

Using Chivo fonts with LaTeX*

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Abstract

This package provides the necessary files to use the Chivo fonts with LaTeX. Chivo is a set of eighteen fonts provided by Héctor Gatti & Omnibus-Type Team under the Open Font License (OFL).

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1 Introduction

Chivo¹ is a set of eighteen fonts created by Héctor Gatti & Omnibus-Type Team and provided by Omnibus-Type under the SIL Open Font License, Version 1.1. From the readme:

“Chivo (‘goat’ in Spanish) is the first Omnibus-Type neo-grotesque typeface family. It has 9 weight variants, plus matching italics. Its solidness and balanced strokes give Chivo both elegance and practicality. Chivo Regular works perfectly in long-reading texts, while Chivo Black is ideal for headlines, banners and highlights. Developed by Héctor Gatti, this is an indispensable ally for any designer.”

The fonts were obtained from Omnibus-Type GitHub repository² (v2.002, 18 fonts, 877 glyphs each).

2 Installation

I suggest you use MikTeX or TeXlive and wait until the fonts are distributed for your TeX installation via their package manager.

3 Usage

The fonts can be used with traditional (pdf)TeX engine and newer XeTeX and LuaTeX engines which can access OTF fonts directly. They are described below. In general, this bundle tries not to be smart and loads only kvoptions.sty and fontaxes.sty or fontspec.sty, depending on the used engine. As the result, some work must be done by the user.

3.1 Engine independent options

A package Chivo.sty is provided which can be loaded in the preamble as usual:

```
\usepackage{Chivo}
```

Loading the package changes the document’s sans serif font to Chivo. The package offers some options.

`thin | extralight | light` The default font series is set with one of thin, extralight, light, regular | medium regular or medium – regular is the default. It can be changed like this:

```
\usepackage[medium]{Chivo}
```

`semibold | bold` The default bold series is set with one of semibold, bold, extrabold or bold | extrabold | black black – bold is the default.

1. Copyright © 2019, Omnibus-Type (<https://www.omnibus-type.com>).
2. <https://github.com/Omnibus-Type/Chivo>

lining | oldstyle The alignment and style for the figures of the document are set by the options lining or oldstyle and proportional or tabular. lining and proportional are the defaults. Short aliases lf, osf, prop and tab are also available. Being boolean options, following example results in proportional oldstyle figures:

```
\usepackage [lining=false, tabular=false]{Chivo}
```

familydefault The main font of a document can be switched to Chivo with package option familydefault or familydefault=true, e.g.:

```
\usepackage [familydefault]{Chivo}
```

opentype | type1 If the automatic engine detection fails, it can be specified by the user with one of opentype or type1. Note that these option do not take a boolean value true or false.

scale | scaled The size of the Chivo fonts can be adjusted with the scale or scaled option, e.g.:

```
\usepackage [scale=0.97]{Chivo}
```

3.2 (pdf)LaTeX specific notes

OT1, LY1, T1 and TS1 encodings are supported. Chivo.sty does not load the respective packages, it is up to user to load them, e.g.:

```
\usepackage{Chivo}
\usepackage [T1]{fontenc}
```

Chivo fonts provide a rich set of figures (see table 2). With traditional engines, fontaxes.sty is loaded and the command \fontversion is available to switch between lining, oldstyle, tabular and proportional styles and alignments. For other versions the macros below are provided. Note that the names of these macros used to be \textsu, \textin³, \textnu and \textde⁴. This is a backward incompatible change in v2.2 of this package:

- \textsuperior renders its argument in superior figures.
`\textsuperior{123}` produces ¹²³. The corresponding declaration is `\sufigures`.
- \textinferior renders its argument in inferior figures.
`\textinferior{123}` produces ₁₂₃. The corresponding declaration is `\infigures`.
- \textnumerator renders its argument in numerator figures.
`\textnumerator{123}` produces ¹²³/. The corresponding declaration is `\nufigures`.
- \textdenominator renders its argument in denominator figures.
`\textdenominator{123}` produces ₁₂₃/. The corresponding declaration is `\defigures`.

3. This macro is defined by the hyperref package.

4. These macros have a great potential to clash with \babeltags definitions.

Table 1. Chivo font features

| | |
|------|---------------------------------|
| aalt | Access All Alternates |
| case | Case-Sensitive Forms |
| ccmp | Glyph Composition/Decomposition |
| csp | Capital Spacing |
| dnom | Denominators |
| frac | Fractions |
| kern | Kerning |
| liga | Standard Ligatures |
| lnum | Lining Figures |
| mark | Mark Positioning |
| mkmk | Mark to Mark Positioning |
| numr | Numerators |
| onum | Oldstyle Figures |
| ordn | Ordinals |
| pnum | Proportional Figures |
| sinf | Scientific Inferiors |
| subs | Subscript |
| sup | Superscript |
| tnum | Tabular Figures |
| zero | Slashed Zero |

3.3 XeLaTeX and LuaLaTeX specific notes

These engines can access OTF fonts directly. The standard interface for this purpose is `fontspec.sty`⁵. `Chivo.sty` detects if XeLaTeX or LuaLaTeX are used and passes options given to the package to `\setsansfont` via `\defaultfeature`. Other `fontspec.sty` options can be set with `\defaultfeature+`:

```
\usepackage{fontspec}
\usepackage{Chivo}
\defaultfontfeatures+[Chivo]{
  Scale = MatchLowercase ,
  Color = blue
}
```

Table 1 contains a list of available font features.

LaTeX font selection macros like `\fontseries` work with these engines as well.

5. <https://ctan.org/pkg/fontspec>

4 OT1 encoding font table

| | '0 | '1 | '2 | '3 | '4 | '5 | '6 | '7 | |
|------|-------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|------------------|-----|
| '00x | 0 | Δ ₁ | 2 | 3 | 4 | 5 | 6 | 7 | "0x |
| '01x | 8 | 9 | Ω ₁₀ | 11 | fi ₁₂ | fl ₁₃ | 14 | 15 | |
| '02x | l ₁₆ | J ₁₇ | ` ₁₈ | ' ₁₉ | ˇ ₂₀ | ˘ ₂₁ | ˉ ₂₂ | ° ₂₃ | "1x |
| '03x | ı ₂₄ | ß ₂₅ | æ ₂₆ | œ ₂₇ | ø ₂₈ | Æ ₂₉ | Œ ₃₀ | Ø ₃₁ | |
| '04x | ı ₃₂ | ! ₃₃ | " ₃₄ | # ₃₅ | \$ ₃₆ | % ₃₇ | & ₃₈ | ' ₃₉ | "2x |
| '05x | (₄₀) |) ₄₁ | * ₄₂ | + ₄₃ | , ₄₄ | - ₄₅ | . ₄₆ | / ₄₇ | |
| '06x | 0 ₄₈ | 1 ₄₉ | 2 ₅₀ | 3 ₅₁ | 4 ₅₂ | 5 ₅₃ | 6 ₅₄ | 7 ₅₅ | "3x |
| '07x | 8 ₅₆ | 9 ₅₇ | : ₅₈ | ; ₅₉ | i ₆₀ | = ₆₁ | ¿ ₆₂ | ? ₆₃ | |
| '10x | @ ₆₄ | A ₆₅ | B ₆₆ | C ₆₇ | D ₆₈ | E ₆₉ | F ₇₀ | G ₇₁ | "4x |
| '11x | H ₇₂ | I ₇₃ | J ₇₄ | K ₇₅ | L ₇₆ | M ₇₇ | N ₇₈ | O ₇₉ | |
| '12x | P ₈₀ | Q ₈₁ | R ₈₂ | S ₈₃ | T ₈₄ | U ₈₅ | V ₈₆ | W ₈₇ | "5x |
| '13x | X ₈₈ | Y ₈₉ | Z ₉₀ | [₉₁ | " ₉₂ |] ₉₃ | ^ ₉₄ | · ₉₅ | |
| '14x | ' ₉₆ | a ₉₇ | b ₉₈ | c ₉₉ | d ₁₀₀ | e ₁₀₁ | f ₁₀₂ | g ₁₀₃ | "6x |
| '15x | h ₁₀₄ | i ₁₀₅ | j ₁₀₆ | k ₁₀₇ | l ₁₀₈ | m ₁₀₉ | n ₁₁₀ | o ₁₁₁ | |
| '16x | p ₁₁₂ | q ₁₁₃ | r ₁₁₄ | s ₁₁₅ | t ₁₁₆ | u ₁₁₇ | v ₁₁₈ | w ₁₁₉ | "7x |
| '17x | x ₁₂₀ | y ₁₂₁ | z ₁₂₂ | - ₁₂₃ | — ₁₂₄ | " ₁₂₅ | ~ ₁₂₆ | ¨ ₁₂₇ | |
| '20x | ff ₁₂₈ | ffi ₁₂₉ | ffl ₁₃₀ | 131 | 132 | 133 | 134 | 135 | "8x |
| '21x | 136 | 137 | Ł ₁₃₈ | 139 | 140 | 141 | 142 | 143 | |
| '24x | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | "Ax |
| '25x | 168 | 169 | † ₁₇₀ | 171 | 172 | 173 | 174 | 175 | |
| | "8 | "9 | "A | "B | "C | "D | "E | "F | |

5 LY1 encoding font table

| | '0 | '1 | '2 | '3 | '4 | '5 | '6 | '7 | |
|------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|
| '00x | ff ₀ | € ₁ | ffi ₂ | ffl ₃ | / ₄ | · ₅ | " ₆ | ˙ ₇ | ~0x |
| '01x | ₈ | ₉ | ₁₀ | ₁₁ | fi ₁₂ | fl ₁₃ | ₁₄ | ₁₅ | |
| '02x | l ₁₆ | j ₁₇ | ` ₁₈ | ' ₁₉ | ˇ ₂₀ | ˇ̇ ₂₁ | - ₂₂ | ° ₂₃ | ~1x |
| '03x | ˘ ₂₄ | ß ₂₅ | æ ₂₆ | œ ₂₇ | ø ₂₈ | Æ ₂₉ | Œ ₃₀ | Ø ₃₁ | |
| '04x | ₃₂ | ! ₃₃ | " ₃₄ | # ₃₅ | \$ ₃₆ | % ₃₇ | & ₃₈ | ' ₃₉ | ~2x |
| '05x | (₄₀) |) ₄₁ | * ₄₂ | + ₄₃ | , ₄₄ | - ₄₅ | . ₄₆ | / ₄₇ | |
| '06x | 0 ₄₈ | 1 ₄₉ | 2 ₅₀ | 3 ₅₁ | 4 ₅₂ | 5 ₅₃ | 6 ₅₄ | 7 ₅₅ | ~3x |
| '07x | 8 ₅₆ | 9 ₅₇ | : ₅₈ | ; ₅₉ | < ₆₀ | = ₆₁ | > ₆₂ | ? ₆₃ | |
| '10x | @ ₆₄ | A ₆₅ | B ₆₆ | C ₆₇ | D ₆₈ | E ₆₉ | F ₇₀ | G ₇₁ | ~4x |
| '11x | H ₇₂ | I ₇₃ | J ₇₄ | K ₇₅ | L ₇₆ | M ₇₇ | N ₇₈ | O ₇₉ | |
| '12x | P ₈₀ | Q ₈₁ | R ₈₂ | S ₈₃ | T ₈₄ | U ₈₅ | V ₈₆ | W ₈₇ | ~5x |
| '13x | X ₈₈ | Y ₈₉ | Z ₉₀ | [₉₁ | \ ₉₂ |] ₉₃ | ^ ₉₄ | _ ₉₅ | |
| '14x | ' ₉₆ | a ₉₇ | b ₉₈ | c ₉₉ | d ₁₀₀ | e ₁₀₁ | f ₁₀₂ | g ₁₀₃ | ~6x |
| '15x | h ₁₀₄ | i ₁₀₅ | j ₁₀₆ | k ₁₀₇ | l ₁₀₈ | m ₁₀₉ | n ₁₁₀ | o ₁₁₁ | |
| '16x | p ₁₁₂ | q ₁₁₃ | r ₁₁₄ | s ₁₁₅ | t ₁₁₆ | u ₁₁₇ | v ₁₁₈ | w ₁₁₉ | ~7x |
| '17x | x ₁₂₀ | y ₁₂₁ | z ₁₂₂ | { ₁₂₃ | ₁₂₄ | } ₁₂₅ | ~ ₁₂₆ | ¨ ₁₂₇ | |
| '20x | ł ₁₂₈ | ' ₁₂₉ | , ₁₃₀ | f ₁₃₁ | „ ₁₃₂ | … ₁₃₃ | † ₁₃₄ | ‡ ₁₃₅ | ~8x |
| '21x | ^ ₁₃₆ | % ₁₃₇ | š ₁₃₈ | ‹ ₁₃₉ | Œ ₁₄₀ | ž ₁₄₁ | ∧ ₁₄₂ | — ₁₄₃ | |
| '22x | † ₁₄₄ | ' ₁₄₅ | ' ₁₄₆ | " ₁₄₇ | " ₁₄₈ | • ₁₄₉ | — ₁₅₀ | — ₁₅₁ | ~9x |
| '23x | ~ ₁₅₂ | ™ ₁₅₃ | š ₁₅₄ | › ₁₅₅ | œ ₁₅₆ | ž ₁₅₇ | ~ ₁₅₈ | ÿ ₁₅₉ | |
| '24x | ₁₆₀ | ı ₁₆₁ | č ₁₆₂ | £ ₁₆₃ | □ ₁₆₄ | ¥ ₁₆₅ | ı ₁₆₆ | § ₁₆₇ | ~Ax |
| '25x | ¨ ₁₆₈ | © ₁₆₉ | ª ₁₇₀ | « ₁₇₁ | ¬ ₁₇₂ | - ₁₇₃ | ® ₁₇₄ | - ₁₇₅ | |
| '26x | ° ₁₇₆ | ± ₁₇₇ | ² ₁₇₈ | ³ ₁₇₉ | ' ₁₈₀ | μ ₁₈₁ | ¶ ₁₈₂ | · ₁₈₃ | ~Bx |
| '27x | ˘ ₁₈₄ | ¹ ₁₈₅ | º ₁₈₆ | » ₁₈₇ | ¼ ₁₈₈ | ½ ₁₈₉ | ¾ ₁₉₀ | ı ₁₉₁ | |
| '30x | À ₁₉₂ | Á ₁₉₃ | Â ₁₉₄ | Ã ₁₉₅ | Ä ₁₉₆ | Å ₁₉₇ | Æ ₁₉₈ | Ç ₁₉₉ | ~Cx |
| '31x | È ₂₀₀ | É ₂₀₁ | Ê ₂₀₂ | Ë ₂₀₃ | Ì ₂₀₄ | Í ₂₀₅ | Î ₂₀₆ | Ï ₂₀₇ | |
| '32x | Ð ₂₀₈ | Ñ ₂₀₉ | Ò ₂₁₀ | Ó ₂₁₁ | Ô ₂₁₂ | Õ ₂₁₃ | Ö ₂₁₄ | × ₂₁₅ | ~Dx |
| '33x | Ø ₂₁₆ | Ù ₂₁₇ | Ú ₂₁₈ | Û ₂₁₉ | Ü ₂₂₀ | Ý ₂₂₁ | Þ ₂₂₂ | ß ₂₂₃ | |
| '34x | à ₂₂₄ | á ₂₂₅ | â ₂₂₆ | ã ₂₂₇ | ä ₂₂₈ | å ₂₂₉ | æ ₂₃₀ | ç ₂₃₁ | ~Ex |
| '35x | è ₂₃₂ | é ₂₃₃ | ê ₂₃₄ | ë ₂₃₅ | ì ₂₃₆ | í ₂₃₇ | î ₂₃₈ | ï ₂₃₉ | |
| '36x | ð ₂₄₀ | ñ ₂₄₁ | ò ₂₄₂ | ó ₂₄₃ | ô ₂₄₄ | õ ₂₄₅ | ö ₂₄₆ | ÷ ₂₄₇ | ~Fx |
| '37x | ø ₂₄₈ | ù ₂₄₉ | ú ₂₅₀ | û ₂₅₁ | ü ₂₅₂ | ý ₂₅₃ | þ ₂₅₄ | ÿ ₂₅₅ | |
| | ~8 | ~9 | ~A | ~B | ~C | ~D | ~E | ~F | |

6 T1 encoding font table

| | '0 | '1 | '2 | '3 | '4 | '5 | '6 | '7 | |
|------|-------|-------|-------|--------|-------|-------|--------|-------|-----|
| '00x | ` 0 | ' 1 | ^ 2 | ~ 3 | ¨ 4 | ˘ 5 | ° 6 | ˇ 7 | ~0x |
| '01x | ˘ 8 | ˉ 9 | ˙ 10 | ˚ 11 | ˛ 12 | , 13 | ˆ 14 | ˜ 15 | |
| '02x | “ 16 | ” 17 | „ 18 | « 19 | » 20 | – 21 | — 22 | 23 | ~1x |
| '03x | ff 24 | l 25 | j 26 | ffi 27 | fi 28 | fl 29 | ffi 30 | 31 | |
| '04x | ˘ 32 | ! 33 | " 34 | # 35 | \$ 36 | % 37 | & 38 | ' 39 | ~2x |
| '05x | (40 |) 41 | * 42 | + 43 | , 44 | - 45 | . 46 | / 47 | |
| '06x | 0 48 | 1 49 | 2 50 | 3 51 | 4 52 | 5 53 | 6 54 | 7 55 | ~3x |
| '07x | 8 56 | 9 57 | : 58 | ; 59 | < 60 | = 61 | > 62 | ? 63 | |
| '10x | @ 64 | A 65 | B 66 | C 67 | D 68 | E 69 | F 70 | G 71 | ~4x |
| '11x | H 72 | I 73 | J 74 | K 75 | L 76 | M 77 | N 78 | O 79 | |
| '12x | P 80 | Q 81 | R 82 | S 83 | T 84 | U 85 | V 86 | W 87 | ~5x |
| '13x | X 88 | Y 89 | Z 90 | [91 | \ 92 |] 93 | ^ 94 | _ 95 | |
| '14x | ' 96 | a 97 | b 98 | c 99 | d 100 | e 101 | f 102 | g 103 | ~6x |
| '15x | h 104 | i 105 | j 106 | k 107 | l 108 | m 109 | n 110 | o 111 | |
| '16x | p 112 | q 113 | r 114 | s 115 | t 116 | u 117 | v 118 | w 119 | ~7x |
| '17x | x 120 | y 121 | z 122 | { 123 | 124 | } 125 | ~ 126 | - 127 | |
| '20x | Ǻ 128 | Ǻ 129 | Ć 130 | Č 131 | Ď 132 | Ě 133 | Ě 134 | Ǻ 135 | ~8x |
| '21x | Ǻ 136 | Ǻ 137 | Ǻ 138 | Ǻ 139 | Ǻ 140 | Ǻ 141 | Ǻ 142 | Ǻ 143 | |
| '22x | Ǻ 144 | Ǻ 145 | Ǻ 146 | Ǻ 147 | Ǻ 148 | Ǻ 149 | Ǻ 150 | Ǻ 151 | ~9x |
| '23x | Ǻ 152 | Ǻ 153 | Ǻ 154 | Ǻ 155 | Ǻ 156 | Ǻ 157 | Ǻ 158 | Ǻ 159 | |
| '24x | Ǻ 160 | Ǻ 161 | Ǻ 162 | Ǻ 163 | Ǻ 164 | Ǻ 165 | Ǻ 166 | Ǻ 167 | ~Ax |
| '25x | Ǻ 168 | Ǻ 169 | Ǻ 170 | Ǻ 171 | Ǻ 172 | Ǻ 173 | Ǻ 174 | Ǻ 175 | |
| '26x | Ǻ 176 | Ǻ 177 | Ǻ 178 | Ǻ 179 | Ǻ 180 | Ǻ 181 | Ǻ 182 | Ǻ 183 | ~Bx |
| '27x | Ǻ 184 | Ǻ 185 | Ǻ 186 | Ǻ 187 | Ǻ 188 | Ǻ 189 | Ǻ 190 | Ǻ 191 | |
| '30x | Ǻ 192 | Ǻ 193 | Ǻ 194 | Ǻ 195 | Ǻ 196 | Ǻ 197 | Ǻ 198 | Ǻ 199 | ~Cx |
| '31x | Ǻ 200 | Ǻ 201 | Ǻ 202 | Ǻ 203 | Ǻ 204 | Ǻ 205 | Ǻ 206 | Ǻ 207 | |
| '32x | Ǻ 208 | Ǻ 209 | Ǻ 210 | Ǻ 211 | Ǻ 212 | Ǻ 213 | Ǻ 214 | Ǻ 215 | ~Dx |
| '33x | Ǻ 216 | Ǻ 217 | Ǻ 218 | Ǻ 219 | Ǻ 220 | Ǻ 221 | Ǻ 222 | Ǻ 223 | |
| '34x | Ǻ 224 | Ǻ 225 | Ǻ 226 | Ǻ 227 | Ǻ 228 | Ǻ 229 | Ǻ 230 | Ǻ 231 | ~Ex |
| '35x | Ǻ 232 | Ǻ 233 | Ǻ 234 | Ǻ 235 | Ǻ 236 | Ǻ 237 | Ǻ 238 | Ǻ 239 | |
| '36x | Ǻ 240 | Ǻ 241 | Ǻ 242 | Ǻ 243 | Ǻ 244 | Ǻ 245 | Ǻ 246 | Ǻ 247 | ~Fx |
| '37x | Ǻ 248 | Ǻ 249 | Ǻ 250 | Ǻ 251 | Ǻ 252 | Ǻ 253 | Ǻ 254 | Ǻ 255 | |
| | ~8 | ~9 | ~A | ~B | ~C | ~D | ~E | ~F | |

7 TS1 encoding font table

| | <i>0</i> | <i>1</i> | <i>2</i> | <i>3</i> | <i>4</i> | <i>5</i> | <i>6</i> | <i>7</i> | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <i>00x</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | <i>0x</i> |
| <i>01x</i> | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| <i>02x</i> | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | <i>1x</i> |
| <i>03x</i> | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| <i>04x</i> | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | <i>2x</i> |
| <i>05x</i> | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | |
| <i>06x</i> | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | <i>3x</i> |
| <i>07x</i> | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | |
| <i>12x</i> | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | <i>5x</i> |
| <i>13x</i> | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | |
| <i>20x</i> | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | <i>8x</i> |
| <i>21x</i> | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | |
| <i>22x</i> | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | <i>9x</i> |
| <i>23x</i> | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | |
| <i>24x</i> | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | <i>Ax</i> |
| <i>25x</i> | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | |
| <i>26x</i> | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | <i>Bx</i> |
| <i>27x</i> | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | |
| <i>32x</i> | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | <i>Dx</i> |
| <i>33x</i> | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | |
| <i>36x</i> | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | <i>Fx</i> |
| <i>37x</i> | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | |
| | <i>8</i> | <i>9</i> | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> | |

8 Text samples

Regular

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Figures

Table 2. Figure styles and alignments

| | |
|-----------------------|-----------------------|
| Proportional lining | <u>0123456789</u> |
| Tabular lining | <u>0123456789</u> |
| Proportional oldstyle | <u>0123456789</u> |
| Tabular oldstyle | <u>0123456789</u> |
| Superiors | ⁰¹²³⁴⁵⁶⁷⁸⁹ |
| Inferiors | ₀₁₂₃₄₅₆₇₈₉ |
| Numerators | $\frac{0123456789}{}$ |
| Denominators | $\frac{}{0123456789}$ |

9 Implementation

Font support files are generated by `autoinst`, invoked with:

```
autoinst          \  
  --encoding=OT1,T1,LY1 \  
  --ts1           \  
  --sanserif     \  
  --nosmallcaps  \  
  --noswash      \  
  --notitling    \  
  --inferiors=subs \  
  --fractions    \  
  --noornaments  \  
  --ligatures    \  
  --verbose      \  
Chivo-*.otf
```

We don't use the `Chivo.sty` generated by `autoinst` and use our version instead.

9.1 Chivo.sty

```
1 ⟨*package⟩  
  
  Require the package iftex.sty:  
2 \RequirePackage{iftex}  
  
  First, we need a switch to know which engine is used:  
3 \newif\ifChivo@otf  
4 \iftutex                               % we are in XeTeX or LuaTeX  
5   \Chivo@otftrue  
6 \else  
7   \Chivo@otffalse  
8 \fi  
  
  Load the packages we rely on: fontspec.sty6 for LuaTeX and XeTeX, or  
fontaxes.sty7 for (pdf)LaTeX:  
9 \ifChivo@otf  
10  \RequirePackage{fontspec}  
11 \else  
12  \RequirePackage{fontaxes}  
13 \fi  
  
  We use kvoptions8 for key handling:  
14 \RequirePackage{kvoptions}  
  
Setup the keyval options:  
15 \SetupKeyvalOptions{%  
16   family = Chivo ,  
17   prefix = Chivo@  
18 }
```

6. <https://www.ctan.org/pkg/fontspec>

7. <https://www.ctan.org/pkg/fontaxes>

8. <https://www.ctan.org/pkg/kvoptions>

The basic strategy for font and figure version related keys is to declare them as boolean options.

```

19 \DeclareBoolOption{thin}
20 \DeclareBoolOption{extralight}
21 \DeclareBoolOption{light}
22 \DeclareBoolOption{regular}
23 \DeclareBoolOption{medium}
24 \DeclareBoolOption{semibold}
25 \DeclareBoolOption{bold}
26 \DeclareBoolOption{extrabold}
27 \DeclareBoolOption{black}
28 \DeclareBoolOption{lining}
29 \DeclareComplementaryOption{oldstyle}{lining}
30 \DeclareBoolOption{tabular}
31 \DeclareComplementaryOption{proportional}{tabular}

```

Alias keys are defined with `\define@key`. Given values to these keys are passed to the original keys and they are set via `\kvsetkeys`.

```

32 \define@key{Chivo}{lf}[true]{%
33   \kvsetkeys{Chivo}{lining=#1}%
34 }
35 \define@key{Chivo}{osf}[true]{%
36   \kvsetkeys{Chivo}{oldstyle=#1}%
37 }
38 \define@key{Chivo}{tab}[true]{%
39   \kvsetkeys{Chivo}{tabular=#1}%
40 }
41 \define@key{Chivo}{prop}[true]{%
42   \kvsetkeys{Chivo}{proportional=#1}%
43 }

```

scale and scaled keys are special: With (pdf)LaTeX, scale is a string option, scaled is an alias and sets `\Chivo@scale` which is defined by the scale key. With XeLaTeX and LuaLaTeX, they set the macro `\Chivo@otf@scale` which is later used in `\defaultfontfeatures`.

```

44 \ifChivo@otf
45   \newcommand*\Chivo@otf@scale{}
46   \define@key{Chivo}{scale}[1.0]{%
47     \def\Chivo@otf@scale{#1}%
48   }
49   \define@key{Chivo}{scaled}[1.0]{%
50     \def\Chivo@otf@scale{#1}%
51   }
52 \else
53   \DeclareStringOption[1.0]{scale}
54   \define@key{Chivo}{scaled}[1.0]{%
55     \renewcommand*\Chivo@scale{#1}%
56   }
57 \fi

```

familydefault switches the default font to Chivo:

```

58 \DeclareBoolOption{familydefault}

```

The next 2 are for users where the automatic engine detection might fail:

```
59 \DeclareVoidOption{opentype}{\Chivo@otftrue}
60 \DeclareVoidOption{type1}{\Chivo@otffalse}
```

Execute the default options and process the rest.

```
61 \kvsetkeys{Chivo}{regular,bold,lining,proportional}
62 \ProcessKeyvalOptions{Chivo}
```

We need some macros to store the figure alignment and style and font definitions:

```
63 \newcommand*\Chivo@figurestyle{}
64 \newcommand*\Chivo@figurealign{}
65 \newcommand*\Chivo@otf@regular{}
66 \newcommand*\Chivo@otf@italic{}
67 \newcommand*\Chivo@otf@bold{}
68 \newcommand*\Chivo@otf@bolditalic{}
```

Definition for thin, extralight, light, regular and medium keys for all engines:

```
69 \ifChivo@regular
70   \ifChivo@otf
71     \def\Chivo@otf@regular{Regular}
72     \def\Chivo@otf@italic{Italic}
73   \else
74     \DeclareFontSeriesDefault[sf]{md}{m}
75     \fi
76 \fi
77 \ifChivo@medium
78   \ifChivo@otf
79     \def\Chivo@otf@regular{Medium}
80     \def\Chivo@otf@italic{MediumItalic}
81   \else
82     \DeclareFontSeriesDefault[sf]{md}{medium}
83     \fi
84 \fi
85 \ifChivo@light
86   \ifChivo@otf
87     \def\Chivo@otf@regular{Light}
88     \def\Chivo@otf@italic{LightItalic}
89   \else
90     \DeclareFontSeriesDefault[sf]{md}{l}
91     \fi
92 \fi
93 \ifChivo@extralight
94   \ifChivo@otf
95     \def\Chivo@otf@regular{ExtraLight}
96     \def\Chivo@otf@italic{ExtraLightItalic}
97   \else
98     \DeclareFontSeriesDefault[sf]{md}{el}
99     \fi
100 \fi
101 \ifChivo@thin
102   \ifChivo@otf
103     \def\Chivo@otf@regular{Thin}
104     \def\Chivo@otf@italic{ThinItalic}
```

```

105 \else
106   \DeclareFontSeriesDefault[sf]{md}{ul}
107 \fi
108 \fi

    Definition for semibold, bold, extrabold and black keys for all engines:
109 \ifChivo@bold
110   \ifChivo@otf
111     \def\Chivo@otf@bold{Bold}
112     \def\Chivo@otf@bolditalic{BoldItalic}
113   \else
114     \DeclareFontSeriesDefault[sf]{bf}{b}
115   \fi
116 \fi
117 \ifChivo@semibold
118   \ifChivo@otf
119     \def\Chivo@otf@bold{SemiBold}
120     \def\Chivo@otf@bolditalic{SemiBoldItalic}
121   \else
122     \DeclareFontSeriesDefault[sf]{bf}{sb}
123   \fi
124 \fi
125 \ifChivo@extrabold
126   \ifChivo@otf
127     \def\Chivo@otf@bold{ExtraBold}
128     \def\Chivo@otf@bolditalic{ExtraBoldItalic}
129   \else
130     \DeclareFontSeriesDefault[sf]{bf}{eb}
131   \fi
132 \fi
133 \ifChivo@black
134   \ifChivo@otf
135     \def\Chivo@otf@bold{Black}
136     \def\Chivo@otf@bolditalic{BlackItalic}
137   \else
138     \DeclareFontSeriesDefault[sf]{bf}{ub}
139   \fi
140 \fi

    Definition for figure styles for all engines:
141 \ifChivo@lining
142   \ifChivo@otf
143     \def\Chivo@figurestyle{Lining}
144   \else
145     \def\Chivo@figurestyle{LF}
146   \fi
147 \else
148   \ifChivo@otf
149     \def\Chivo@figurestyle{OldStyle}
150   \else
151     \def\Chivo@figurestyle{OsF}
152   \fi
153 \fi

```

Definition for figure alignments for all engines:

```
154 \ifChivo@tabular
155   \ifChivo@otf
156     \def\Chivo@figurealign{Monospaced}
157   \else
158     \def\Chivo@figurealign{T}
159   \fi
160 \else
161   \ifChivo@otf
162     \def\Chivo@figurealign{Proportional}
163   \else
164     \def\Chivo@figurealign{}
165   \fi
166 \fi
```

Standard setup for fontaxes.sty. This is only relevant for (pdf)LaTeX:

```
167 \ifChivo@otf \else
168   \fa@naming@exception{figures}{{superior}{proportional}}{Sup}
169   \fa@naming@exception{figures}{{superior}{tabular}}{Sup}
170   \def\sufigures{\@nomath\sufigures
171     \fontfigurestyle{superior}\selectfont}
172   \DeclareTextFontCommand{\textsuperior}{\sufigures}
173
174   \fa@naming@exception{figures}{{inferior}{proportional}}{Inf}
175   \fa@naming@exception{figures}{{inferior}{tabular}}{Inf}
176   \def\infigures{\@nomath\infigures
177     \fontfigurestyle{inferior}\selectfont}
178   \DeclareTextFontCommand{\textinferior}{\infigures}
179
180   \fa@naming@exception{figures}{{numerators}{proportional}}{Numr}
181   \fa@naming@exception{figures}{{numerators}{tabular}}{Numr}
182   \def\nufigures{\@nomath\nufigures
183     \fontfigurestyle{numerators}\selectfont}
184   \DeclareTextFontCommand{\textnumerator}{\nufigures}
185
186   \fa@naming@exception{figures}{{denominators}{proportional}}{Dnom}
187   \fa@naming@exception{figures}{{denominators}{tabular}}{Dnom}
188   \def\defigures{\@nomath\defigures
189     \fontfigurestyle{denominators}\selectfont}
190   \DeclareTextFontCommand{\textdenominator}{\defigures}
191 \fi
```

For XeLaTeX/LuaLaTeX, we define the font features depending on the given package options:

```
192 \ifChivo@otf
193   \defaultfontfeatures [Chivo]{%
194     Extension      = .otf                ,
195     Ligatures      = {TeX,Common}        ,
196     Scale          = \Chivo@otf@scale    ,
197     UprightFont    = *-\Chivo@otf@regular ,
198     ItalicFont     = *-\Chivo@otf@italic  ,
199     BoldFont       = *-\Chivo@otf@bold    ,
200     BoldItalicFont = *-\Chivo@otf@bolditalic ,
```

```

201 FontFace      = {ul}{n}{*-Thin}          ,
202 FontFace      = {ul}{it}{*-ThinItalic}  ,
203 FontFace      = {el}{n}{*-ExtraLight}    ,
204 FontFace      = {el}{it}{*-ExtraLightItalic} ,
205 FontFace      = {l}{n}{*-Light}          ,
206 FontFace      = {l}{it}{*-LightItalic}   ,
207 FontFace      = {m}{n}{*-Regular}        ,
208 FontFace      = {m}{it}{*-Italic}        ,
209 FontFace      = {medium}{n}{*-Medium}    ,
210 FontFace      = {medium}{it}{*-MediumItalic} ,
211 FontFace      = {sb}{n}{*-SemiBold}      ,
212 FontFace      = {sb}{it}{*-SemiBoldItalic} ,
213 FontFace      = {b}{n}{*-Bold}           ,
214 FontFace      = {b}{it}{*-BoldItalic}    ,
215 FontFace      = {eb}{n}{*-ExtraBold}     ,
216 FontFace      = {eb}{it}{*-ExtraBoldItalic} ,
217 FontFace      = {ub}{n}{*-Black}        ,
218 FontFace      = {ub}{it}{*-BlackItalic}  ,
219 Numbers       = {\Chivo@figurestyle,\Chivo@figurealign}
220 }
221 \fi

```

Switch the sans serif font to Chivo. With fontspec, we delay the `\setsansfont` until `AtBeginDocument` so that user can provide additional features with `\defaultfontfeatures+`.

```

222 \ifChivo@otf
223   \AtBeginDocument{%
224     \setsansfont{Chivo}%
225   }
226 \else
227   \renewcommand*\sfdefault{%
228     Chivo-\Chivo@figurealign\Chivo@figurestyle
229   }
230 \fi

```

Switch the default font if the respective key is given:

```

231 \ifChivo@familydefault
232   \ifChivo@otf
233     \AtBeginDocument{%
234       \setmainfont{Chivo}%
235     }
236   \else
237     \renewcommand*\familydefault{\sfdefault}
238   \fi
239 \fi

```

Also set the TS1 subset supported by the fonts. LaTeX kernel sets this as well, but we put it here for the sake of completeness:

```

240 \ifChivo@otf \else
241   \DeclareEncodingSubset{TS1}{Chivo-*}{4}
242 \fi
243 \end{package}

```

Change History

| | | | |
|------|---|--|--------|
| v1.0 | | fonts, 843 glyphs each | 1 |
| | General: Initial version | Use NFSS scheme for fonts mapping | 1 1 |
| v2.0 | | | |
| | General: Add the 'scaled' key as requested by FMI | v2.1 General: Fix a bug in handling of alias keys | 1 1 |
| | Rewrite major part of the code supporting 14 fonts. Harmonize the usage of package options over different TeX engines | v2.2 General: Rename the macros \textin, \textsu, \textnu and \textde | 1 1 |
| | Update OTF fonts to version 1.007 now consisting of 14 | Update the fonts to v.2.0, adjust the package | 1 |