CronosPro Support for LaTeX

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Contents

1 Overview

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

```
\usepackage{CronosPro}
```

to the preamble. This will change the sans serif text font only. If you want to use MyriadPro as your main font, add

```
\renewcommand{\familydefault}{\sfdefault}
```

to your preamble.

Acknowledgements

CronosPro is heavily based on the MinionPro package by Achim Blumensath, Andreas Bühmann and Michael Zedler.

2 Interference with other packages

The CronosPro package automatically loads the following packages: textcomp and fontaxes. If you want to pass options to these packages you can either put the corresponding \usepackage command before the \usepackage{CronosPro} or you can include the options in the \documentclass command.

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

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

3 Options

Font selection

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

smallfamily*	use only regular and bold face
medfamily	use semibold face in addition to smallfamily
noopticals*	use only the optical size Text
opticals	use the optical sizes Caption, Text, Subhead, and Display
slides	use only the optical size Caption (useful for slides)

normalsize*	adapt optical sizes to the normal font size (10 pt, 11 pt, 12 pt)
nonormalsize	use static settings for the optical sizes

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

Miscellaneous options

scale=<*factor*>	scale the font size by <*factor*>
footnotefigures	use special figures for footnote marks, i.e., example[6,9] instead of example[6,9]. This option can only be used if the footnote marks consist *solely* of figures. Note that if you use one of the KOMA-Script classes, customization of the footnotes via `\deffootnote` before loading this package will be overwritten.

4   Figure selection

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

	text figures	lining figures
proportional	0123456789	0123456789
tabular	0123456789	0123456789

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

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

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

5   Additional font shapes and symbols

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

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

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

Ornaments can be accessed via the pifont package with the command

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

The available glyphs with their numbers are listed in the table below.

100	101	102	103	104	105	106	107	108	109	110	111	112

6   Language support

The following encodings are supported:

Latin	OT1, T1, TS1, LY1

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

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

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

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

```
\input glyphtounicode
\pdfgentounicode=1
```

See the pdf TeX manual for details.

8 NFSS classification

Parenthesised combinations are provided via substitutions.

encoding	family	series	shape
OT1, T1, TS1, LY1	CronosPro-OsF, CronosPro-LF, CronosPro-TOsF, CronosPro-TLF	m, b (sb, bx), eb	n, it (sl), sw[1], sc, scit (scsl, scsw), ssc, sscit (sscsl, sscsw)
U	CronosPro-Extra	m, b (sb, bx), eb	n, it (sl)

9 Version history

Version 0.1: First version
Version 0.2: Fix[2] footnotefigures option with KOMA classes

10 The main style file

10.1 Options

```
1 ⟨*style⟩
2 \RequirePackage{kvoptions}
3 \SetupKeyvalOptions{
4   family = Cr,
5   prefix = Cr@
6 }
```

Font sets

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

```
7 \DeclareStringOption[1.]{scale}
8 \newcommand\Cr@minionint@opticals{-NoOpticals}
```

---

[1]via substitution in TS1 encoding
[2]based on http://tex.stackexchange.com/a/54954/11605

```
 9 \newcommand\Cr@minionint@bold{-Bold}
10 \DeclareVoidOption{slides}{%
11    \def\Cr@minionint@opticals{-NoOpticals}%
12    \PassOptionsToPackage{slides}{CronosPro-FontDef}}
13 \DeclareVoidOption{noopticals}{%
14    \def\Cr@minionint@opticals{-NoOpticals}%
15    \PassOptionsToPackage{noopticals}{CronosPro-FontDef}}
16 \DeclareVoidOption{opticals}{%
17    \def\Cr@minionint@opticals{}%
18    \PassOptionsToPackage{opticals}{CronosPro-FontDef}}
19 \DeclareVoidOption{smallfamily}{%
20    \def\Cr@minionint@bold{-Bold}%
21    \PassOptionsToPackage{smallfamily}{CronosPro-FontDef}}
22 \DeclareVoidOption{medfamily}{%
23    \def\Cr@minionint@bold{-Semibold}%
24    \PassOptionsToPackage{medfamily}{CronosPro-FontDef}}
25 %\DeclareVoidOption{fullfamily}{%
26 %    \def\Cr@minionint@bold{-Semibold}%
27 %    \PassOptionsToPackage{fullfamily}{CronosPro-FontDef}}
28 \DeclareVoidOption{normalsize}{%
29    \PassOptionsToPackage{normalsize}{CronosPro-FontDef}}
30 \DeclareVoidOption{nonormalsize}{%
31    \PassOptionsToPackage{nonormalsize}{CronosPro-FontDef}}
```

Figure style

```
32 \newcommand\Cr@Text@Fig{OsF}
33 \newcommand\Cr@Math@Fig{OsF}
34 \newcommand\Cr@Text@Family{CronosPro-\Cr@Text@Fig}
35 \newcommand\Cr@Math@Family{CronosPro-\Cr@Math@Fig}
36 \newcommand\Cr@Math@TFamily{CronosPro-T\Cr@Math@Fig}
37 \newcommand\Cr@Math@LetterShape{it}

38 \DeclareVoidOption{textosf}{\def\Cr@Text@Fig{OsF}}
39 \DeclareVoidOption{textlf}{\def\Cr@Text@Fig{LF}}
40 \DeclareVoidOption{mathosf}{\def\Cr@Math@Fig{OsF}}
41 \DeclareVoidOption{mathlf}{\def\Cr@Math@Fig{LF}}
42 \DeclareVoidOption{osf}{\setkeys{Cr}{textosf,mathosf}}
43 \DeclareVoidOption{lf}{\setkeys{Cr}{textlf,mathlf}}
44 \DeclareVoidOption{mathtabular}{\let\Cr@Math@Family\Cr@Math@TFamily}
```

Miscellaneous options

Footnote figures, extra spacing for the apostrophe.

```
45 \DeclareVoidOption{footnotefigures}{%
46    \def\@makefnmark{%
47       \begingroup
48       \normalfont
49       \fontfamily{CronosPro-Extra}\fontencoding{U}\selectfont
50       \@thefnmark
51       \endgroup}%
```

```
52    \@ifundefined{KOMAClassName}{}{\deffootnote[1em]{1.5em}{1em}{%
53        \fontfamily{CronosPro-Extra}\fontencoding{U}\selectfont\thefootnotemark}}}
54 %
55 \newcommand\Cr@Quote@Spacing{}
56 \DeclareVoidOption{loosequotes}{%
57    \def\Cr@Quote@Spacing{\Cr@Quote@Spacing@Loose}}
```

Defaults

```
58 \ProcessKeyvalOptions{Cr}\relax
```

10.2   Font declarations

```
59 \RequirePackage{CronosPro-FontDef}
60 \@ifpackageloaded{textcomp}{}{\RequirePackage{textcomp}}
```

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

```
61 \edef\sfdefault{\Cr@Text@Family}
```

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

```
62 \def\Cr@Quote@Spacing@Loose{%
63    \@ifpackageloaded{microtype}{}{\RequirePackage[kerning=true]{microtype}}
64    \@ifundefined{SetExtraKerning}{}{
65      \let\Cr@Set@Quote@Spacing\SetExtraKerning}
66 %      \SetExtraKerning
67 %         [ unit = 1em ]
68 %         { encoding = {OT1,T1,U,LY1},
69 %           family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
70 %           shape    = n }
71 %         { \textquotedblleft = {30,30},  \textquotedblright = {30,30},
72 %           \textquoteleft    = {30,30},  \textquoteright    = {30,30} }}
73 }
74 \newcommand*\Cr@Set@Quote@Spacing[3][]{}
75 \Cr@Quote@Spacing
76 \Cr@Set@Quote@Spacing
77 [ unit = 1em ]
78 { encoding = {OT1,T1,U,LY1},
79   family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
80   shape    = {n,it} }
81 { \textquotedblleft = {30,30},  \textquotedblright = {30,30},
82   \textquoteleft    = {30,30},  \textquoteright    = {30,30} }
```

10.3   Font selection

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

```
83 \RequirePackage{fontaxes}[2005/05/04]
```

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

```
84 \let\oldstylenums\textfigures
```

10.4 pdfTeX to-unicode support

Old versions of CronosPro have non-standard glyph names.

```
85 \@ifundefined{pdfglyphtounicode}{}{
86   \pdfglyphtounicode{uniEFD5}{03DD}% uni03DD
87   \pdfglyphtounicode{uniEFED}{02D9}% dotaccent.cap
88   \pdfglyphtounicode{uniEFEE}{02D8}% breve.cap
89   \pdfglyphtounicode{uniEFF1}{02DB}% ogonek.cap
90   \pdfglyphtounicode{uniEFF2}{00B8}% cedilla.cap
91   \pdfglyphtounicode{uniEFF3}{02DA}% ring.cap
92   \pdfglyphtounicode{uniEFF5}{02DC}% tilde.cap
93   \pdfglyphtounicode{uniEFF7}{02C6}% circumflex.cap
94   \pdfglyphtounicode{uniF628}{2030}% perthousand.oldstyle
95   \pdfglyphtounicode{uniF62C}{0028}% parenleft.denominator
96   \pdfglyphtounicode{uniF62D}{0029}% parenright.denominator
97   \pdfglyphtounicode{uniF631}{0028}% parenleft.numerator
98   \pdfglyphtounicode{uniF632}{0029}% parenright.numerator
99   \pdfglyphtounicode{uniF638}{0030}% zero.slash
100  \pdfglyphtounicode{uniF639}{0030}% zero.fitted
101  \pdfglyphtounicode{uniF63A}{0032}% two.fitted
102  \pdfglyphtounicode{uniF63B}{0033}% three.fitted
103  \pdfglyphtounicode{uniF63C}{0034}% four.fitted
104  \pdfglyphtounicode{uniF63D}{0035}% five.fitted
105  \pdfglyphtounicode{uniF63E}{0036}% six.fitted
106  \pdfglyphtounicode{uniF63F}{0037}% seven.fitted
107  \pdfglyphtounicode{uniF640}{0038}% eight.fitted
108  \pdfglyphtounicode{uniF641}{0039}% nine.fitted
109  \pdfglyphtounicode{uniF642}{0025}% percent.oldstyle
110  \pdfglyphtounicode{uniF643}{0030}% zero.taboldstyle
111  \pdfglyphtounicode{uniF644}{0031}% one.taboldstyle
112  \pdfglyphtounicode{uniF645}{0032}% two.taboldstyle
113  \pdfglyphtounicode{uniF646}{0033}% three.taboldstyle
114  \pdfglyphtounicode{uniF647}{0034}% four.taboldstyle
115  \pdfglyphtounicode{uniF648}{0035}% five.taboldstyle
116  \pdfglyphtounicode{uniF649}{0036}% six.taboldstyle
117  \pdfglyphtounicode{uniF64A}{0037}% seven.taboldstyle
118  \pdfglyphtounicode{uniF64B}{0038}% eight.taboldstyle
119  \pdfglyphtounicode{uniF64C}{0039}% nine.taboldstyle
120  \pdfglyphtounicode{uniF64D}{20A1}% colonmonetary.taboldstyle
121  \pdfglyphtounicode{uniF64E}{20AC}% Euro.taboldstyle
122  \pdfglyphtounicode{uniF64F}{0192}% florin.taboldstyle
123  \pdfglyphtounicode{uniF650}{0023}% numbersign.taboldstyle
124  \pdfglyphtounicode{uniF651}{00A3}% sterling.taboldstyle
125  \pdfglyphtounicode{uniF652}{00A5}% yen.taboldstyle
126  \pdfglyphtounicode{uniF653}{0024}% dollar.taboldstyle
127  \pdfglyphtounicode{uniF654}{00A2}% cent.taboldstyle
128  \pdfglyphtounicode{uniF655}{0030}% zero.denominator
129  \pdfglyphtounicode{uniF656}{0031}% one.denominator
130  \pdfglyphtounicode{uniF657}{0032}% two.denominator
131  \pdfglyphtounicode{uniF658}{0033}% three.denominator
```

```
132   \pdfglyphtounicode{uniF659}{0034}% four.denominator
133   \pdfglyphtounicode{uniF65A}{0035}% five.denominator
134   \pdfglyphtounicode{uniF65B}{0036}% six.denominator
135   \pdfglyphtounicode{uniF65C}{0037}% seven.denominator
136   \pdfglyphtounicode{uniF65D}{0038}% eight.denominator
137   \pdfglyphtounicode{uniF65E}{0039}% nine.denominator
138   \pdfglyphtounicode{uniF65F}{002C}% comma.denominator
139   \pdfglyphtounicode{uniF660}{002E}% period.denominator
140   \pdfglyphtounicode{uniF661}{0030}% zero.numerator
141   \pdfglyphtounicode{uniF662}{0031}% one.numerator
142   \pdfglyphtounicode{uniF663}{0032}% two.numerator
143   \pdfglyphtounicode{uniF664}{0033}% three.numerator
144   \pdfglyphtounicode{uniF665}{0034}% four.numerator
145   \pdfglyphtounicode{uniF666}{0035}% five.numerator
146   \pdfglyphtounicode{uniF667}{0036}% six.numerator
147   \pdfglyphtounicode{uniF668}{0037}% seven.numerator
148   \pdfglyphtounicode{uniF669}{0038}% eight.numerator
149   \pdfglyphtounicode{uniF66A}{0039}% nine.numerator
150   \pdfglyphtounicode{uniF66B}{002C}% comma.numerator
151   \pdfglyphtounicode{uniF66C}{002E}% period.numerator
152   \pdfglyphtounicode{uniF66D}{0103}% abreve.sc
153   \pdfglyphtounicode{uniF66F}{0105}% aogonek.sc
154   \pdfglyphtounicode{uniF671}{0107}% cacute.sc
155   \pdfglyphtounicode{uniF672}{010D}% ccaron.sc
156   \pdfglyphtounicode{uniF675}{010F}% dcaron.sc
157   \pdfglyphtounicode{uniF676}{0111}% dcroat.sc
158   \pdfglyphtounicode{uniF678}{011B}% ecaron.sc
159   \pdfglyphtounicode{uniF67B}{014B}% eng.sc
160   \pdfglyphtounicode{uniF67C}{0119}% eogonek.sc
161   \pdfglyphtounicode{uniF67D}{011F}% gbreve.sc
162   \pdfglyphtounicode{uniF684}{0133}% ij.sc
163   \pdfglyphtounicode{uniF687}{0129}% itilde.sc
164   \pdfglyphtounicode{uniF68A}{013A}% lacute.sc
165   \pdfglyphtounicode{uniF68B}{013E}% lcaron.sc
166   \pdfglyphtounicode{uniF68E}{0144}% nacute.sc
167   \pdfglyphtounicode{uniF68F}{0148}% ncaron.sc
168   \pdfglyphtounicode{uniF692}{0151}% ohungarumlaut.sc
169   \pdfglyphtounicode{uniF695}{0155}% racute.sc
170   \pdfglyphtounicode{uniF696}{0159}% rcaron.sc
171   \pdfglyphtounicode{uniF698}{015B}% sacute.sc
172   \pdfglyphtounicode{uniF699}{015F}% scedilla.sc
173   \pdfglyphtounicode{uniF69D}{0165}% tcaron.sc
174   \pdfglyphtounicode{uniF69E}{0163}% tcommaaccent.sc
175   \pdfglyphtounicode{uniF6A0}{0171}% uhungarumlaut.sc
176   \pdfglyphtounicode{uniF6A3}{016F}% uring.sc
177   \pdfglyphtounicode{uniF6A4}{0169}% utilde.sc
178   \pdfglyphtounicode{uniF6AA}{1EF3}% ygrave.sc
179   \pdfglyphtounicode{uniF6AB}{017A}% zacute.sc
180   \pdfglyphtounicode{uniF6AC}{017C}% zdotaccent.sc
181   \pdfglyphtounicode{uniF6DC}{0031}% one.fitted
```

```
182 }
```

10.5   Superior and inferior figures

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

```
183 \def\@for@tok#1:=#2\do#3{%
184   \expandafter\def\expandafter\@fortmp\expandafter{#2}%
185   \ifx\@fortmp\@empty \else
186     \expandafter\@forloop@tok#2\@nil\@nil\@@#1{#3}%
187   \fi}
188 \def\@forloop@tok#1#2#3\@@#4#5{%
189   \def#4{#1}%
190   \ifx #4\@nnil \else
191     #5%
192     \def#4{#2}%
193     \ifx #4\@nnil \else
194       #5\@iforloop@tok #3\@@#4{#5}%
195   \fi\fi}
196 \def\@iforloop@tok#1#2\@@#3#4{%
197   \def#3{#1}%
198   \ifx #3\@nnil
199     \expandafter\@fornoop
200   \else
201     #4\relax\expandafter\@iforloop@tok
202   \fi
203   #2\@@#3{#4}}
204 %
205 \newcommand*\Cr@extra@font{%
206   \fontencoding{U}\fontfamily{CronosPro-Extra}\selectfont}
207 \newcommand*\Cr@numerator@fig[1]{{\Cr@extra@font\Cr@@numerator@fig{#1}}}
208 \newcommand*\Cr@denominator@fig[1]{{\Cr@extra@font\Cr@@denominator@fig{#1}}}
209 \newcommand*\Cr@superior@fig[1]{{\Cr@extra@font\Cr@@superior@fig{#1}}}
210 \newcommand*\Cr@inferior@fig[1]{{\Cr@extra@font\Cr@@inferior@fig{#1}}}
211 \newcommand*\Cr@@numerator@fig[1]{%
212   \@for@tok\@nf@fig:=#1\do{%
213     \ifcase\@nf@fig
214         \char'00%
215     \or\char'01%
216     \or\char'02%
217     \or\char'03%
218     \or\char'04%
219     \or\char'05%
220     \or\char'06%
221     \or\char'07%
222     \or\char'10%
223     \or\char'11%
224     \else
225       \@latex@error{invalid argument to \string\Cr@@numerator@fig}%
226     \fi
```

```
227        }}
228  \newcommand*\Cr@@denominator@fig[1]{%
229    \@for@tok\@nf@fig:=#1\do{%
230      \ifcase\@nf@fig
231        \char'20%
232      \or\char'21%
233      \or\char'22%
234      \or\char'23%
235      \or\char'24%
236      \or\char'25%
237      \or\char'26%
238      \or\char'27%
239      \or\char'30%
240      \or\char'31%
241      \else
242        \@latex@error{invalid argument to \string\Cr@@denominator@fig}%
243      \fi
244      }}
245  \newcommand*\Cr@@superior@fig[1]{%
246    \@for@tok\@nf@fig:=#1\do{%
247      \ifcase\@nf@fig
248        \char'60%
249      \or\char'61%
250      \or\char'62%
251      \or\char'63%
252      \or\char'64%
253      \or\char'65%
254      \or\char'66%
255      \or\char'67%
256      \or\char'70%
257      \or\char'71%
258      \else
259        \@latex@error{invalid argument to \string\Cr@@superior@fig}%
260      \fi
261      }}
262  \newcommand*\Cr@@inferior@fig[1]{%
263    \@for@tok\@nf@fig:=#1\do{%
264      \ifcase\@nf@fig
265        \char'100%
266      \or\char'101%
267      \or\char'102%
268      \or\char'103%
269      \or\char'104%
270      \or\char'105%
271      \or\char'106%
272      \or\char'107%
273      \or\char'110%
274      \or\char'111%
275      \else
276        \@latex@error{invalid argument to \string\Cr@@inferior@fig}%
```

```
277    \fi
278    }}
```

`\Cr@ensure@text` switches to text mode, if necessary.

```
279 \newcommand*\Cr@ensure@text[1]{%
280    \ifmmode
281       \Mn@Text@With@MathVersion{#1}%
282    \else
283       #1%
284    \fi}
```

`\smallfrac` and `\slantfrac` assemble numerical fractions.

```
285 \newcommand*\@Cr@smallfrac[2]{%
286    \leavevmode
287    \setbox\@tempboxa
288       \vbox{%
289          \baselineskip\z@skip%
290          \lineskip.25ex%
291          \lineskiplimit-\maxdimen
292          \ialign{\hfil##\hfil\crcr
293                 \vbox to 2.13ex{\vss\hbox{\Cr@numerator@fig{#1}}\vskip.68ex}\crcr
294                 \leavevmode\leaders\hrule height 1.1ex depth -1.01ex\hfill\crcr
295                 \vtop to 1ex{\vbox{}\hbox{\Cr@denominator@fig{#2}}\vss}\crcr
296                 \noalign{\vskip-1.47ex}}}%
297    \dp\@tempboxa=0.49ex%
298    \box\@tempboxa}
299 \newcommand*\@Cr@slantfrac[2]{%
300    {\Cr@extra@font\Cr@@numerator@fig{#1}\kern-0.05em/\kern-0.06em\Cr@@denominator@fig{#2}}}
301 \DeclareRobustCommand*\smallfrac[2]{\Cr@ensure@text{\kern0.06em\@Cr@smallfrac{#1}{#2}\kern0.09
302 \DeclareRobustCommand*\slantfrac[2]{\Cr@ensure@text{\kern0.06em\@Cr@slantfrac{#1}{#2}\kern0.09
```

10.6   Additional symbols

```
303 % fix \r A
304 \DeclareTextCompositeCommand{\r}{OT1}{A}
305 {\leavevmode\setbox\z@\hbox{!}\dimen@\ht\z@\advance\dimen@-1ex%
306    \ooalign{\hss\raise.67\dimen@\hbox{\char23}\hss\crcr A}}
307
308 \DeclareEncodingSubset{TS1}{CronosPro-LF}   {1}%
309 \DeclareEncodingSubset{TS1}{CronosPro-TLF}  {1}%
310 \DeclareEncodingSubset{TS1}{CronosPro-OsF}  {1}%
311 \DeclareEncodingSubset{TS1}{CronosPro-TOsF}{1}%
312 \AtBeginDocument{
313    \UndeclareTextCommand{\textvisiblespace}{T1}%
314    \UndeclareTextCommand{\textcompwordmark}{T1}%
315    \UndeclareTextCommand{\textsterling}{T1}%
316    \UndeclareTextCommand{\j}{T1}%
317    \UndeclareTextCommand{\j}{LY1}%
318 }
```

10.7 Logos

Correct logos.

```
319 \def\TeX{T\kern-.1667em\lower.4ex\hbox{E}\kern-.125emX\@}
320 \DeclareRobustCommand{\LaTeX}{L\kern-.32em%
321   {\sbox\z@ T%
322     \vbox to\ht\z@{\hbox{\check@mathfonts
323         \fontsize\sf@size\z@
324         \math@fontsfalse\selectfont
325         A}%
326       \vss}%
327   }%
328   \kern-.15em%
329   \TeX}
```

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

```
330 %\normalfont
331 ⟨/style⟩
```

11 Support for character protrusion

The microtype configuration. All four CronosPro families use the same file (cf. section 12).

```
332 ⟨∗mtcfg⟩
333 \SetProtrusion
334   [ name      = CronosPro-OT1-Roman ]
335   { encoding = OT1,
336     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
337     shape    = n }
338   {
339       A = {40,40},
340       F = {  ,60},
341       J = {90,  },
342       K = {  ,50},
343       L = {  ,60},
344       T = {50,50},
345       V = {40,40},
346       W = {30,30},
347       X = {50,50},
348       Y = {50,50},
349       k = {  ,60},
350       r = {  ,80},
351       t = {  ,100},
352       v = {70,70},
353       w = {40,40},
354       x = {60,60},
355       y = {70,70},
356       ! = {70,180},
357       ( = {60,30},    ) = {30,60},
358       [ = {100,160},  ] = {160,100},
```

```
359    {,} = {440,700},
360       . = {660,700},
361       : = {400,480},
362       ; = {350,440},
363       - = {700,700},
364    \textendash       = {390,480},  \textemdash       = {220,270},
365    \textquotedblleft = {380,250},  \textquotedblright = {250,380},
366    \textquoteleft    = {670,450},  \textquoteright    = {450,670},
367  }
368 \SetProtrusion
369   [ name      = CronosPro-T1-Roman,
370     load      = CronosPro-OT1-Roman ]
371   { encoding = T1,
372     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
373     shape    = n }
374   {
375     023 = {  ,40}, % fft ligature
376     032 = {  ,50}, % ft ligature
377     191 = {30,30}, % Th ligature
378     127 = {620,700}, % hyphen
379     \AE = {40,  }, % AE
380     \quotesinglbase = {670,670},  \quotedblbase    = {370,370},
381     \guilsinglleft  = {500,360},  \guilsinglright = {360,500},
382     \guillemotleft  = {320,230},  \guillemotright = {230,320},
383   }
384 \SetProtrusion
385   [ name      = CronosPro-OT1-Italic]
386   { encoding = OT1,
387     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
388     shape    = {it,sl,sw} }
389   {
390       A = {120,50},
391       B = {90,-50},
392       C = {50,-60},
393       D = {70,-30},
394       E = {90,-50},
395       F = {100,-40},
396       G = {50,-60},
397       H = {70,-40},
398       I = {150,-90},
399       J = {250,-130},
400       K = {80,-50},
401       L = {90,60},
402       M = {60,-40},
403       N = {70,-40},
404       O = {70,-30},
405       P = {70,-110},
406       Q = {40,-40},
407       R = {80,-50},
```

```
408        S = {70,-70},
409        T = {130,  },
410        U = {70,-40},
411        V = {120,30},
412        W = {90,20},
413        X = {50,  },
414        Y = {160,  },
415        Z = {50,-50},
416        d = {60,-60},
417        f = {  ,-190},
418     027 = {  ,-70}, % ff ligature
419        g = {-70,-70},
420        i = {  ,-110},
421     025 = {  ,-60}, % dotlessi
422     028 = {  ,-60}, % fi ligature
423     030 = {  ,-30}, % ffi ligature
424        j = {-90,-150},
425        p = {-40,  },
426        r = {  ,80},
427        t = {  ,100},
428        v = {90,  },
429        w = {60,10},
430        x = {90,  },
431        ! = {190,40},
432        ( = {90,  },    ) = {90,  },
433        [ = {90,90},    ] = {120,60},
434      {,} = {210,680},
435        . = {640,680},
436        : = {380,430},
437        ; = {  ,430},
438        - = {750,750},
439     \textquoteleft    = {690,140},  \textquoteright    = {470,230},
440     \textendash       = {400,500},  \textemdash        = {220,280},
441     \textquotedblleft = {520,130},  \textquotedblright = {520,130},
442   }

443 \SetProtrusion
444   [ name      = CronosPro-T1-Italic,
445     load      = CronosPro-OT1-Italic ]
446   { encoding = T1,
447     family    = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
448     shape     = {it,sl,sw} }
449   {
450     023 = {  ,40}, % fft ligature
451     032 = {  ,50}, % ft ligature
452     191 = {80,30}, % Th ligature
453     127 = {660,750}, % hyphen
454     \AE = {90,-40}, % AE
455     131 = {80,-30}, % Dcaron
456     132 = {70,-40}, % Ecaron
```

```
457    156 = {80,-60}, % IJ
458    \OE = {50,-30}, % OE
459    188 = {   ,-80}, % ij
460    184 = {70,70}, % ydieresis
461    253 = {70,70}, % yacute
462    \quotesinglbase = {220,700},  \quotedblbase   = {130,400},
463    \guilsinglleft  = {500,180},  \guilsinglright = {350,350},
464    \guillemotleft  = {310,110},  \guillemotright = {230,230},
465  }
```

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

```
466 \SetProtrusion
467   [ name      = CronosPro-OT1-Smallcaps ]
468   { encoding = OT1,
469     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
470     shape    = {sc,ssc} }
471   {}
472 \SetProtrusion
473   [ name      = CronosPro-T1-Smallcaps,
474     load      = CronosPro-OT1-Smallcaps ]
475   { encoding = T1,
476     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
477     shape    = {sc,ssc} }
478   {}
479 \SetProtrusion
480   [ name      = CronosPro-OT1-SmallcapsItalic ]
481   { encoding = OT1,
482     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
483     shape    = {scit,sscit} }
484   {}
485 \SetProtrusion
486   [ name      = CronosPro-T1-SmallcapsItalic,
487     load      = CronosPro-OT1-SmallcapsItalic ]
488   { encoding = T1,
489     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
490     shape    = {scit,sscit} }
491   {}
492 \SetProtrusion
493   [ name      = CronosPro-other-Roman ]
494   { encoding = {U},
495     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
496     shape    = n }
497   {
498      ! = {70,180},
499      ( = {60,30},    ) = {30,60},
500      [ = {100,160},  ] = {160,100},
501     {,} = {440,700},
502      . = {660,700},
```

```
503        : = {400,480},
504        ; = {350,440},
505        - = {700,700},
506     \textendash       = {390,480},  \textemdash         = {220,270},
507     \textquotedblleft = {380,250},  \textquotedblright = {250,380},
508     \textquoteleft    = {670,450},  \textquoteright    = {450,670},
509   }
510 \SetProtrusion
511   [ name      = CronosPro-other-Italic ]
512   { encoding = {U},
513     family   = {CronosPro-OsF,CronosPro-LF,CronosPro-TOsF,CronosPro-TLF},
514     shape    = {it,sl,sw} }
515   {
516     ! = {190,40},
517     ( = {90,   },    ) = {90,   },
518     [ = {90,90},     ] = {120,60},
519     {,} = {210,680},
520     . = {640,680},
521     : = {380,430},
522     ; = {    ,430},
523     - = {750,750},
524     \textquoteleft    = {690,140},  \textquoteright    = {470,230},
525     \textendash       = {400,500},  \textemdash         = {220,280},
526     \textquotedblleft = {520,130},  \textquotedblright = {520,130},
527   }
528 ⟨/mtcfg⟩
```

12   Font definition files

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

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

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

```
529 ⟨*fontdef⟩
530 \ifx\Cr@DeclareFontShape\@undefined\else\endinput\fi
```

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

```
531 \ifx\@nodocument\relax
532   \input{otfontdef.sty}
533 \else
534   \NeedsTeXFormat{LaTeX2e}
535   \RequirePackage{otfontdef}
536 \fi
```

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

```
537 \ifx\@nodocument\relax
538   \begingroup\escapechar`\\
539 \fi
```

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

```
540 \newcommand\Cr@option@opticals{noopticals}
541 \newcommand\Cr@option@fontset{smallfamily}
542 \newdimen\Cr@option@normalsize
543 \global\Cr@option@normalsize10pt
```

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

```
544 \newif\ifCr@option@normalsize
545 \Cr@option@normalsizetrue

546 \ifx\@nodocument\relax\else
547   \DeclareOption{slides}    {\let\Cr@option@opticals\CurrentOption}
548   \DeclareOption{opticals}   {\let\Cr@option@opticals\CurrentOption}
549   \DeclareOption{noopticals} {\let\Cr@option@opticals\CurrentOption}
550   \DeclareOption{smallfamily}{\let\Cr@option@fontset\CurrentOption}
551   \DeclareOption{medfamily}  {\let\Cr@option@fontset\CurrentOption}
552 %  \DeclareOption{fullfamily} {\let\Cr@option@fontset\CurrentOption}
553   \DeclareOption{normalsize}  {\Cr@option@normalsizetrue}
554   \DeclareOption{nonormalsize}{\Cr@option@normalsizefalse}
555   \ExecuteOptions{smallfamily,noopticals,normalsize}
556   \ProcessOptions\relax
557 \fi
```

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

```
558 \ifCr@option@normalsize
559   \begingroup
560   \def\set@fontsize#1#2#3#4\@nil{%
561     \@defaultunits\global\Cr@option@normalsize#2pt\relax\@nnil}%
562   \normalsize\@nil
563   \endgroup
564 \fi
```

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

```
565 \otf@makeglobal{Cr@option@opticals}
566 \otf@makeglobal{Cr@option@fontset}
567 \ifx\@nodocument\relax\else
568   \PackageInfo{CronosPro-FontDef}{%
569     Configuration:\space\Cr@option@fontset,\space\Cr@option@opticals,\space
570     normalsize=\the\Cr@option@normalsize}%
571 \fi
```

Configuration database

18

```
572 \newcount\Cr@config@cnt
573 \Cr@config@cnt=0
574 \newcommand\Cr@curr@config{Cr@config@\romannumeral\Cr@config@cnt}
```

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

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

```
575 \newcommand\Cr@AddToConfig{%
576   \begingroup
577   \nfss@catcodes
578   \expandafter\endgroup
579   \Cr@AddToConfig@
580 }
581 \newcommand\Cr@AddToConfig@[3]{%
582   \advance\Cr@config@cnt\@ne
583   \@namedef{\Cr@curr@config}{#3}%
584   \otf@makeglobal{\Cr@curr@config}
585 ⟨debug & show⟩\expandafter\show\csname\Cr@curr@config\endcsname
586   \@for\Cr@tempa:=#2\do{%
587     \@ifundefined{Cr@config@#1@\Cr@tempa}{%
588       \@temptokena{}%
589     }{%
590       \@temptokena\expandafter\expandafter\expandafter
591         {\csname Cr@config@#1@\Cr@tempa\endcsname}%
592     }%
593     \@expandtwoargs\@namedef{Cr@config@#1@\Cr@tempa}{%
594       \the\@temptokena
595       \expandafter\noexpand\csname\Cr@curr@config\endcsname
596     }%
597     \otf@makeglobal{Cr@config@#1@\Cr@tempa}% perhaps defer to only execute once
598 ⟨debug & show⟩\expandafter\show\csname Cr@config@#1@\Cr@tempa\endcsname
599   }%
600 }
```

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

  \Cr@config@shape@sw

  \Cr@config@xi \Cr@config@xiv \Cr@config@xv

  <-8>otf*[spacing=l1]<->otf*[variant=swash]<->otf*CronosPro-It

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

```
601 \newcommand*\Cr@UseConfig[2]{%
602   \Cr@UseConfigOrDefault{#1}{#2}{}%
603 }
604 \newcommand*\Cr@UseConfigOrDefault[3]{%
```

```
605    \@ifundefined{Cr@config@#1@#2}{#3}%
606      {\@nameuse{Cr@config@#1@#2}}%
607 }
608 \newcommand*\Cr@TheConfig[2]{%
609    \@ifundefined{Cr@config@#1@#2}{}{%
610      \expandafter\noexpand\csname Cr@config@#1@#2\endcsname
611    }%
612 }
613 \otf@makeglobal{Cr@UseConfig}
614 \otf@makeglobal{Cr@UseConfigOrDefault}
615 \otf@makeglobal{Cr@TheConfig}
```

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

```
616 \RequirePackage{fltpoint}
617 \fpDecimalSign{.}
618 \newcommand*{\Cr@calc@bsize}[2]{\fpDiv{#1}{#2}{\Cr@scale}}
```

Here comes the configuration.

```
619 \Cr@calc@bsize{\Cr@s@capt}{8.5}
620 \Cr@calc@bsize{\Cr@s@text}{13.1}
621 \Cr@calc@bsize{\Cr@s@subh}{20}
622 \Cr@AddToConfig{opticals}{opticals}{
623              <-\Cr@s@capt>   otf* [optical=Capt]
624    <\Cr@s@capt-\Cr@s@text>   otf* [optical=Text]
625    <\Cr@s@text-\Cr@s@subh>   otf* [optical=Subh]
626    <\Cr@s@subh->             otf* [optical=Disp]
627 }
628 \Cr@AddToConfig{opticals}{noopticals}{
629        <->       otf* [optical=Text]
630 }
631 \Cr@AddToConfig{opticals}{slides}{
632        <->       otf* [optical=Capt]
633 }

634 \ifdim\Cr@option@normalsize<10.1pt
635    \Cr@calc@bsize{\Cr@s@semif}{6}
636    \Cr@calc@bsize{\Cr@s@medif}{8.5}
637 \else
638    \Cr@calc@bsize{\Cr@s@semif}{6}
639    \Cr@calc@bsize{\Cr@s@medif}{10.1}
640 \fi
641 \Cr@AddToConfig{fontset/weight}{fullfamily/m}{
642              < -\Cr@s@semif> otf* [weight=Semibold]
643    <\Cr@s@semif-\Cr@s@medif> otf* [weight=Medium]
644    <\Cr@s@medif->            otf* [weight=Regular]
645 }
646 \Cr@calc@bsize{\Cr@s@semim}{6}
647 \Cr@AddToConfig{fontset/weight}{medfamily/m}{
648              <-\Cr@s@semim> otf* [weight=Semibold]
```

```
649   <\Cr@s@semim->              otf* [weight=Regular]
650 }
651 \Cr@AddToConfig{fontset/weight}{smallfamily/m}{
652        <->     otf* [weight=Regular]
653 }
654 %
655 \Cr@calc@bsize{\Cr@s@bold}{6}
656 \Cr@AddToConfig{fontset/weight}{fullfamily/b,medfamily/b}{
657            <-\Cr@s@bold>  otf* [weight=Bold]
658   <\Cr@s@bold->            otf* [weight=Semibold]
659 }
660 \Cr@AddToConfig{fontset/weight}{smallfamily/b}{
661        <->     otf* [weight=Bold]
662 }
663 %
664 \Cr@AddToConfig{weight}{eb}{
665        <->     otf* [weight=Bold]
666 }

667 \Cr@AddToConfig{shape}{ssc,sscit}{
668        <->     otf* [spacing=l2]
669 }
670 \Cr@calc@bsize{\Cr@s@spac}{8}
671 \Cr@AddToConfig{shape}{n,it,sw,sc,scit}{
672        <-\Cr@s@spac>    otf* [spacing=l1]
673 }
674 \Cr@AddToConfig{encoding/shape}{U/n,U/it}{
675        <->     otf* [spacing=]
676 }
677 %
678 \Cr@AddToConfig{shape}{sc,ssc,scit,sscit}{
679        <->     otf* [variant=sc]
680 }
681 \Cr@AddToConfig{shape}{sw}{
682        <->     otf* [variant=swash]
683 }

684 \Cr@AddToConfig{shape}{it,scit,sscit,sw}{
685        <->     otf* CronosPro-It
686 }
687 \Cr@AddToConfig{shape}{n,sc,ssc}{
688        <->     otf* CronosPro
689 }
690 \Cr@AddToConfig{encoding/shape}{OML/it}{
691        <->     otf* [figures=] CronosPro-Mixed
692 }
693 \Cr@AddToConfig{encoding/shape}{OML/n}{
694        <->     otf* [figures=] CronosPro-French
695 }
696 \Cr@AddToConfig{scale}{scale}{
697        <->     otf* [scale=\Cr@scale]
```

```
698 }
```

Substitutions

```
699 \Cr@AddToConfig{sub:series} {sb}    {b}
700 \Cr@AddToConfig{sub:series} {bx}    {b}
701 \Cr@AddToConfig{sub:shape}  {sl}    {it}
702 \Cr@AddToConfig{sub:shape}  {scsl}  {scit}
703 \Cr@AddToConfig{sub:shape}  {sscsl} {sscit}
704 \Cr@AddToConfig{sub:shape}  {scsw}  {scit}
705 \Cr@AddToConfig{sub:shape}  {sscsw} {sscit}
706 \Cr@AddToConfig{sub:encoding/shape}{TS1/sw}{it}
```

Code for the last argument of \DeclareFontShape

```
707 \Cr@AddToConfig{code:shape}{sw}{
708   \skewchar\font='337
709 }
```

Declaration of font families and shapes

```
710 \newcommand*\Cr@DeclareFontShape[6][]{%
```

Check if any substitutions are specified.
```
711   \edef\@tempa{%
712     \Cr@UseConfig{sub:series}{#4}%
713     \Cr@UseConfigOrDefault{sub:encoding/shape}{#2/#5}{%
714       \Cr@UseConfig{sub:shape}{#5}}%
715   }%
716   \ifx\@tempa\@empty
```

Collect the configuration and declare the font shape. \DeclareFontShape fully expands its fifth argument (with our macros \Cr@UseConfig in it), but we have to retrieve the code for the sixth argument ourselves.
```
717     \@temptokena={%
718       \DeclareFontShape{#2}{#3-#6}{#4}{#5}{%
719         \Cr@UseConfig{opticals}        {\Cr@option@opticals}%
720         \Cr@UseConfig{fontset/weight}{\Cr@option@fontset/#4}%
721         \Cr@UseConfig{weight}          {#4}%
722         \Cr@UseConfig{encoding/shape}{#2/#5}%
723         \Cr@UseConfig{shape}           {#5}%
724         \Cr@UseConfig{scale}           {scale}%
725       }}%
726     \edef\@tempa{\the\@temptokena{\Cr@TheConfig{code:shape}{#5}}}%
727     \@tempa
728   \else
```

Generate the substitution. (All substitutions are silent at the moment.)
```
729     \DeclareFontShape{#2}{#3-#6}{#4}{#5}{%
730       <->ssub*#3-#6%
731       /\Cr@UseConfigOrDefault{sub:series}{#4}{#4}%
732       /\Cr@UseConfigOrDefault{sub:encoding/shape}{#2/#5}{%
733         \Cr@UseConfigOrDefault{sub:shape}{#5}{#5}}%
734     }{}%
```

```
735    \fi
736 }
737 \otf@makeglobal{Cr@DeclareFontShape}
738 \otf@makeglobal{\string\Cr@DeclareFontShape}
```

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

```
739 \newcommand*\Cr@DeclareLargeFontFamily[3][LF,OsF,TLF,TOsF]{%
740    \Cr@DeclareFontFamily{#1}{#2}{#3}
741        {m,sb,b,bx,eb} {n,it,sc,ssc,scit,sscit,sw,scsl,scsw,sscsl,sscsw,sl}%
742 }
743 \newcommand*\Cr@DeclareSmallFontFamily[3][LF,OsF,TLF,TOsF]{%
744    \Cr@DeclareFontFamily{#1}{#2}{#3}
745        {m,sb,b,bx,eb} {n,it,sl}%
746 }
747 \newcommand*\Cr@DeclareMathFontFamily[3][TOsF]{%
748    \Cr@DeclareFontFamily[\skewchar\font=255]{#1}{#2}{#3}
749        {m,sb,b,bx,eb} {n,it}%
750 }
```

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

```
751 \otf@makeglobal{Cr@DeclareLargeFontFamily}
752 \otf@makeglobal{\string\Cr@DeclareLargeFontFamily}
753 \otf@makeglobal{Cr@DeclareSmallFontFamily}
754 \otf@makeglobal{\string\Cr@DeclareSmallFontFamily}
755 \otf@makeglobal{Cr@DeclareMathFontFamily}
756 \otf@makeglobal{\string\Cr@DeclareMathFontFamily}

757 \newcommand*\Cr@DeclareFontFamily[6][]{%
758    \@for\Cr@variant:=#2\do{%
759        \DeclareFontFamily {#3}{#4-\Cr@variant}{#1}%
760    }%
761    \Cr@DeclareFontShapes{#3}{#4}
762        {#5} {#6} {#2}%
763 }
764 \otf@makeglobal{Cr@DeclareFontFamily}
765 \otf@makeglobal{\string\Cr@DeclareFontFamily}

766 \newcommand*\Cr@DeclareFontShapes[5]{%
767    \@for\Cr@series:=#3\do{%
768        \@for\Cr@shape:=#4\do{%
769            \@for\Cr@variant:=#5\do{%
770                \Cr@DeclareFontShape{#1}{#2}{\Cr@series}{\Cr@shape}{\Cr@variant}%
771            }%
772        }%
773    }%
774 }
775 \otf@makeglobal{Cr@DeclareFontShapes}
```

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

```
776 \newdimen\Cr@fontdimen
```

```
777 \newcommand*\Cr@adjust@fontdimen[2]{%
778   \Cr@fontdimen=\fontdimen#1\font
779   #2%
780   \fontdimen#1\font=\Cr@fontdimen
781 }
782 \otf@makeglobal{Cr@adjust@fontdimen}

783 \ifx\@nodocument\relax
784   \endgroup
785 \fi
```

786 ⟨∗debug⟩
```
787 \newcommand\old@DeclareFontFamily{}
788 \let\old@DeclareFontFamily\DeclareFontFamily
789 \renewcommand\DeclareFontFamily[3]{
790   \begingroup\escapechar`\\%
791   \edef\@tempa{\noexpand\DeclareFontFamily{#1}{#2}}%
792   \@temptokena\expandafter{\@tempa{#3}}%
793   \message{\the\@temptokena}%
794   \endgroup
795   \old@DeclareFontFamily{#1}{#2}{#3}%
796 }
797 \newcommand\old@DeclareFontShape{}
798 \let\old@DeclareFontShape\DeclareFontShape
799 \renewcommand\DeclareFontShape[6]{
800   \begingroup\escapechar`\\%
801   \edef\@tempa{\noexpand\DeclareFontShape{#1}{#2}{#3}{#4}{#5}}%
802   \@temptokena\expandafter{\@tempa{#6}}%
803   \message{\the\@temptokena}%
804   \endgroup
805   \old@DeclareFontShape{#1}{#2}{#3}{#4}{#5}{#6}%
806 }
```
807 ⟨/debug⟩

We define font family aliases so that we can place all configurations for the CronosPro family variants into one microtype file: mt-CronosPro.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.
```
808 \gdef\Cr@MicroType@Aliases{%
809   \DeclareMicrotypeAlias{CronosPro-LF}{CronosPro}%
810   \DeclareMicrotypeAlias{CronosPro-OsF}{CronosPro}%
811   \DeclareMicrotypeAlias{CronosPro-TLF}{CronosPro}%
812   \DeclareMicrotypeAlias{CronosPro-TOsF}{CronosPro}%
813 }
814 \@ifundefined{Microtype@Hook}{%
815   \global\let\Microtype@Hook\Cr@MicroType@Aliases
816 }{%
817   \g@addto@macro\Microtype@Hook{\Cr@MicroType@Aliases}%
818 }%
819 \@ifundefined{DeclareMicroTypeAlias}{}{\Cr@MicroType@Aliases}%
```
820 ⟨/fontdef⟩

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

```
821 ⟨∗fd⟩
822 \input{CronosPro-FontDef.sty}%
823 ⟨Uextra⟩    \Cr@DeclareSmallFontFamily[Extra]{U}   {CronosPro}
824 ⟨OT1⟩        \Cr@DeclareLargeFontFamily        {OT1}{CronosPro}
825 ⟨T1⟩         \Cr@DeclareLargeFontFamily        {T1} {CronosPro}
826 ⟨LY1⟩        \Cr@DeclareLargeFontFamily        {LY1}{CronosPro}
827 ⟨TS1⟩        \Cr@DeclareLargeFontFamily        {TS1}{CronosPro}
828 ⟨/fd⟩
```