareFedraSansLargeFamily[Alt]{TLF}
792 \langle alt \& ts1 \& tosf \rangle \backslash EclareFedraSansLargeFamily[Alt]{TS1}{TOsF}
793 (alt & ly1 & lf)\DeclareFedraSansLargeFamily[Alt]{LY1}{LF}
794 (alt & ly1 & osf)\DeclareFedraSansLargeFamily[Alt]{LY1}{OsF}
795 (alt & ly1 & tlf)\DeclareFedraSansLargeFamily[Alt]{LY1}{TLF}
796 \langle alt \& ly1 \& tosf \rangle \setminus DeclareFedraSansLargeFamily[Alt]\{LY1\}\{TOsF\}
797 \langle alt \& qx \& lf \rangle \setminus DeclareFedraSansLargeFamily[Alt]{QX}{LF}
798 (alt & gx & osf)\DeclareFedraSansLargeFamily[Alt]{QX}{OsF}
799 (alt & qx & tlf)\DeclareFedraSansLargeFamily[Alt]{QX}{TLF}
800 (alt & qx & tosf)\DeclareFedraSansLargeFamily[Alt]{QX}{TOsF}
801 (alt & t5 & If) \DeclareFedraSansLargeFamily [Alt] \{T5\}\{LF\}
802 (alt & t5 & osf) \DeclareFedraSansLargeFamily[Alt]{T5}\{0sF\}
803 (alt & t5 & tlf)\DeclareFedraSansLargeFamily[Alt]{T5}{TLF}
804 (alt & t5 & tosf)\DeclareFedraSansLargeFamily[Alt]{T5}{T0sF}
805 (alt & oml & If)\DeclareFedraSansMathFamily[Alt]{LF}
806 (alt & oml & osf)\DeclareFedraSansMathFamily[Alt]{OsF}
807 (alt & oml & tlf)\DeclareFedraSansMathFamily[Alt]{TLF}
808 (alt & oml & tosf)\DeclareFedraSansMathFamily[Alt]{TOsF}
809 (alt & u & extra)\DeclareFedraSansSmallFamily[Alt]{U}{Extra}
810 (alt & u & orn)\DeclareFedraSansTinyFamily[Alt]{U}{Pi}
811 (/fd)
```