Using Chivo fonts with LaTeX*

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2019/07/19

Abstract

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

Contents

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*This file has version number v2.1, last revised 2019/07/19.

1   Introduction

Chivo[1] is a set of fourteen fonts created by Héctor Gatti & Omnibus-Type Team and provided by Omnibus-Type under the SIL Open Font License, Version 1.1. From the web page:

> "Chivo ('goat' in Spanish) is the first Omnibus-Type neo-grotesque typeface family. It has 7 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 Omni-Type web page[2]. (v1.007, 14 fonts, 843 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, mweights.sty, 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 | light
regular | medium

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

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

bold | extrabold | black

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

lining | oldstyle
proportional | tabular

The alignment and style for the figures of the document are set by the options `lining` or `oldstyle` and `proportional` or `tabular`. `lining` and

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1. Copyright © 2011–2019, Omnibus-Type (https://www.omnibus-type.com)
2. https://www.omnibus-type.com/fonts/chivo/

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

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 following macros are provided:

- `\textsu` renders its argument in superior figures. `\textsu{123}` produces ^{123}. The corresponding declaration is `\sufigures`.

- `\textin` renders its argument in inferior figures. `\textin{123}` produces $_{123}$. The corresponding declaration is `\infigures`.

- `\textnu` renders its argument in numerator figures. `\textnu{123}` produces ^{123}. The corresponding declaration is `\nufigures`.

- `\textde` renders its argument in denominator figures. `\textde{123}` produces $_{123}$. The corresponding declaration is `\defigures`.

3.3   XeLaTeX and LuaLaTeX specific notes

These engines can access OTF fonts directly. The standard interface for this purpose is fontspec.sty[3]. 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+`:

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3. https://ctan.org/pkg/fontspec

Table 1. Chivo font features

aalt	Access All Alternates
case	Case-Sensitive Forms
ccmp	Glyph Composition/Decomposition
cpsp	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
sups	Superscript
tnum	Tabular Figures
zero	Slashed Zero

```
\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.

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	I 16	J 17	` 18	´ 19	ˇ 20	˘ 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	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	ł 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	ı 16	ȷ 17	` 18	´ 19	ˇ 20	˘ 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	ƒ 131	„ 132	… 133	† 134	‡ 135	˝8x
´21x	ˆ 136	‰ 137	Š 138	‹ 139	Œ 140	Ž 141	Λ 142	‐ 143	
´22x	ł 144	' 145	' 146	" 147	" 148	• 149	– 150	— 151	˝9x
´23x	˜ 152	™ 153	š 154	› 155	œ 156	ž 157	~ 158	Ÿ 159	
´24x	160	¡ 161	¢ 162	£ 163	¤ 164	¥ 165	¦ 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	¿ 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	¯ 9	˙ 10	¸ 11	˛ 12	‚ 13	‹ 14	› 15	
´02x	" 16	" 17	„ 18	« 19	» 20	– 21	— 22	23	˝1x
´03x	ff 24	I 25	J 26	ffi 27	fi 28	fl 29	ffl 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	Ă 128	Ą 129	Ć 130	Č 131	Ď 132	Ě 133	Ę 134	Ğ 135	˝8x
´21x	Ĺ 136	Ľ 137	Ł 138	Ń 139	Ň 140	Ŋ 141	Ő 142	Ŕ 143	
´22x	Ř 144	Ś 145	Š 146	Ş 147	Ť 148	Ţ 149	Ű 150	Ů 151	˝9x
´23x	Ÿ 152	Ź 153	Ž 154	Ż 155	IJ 156	İ 157	đ 158	§ 159	
´24x	ă 160	ą 161	ć 162	č 163	d' 164	ě 165	ę 166	ğ 167	˝Ax
´25x	Í 168	ľ 169	ł 170	ń 171	ň 172	ŋ 173	ő 174	ŕ 175	
´26x	ř 176	ś 177	š 178	ş 179	ť 180	ţ 181	ű 182	ů 183	˝Bx
´27x	ÿ 184	ź 185	ž 186	ż 187	ij 188	¡ 189	¿ 190	£ 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	Đ 208	Ñ 209	Ò 210	Ó 211	Ô 212	Õ 213	Ö 214	Œ 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	œ 247	˝Fx
´37x	ø 248	ù 249	ú 250	û 251	ü 252	ý 253	þ 254	ß 255	
	˝8	˝9	˝A	˝B	˝C	˝D	˝E	˝F	

7   TS1 encoding font table

	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	0	1	2	3	4	5	6	7	˝0x
´01x	8	9	10	˛ 11	˷ 12	، 13	14	15	
´02x	16	17	„ 18	19	20	━ 21	━ 22	23	˝1x
´03x	24	25	26	27	28	29	30	31	
´04x	␣ 32	33	34	35	$ 36	37	38	' 39	˝2x
´05x	40	41	* 42	43	, 44	45	. 46	／ 47	
´06x	48	49	50	51	52	53	54	55	˝3x
´07x	56	57	58	59	⟨ 60	━ 61	⟩ 62	63	
´12x	80	81	82	83	84	85	86	Ω 87	˝5x
´13x	88	89	90	91	92	93	94	95	
´20x	128	129	130	131	† 132	‡ 133	‖ 134	‰ 135	˝8x
´21x	• 136	°C 137	138	139	ƒ 140	₵ 141	₩ 142	143	
´22x	144	145	£ 146	147	? 148	¿ 149	đ 150	™ 151	˝9x
´23x	152	153	154	№ 155	156	e 157	158	159	
´24x	160	161	Ċ 162	£ 163	¤ 164	¥ 165	¦ 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	€ 191	
´32x	208	209	210	211	212	213	× 214	215	˝Dx
´33x	216	217	218	219	220	221	222	223	
´36x	240	241	242	243	244	245	÷ 246	247	˝Fx
´37x	248	249	250	fl 251	l 252	fi 253	i 254	f 255	
	˝8	˝9	˝A	˝B	˝C	˝D	˝E	˝F	

8 Text samples

Regular

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Italic

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Medium

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Medium Italic

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Bold

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Figures

Table 2. Figure styles and alignments

Proportional lining	_0123456789_
Tabular lining	_0123456789_
Proportional oldstyle	_0123456789_
Tabular oldstyle	_0123456789_
Superiors	_ 0123456789 _
Inferiors	_0123456789_
Numerators	_ 0123456789 _
Denominators	_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 packages ifxetex.sty and ifluatex.sty:

```
2 \RequirePackage{ifxetex}
3 \RequirePackage{ifluatex}
```

First, we need a switch to know which engine is used:

```
 4 \newif\ifChivo@otf
 5 \ifxetex                  % we are in XeTeX
 6   \Chivo@otftrue
 7 \else
 8   \ifluatex               % we are in LuaTeX
 9     \Chivo@otftrue
10   \else
11     \Chivo@otffalse
12   \fi
13 \fi
```

Load the packages we rely on: fontspec.sty[4] for LuaTeX and XeTeX, or mweights.sty[5] and fontaxes.sty[6] for (pdf)LaTeX:

```
14 \ifChivo@otf
15   \RequirePackage{fontspec}
16 \else
17   \RequirePackage{mweights}
18   \RequirePackage{fontaxes}
19 \fi
```

We use kvoptions[7] for key handling:

---

4. https://www.ctan.org/pkg/fontspec
5. https://www.ctan.org/pkg/mweights
6. https://www.ctan.org/pkg/fontaxes
7. https://www.ctan.org/pkg/kvoptions

```
20 \RequirePackage{kvoptions}
```
Setup the keyval options:
```
21 \SetupKeyvalOptions{%
22   family = Chivo   ,
23   prefix = Chivo@
24 }
```

The basic strategy for font and figure version related keys is to declare them as boolean options.
```
25 \DeclareBoolOption{thin}
26 \DeclareBoolOption{light}
27 \DeclareBoolOption{regular}
28 \DeclareBoolOption{medium}
29 \DeclareBoolOption{bold}
30 \DeclareBoolOption{extrabold}
31 \DeclareBoolOption{black}
32 \DeclareBoolOption{lining}
33 \DeclareComplementaryOption{oldstyle}{lining}
34 \DeclareBoolOption{tabular}
35 \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.
```
36 \define@key{Chivo}{lf}[true]{%
37   \kvsetkeys{Chivo}{lining=#1}%
38 }
39 \define@key{Chivo}{osf}[true]{%
40   \kvsetkeys{Chivo}{oldstyle=#1}%
41 }
42 \define@key{Chivo}{tab}[true]{%
43   \kvsetkeys{Chivo}{tabular=#1}%
44 }
45 \define@key{Chivo}{prop}[true]{%
46   \kvsetkeys{Chivo}{proportional=#1}%
47 }
```
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.
```
48 \ifChivo@otf
49   \newcommand*\Chivo@otf@scale{}
50   \define@key{Chivo}{scale}[1.0]{%
51     \def\Chivo@otf@scale{#1}%
52   }
53   \define@key{Chivo}{scaled}[1.0]{%
54     \def\Chivo@otf@scale{#1}%
55   }
56 \else
57   \DeclareStringOption[1.0]{scale}
58   \define@key{Chivo}{scaled}[1.0]{%
59     \renewcommand*\Chivo@scale{#1}%
60   }
```

```
61 \fi
```

familydefault switches the default font to Chivo:

```
62 \DeclareBoolOption{familydefault}
```

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

```
63 \DeclareVoidOption{opentype}{\Chivo@otftrue}
64 \DeclareVoidOption{type1}{\Chivo@otffalse}
```

Execute the default options and process the rest.

```
65 \setkeys{Chivo}{regular,bold,lining,proportional}
66 \ProcessKeyvalOptions{Chivo}
```

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

```
67 \newcommand*\Chivo@figurestyle{}
68 \newcommand*\Chivo@figurealign{}
69 \newcommand*\Chivo@otf@regular{}
70 \newcommand*\Chivo@otf@italic{}
71 \newcommand*\Chivo@otf@bold{}
72 \newcommand*\Chivo@otf@bolditalic{}
```

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

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

Definition for `bold`, `extrabold` and `black` keys for all engines:

```
105 \ifChivo@bold
106   \ifChivo@otf
107     \def\Chivo@otf@bold{Bold}
108     \def\Chivo@otf@bolditalic{BoldItalic}
109   \else
110     \def\bfseries@sf{b}
111   \fi
112 \fi
113 \ifChivo@extrabold
114   \ifChivo@otf
115     \def\Chivo@otf@bold{ExtraBold}
116     \def\Chivo@otf@bolditalic{ExtraBoldItalic}
117   \else
118     \def\bfseries@sf{eb}
119   \fi
120 \fi
121 \ifChivo@black
122   \ifChivo@otf
123     \def\Chivo@otf@bold{Black}
124     \def\Chivo@otf@bolditalic{BlackItalic}
125   \else
126     \def\bfseries@sf{ub}
127   \fi
128 \fi
```

Definition for figure styles for all engines:

```
129 \ifChivo@lining
130   \ifChivo@otf
131     \def\Chivo@figurestyle{Lining}
132   \else
133     \def\Chivo@figurestyle{LF}
134   \fi
135 \else
136   \ifChivo@otf
137     \def\Chivo@figurestyle{OldStyle}
138   \else
139     \def\Chivo@figurestyle{OsF}
140   \fi
141 \fi
```

Definition for figure alignments for all engines:

```
142 \ifChivo@tabular
143   \ifChivo@otf
144     \def\Chivo@figurealign{Monospaced}
145   \else
146     \def\Chivo@figurealign{T}
147   \fi
148 \else
149   \ifChivo@otf
150     \def\Chivo@figurealign{Proportional}
151   \else
152     \def\Chivo@figurealign{}
```

```
153   \fi
154 \fi
```

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

```
155 \ifChivo@otf \else
156   \fa@naming@exception{figures}{{superior}{proportional}}{Sup}
157   \fa@naming@exception{figures}{{superior}{tabular}}{Sup}
158   \def\sufigures{\@nomath\sufigures
159     \fontfigurestyle{superior}\selectfont}
160   \DeclareTextFontCommand{\textsu}{\sufigures}
161   \let\textsuperior\textsu
162
163   \fa@naming@exception{figures}{{inferior}{proportional}}{Inf}
164   \fa@naming@exception{figures}{{inferior}{tabular}}{Inf}
165   \def\infigures{\@nomath\infigures
166     \fontfigurestyle{inferior}\selectfont}
167   \DeclareTextFontCommand{\textin}{\infigures}
168   \let\textinferior\textin
169
170   \fa@naming@exception{figures}{{numerators}{proportional}}{Numr}
171   \fa@naming@exception{figures}{{numerators}{tabular}}{Numr}
172   \def\nufigures{\@nomath\nufigures
173     \fontfigurestyle{numerators}\selectfont}
174   \DeclareTextFontCommand{\textnu}{\nufigures}
175   \let\textnumerator\textnu
176
177   \fa@naming@exception{figures}{{denominators}{proportional}}{Dnom}
178   \fa@naming@exception{figures}{{denominators}{tabular}}{Dnom}
179   \def\defigures{\@nomath\defigures
180     \fontfigurestyle{denominators}\selectfont}
181   \DeclareTextFontCommand{\textde}{\defigures}
182   \let\textdenominator\textde
183 \fi
```

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

```
184 \ifChivo@otf
185   \defaultfontfeatures[Chivo]{%
186     Extension      = .otf                        ,
187     Ligatures      = {TeX,Common}                ,
188     Scale          = \Chivo@otf@scale            ,
189     UprightFont    = *-\Chivo@otf@regular        ,
190     ItalicFont     = *-\Chivo@otf@italic         ,
191     BoldFont       = *-\Chivo@otf@bold           ,
192     BoldItalicFont = *-\Chivo@otf@bolditalic     ,
193     FontFace       = {el}{n}{*-Thin}             ,
194     FontFace       = {el}{it}{*-ThinItalic}      ,
195     FontFace       = {l}{n}{*-Light}             ,
196     FontFace       = {l}{it}{*-LightItalic}      ,
197     FontFace       = {m}{n}{*-Regular}           ,
198     FontFace       = {m}{it}{*-Italic}           ,
199     FontFace       = {sb}{n}{*-Medium}           ,
200     FontFace       = {sb}{it}{*-MediumItalic}    ,
```

```
201     FontFace          = {b}{n}{*-Bold}               ,
202     FontFace          = {b}{it}{*-BoldItalic}        ,
203     FontFace          = {eb}{n}{*-ExtraBold}         ,
204     FontFace          = {eb}{it}{*-ExtraBoldItalic} ,
205     FontFace          = {ub}{n}{*-Black}             ,
206     FontFace          = {ub}{it}{*-BlackItalic}      ,
207     Numbers           = {\Chivo@figurestyle,\Chivo@figurealign}
208   }
209 \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+`.

```
210 \ifChivo@otf
211   \AtBeginDocument{%
212     \setsansfont{Chivo}%
213   }
214 \else
215   \renewcommand*\sfdefault{%
216     Chivo-\Chivo@figurealign\Chivo@figurestyle
217   }
218 \fi
```

Switch the default font if the respective key is given:

```
219 \ifChivo@familydefault
220   \ifChivo@otf
221     \AtBeginDocument{%
222       \setmainfont{Chivo}%
223     }
224   \else
225     \renewcommand*\familydefault{\sfdefault}
226     \ifChivo@regular \else
227       \edef\seriesdefault{\mdseries@sf}
228     \fi
229     \ifChivo@bold \else
230       \edef\bfdefault{\bfseries@sf}
231     \fi
232   \fi
233 \fi
234 ⟨/package⟩
```

Change History

v2.1
    General: Fix a bug in handling of