

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 fourteen 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 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 page². (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.

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}
```

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

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

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+`:

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

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

```
\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	l ₁₆	j ₁₇	` ₁₈	' ₁₉	˘ ₂₀	˙ ₂₁	˚ ₂₂	° ₂₃	~1x
03x	ı 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	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	ˆ 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

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

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum. Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris. 1234567890

Italic

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Figures

Table 2. Figure styles and alignments	
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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 as boolean keys as well:

```
36 \DeclareBoolOption{lf}
37 \DeclareComplementaryOption{osf}{\lf}
38 \DeclareBoolOption{tab}
39 \DeclareComplementaryOption{prop}{\tab}
```

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.

```
40 \ifChivo@otf
41   \newcommand*\Chivo@otf@scale{}
42   \define@key{Chivo}{scale}[1.0]{%
43     \def\Chivo@otf@scale{#1}%
44   }
45   \define@key{Chivo}{scaled}[1.0]{%
46     \def\Chivo@otf@scale{#1}%
47   }
48 \else
49   \DeclareStringOption[1.0]{scale}
50   \define@key{Chivo}{scaled}[1.0]{%
51     \renewcommand*\Chivo@scale{#1}%
52   }
53 \fi
```

familydefault switches the default font to Chivo:

```
54 \DeclareBoolOption{familydefault}
```

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

```
55 \DeclareVoidOption{opentype}{\Chivo@otftrue}
56 \DeclareVoidOption{type1}{\Chivo@otffalse}
```

Execute the default options and process the rest.

```
57 \setkeys{Chivo}{regular,bold,lining,proportional}
```

```
58 \ProcessKeyvalOptions{Chivo}
```

Process the alias keys and set the real one with \kvsetkeys:

```
59 \ifChivo@lf
60   \kvsetkeys{Chivo}{lining=true}
61 \else
62   \kvsetkeys{Chivo}{lining=false}
63 \fi
64 \ifChivo@tab
65   \kvsetkeys{Chivo}{tabular=true}
66 \else
67   \kvsetkeys{Chivo}{tabular=false}
68 \fi
```

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

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

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

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

```

105 \fi
106 \fi

    Definition for bold, extrabold and black keys for all engines:
107 \ifChivo@bold
108 \ifChivo@otf
109 \def\Chivo@otf@bold{Bold}
110 \def\Chivo@otf@bolditalic{BoldItalic}
111 \else
112 \def\bfseries@sf{b}
113 \fi
114 \fi
115 \ifChivo@extrabold
116 \ifChivo@otf
117 \def\Chivo@otf@bold{ExtraBold}
118 \def\Chivo@otf@bolditalic{ExtraBoldItalic}
119 \else
120 \def\bfseries@sf{eb}
121 \fi
122 \fi
123 \ifChivo@black
124 \ifChivo@otf
125 \def\Chivo@otf@bold{Black}
126 \def\Chivo@otf@bolditalic{BlackItalic}
127 \else
128 \def\bfseries@sf{ub}
129 \fi
130 \fi

    Definition for figure styles for all engines:
131 \ifChivo@lining
132 \ifChivo@otf
133 \def\Chivo@figurestyle{Lining}
134 \else
135 \def\Chivo@figurestyle{LF}
136 \fi
137 \else
138 \ifChivo@otf
139 \def\Chivo@figurestyle{OldStyle}
140 \else
141 \def\Chivo@figurestyle{OsF}
142 \fi
143 \fi

    Definition for figure alignments for all engines:
144 \ifChivo@tabular
145 \ifChivo@otf
146 \def\Chivo@figurealign{Monospaced}
147 \else
148 \def\Chivo@figurealign{T}
149 \fi
150 \else
151 \ifChivo@otf
152 \def\Chivo@figurealign{Proportional}

```

```

153 \else
154   \def\Chivo@figurealign{}
155 \fi
156 \fi

```

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

```

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

```

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

```

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

```

```

201   FontFace      = {sb}{n}{*-Medium}      ,
202   FontFace      = {sb}{it}{*-MediumItalic} ,
203   FontFace      = {b}{n}{*-Bold}         ,
204   FontFace      = {b}{it}{*-BoldItalic}   ,
205   FontFace      = {eb}{n}{*-ExtraBold}    ,
206   FontFace      = {eb}{it}{*-ExtraBoldItalic} ,
207   FontFace      = {ub}{n}{*-Black}        ,
208   FontFace      = {ub}{it}{*-BlackItalic}  ,
209   Numbers       = {\Chivo@figurestyle,\Chivo@figurealign}
210 }
211 \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+`.

```

212 \ifChivo@otf
213   \AtBeginDocument{%
214     \setsansfont{Chivo}%
215   }
216 \else
217   \renewcommand*\sfdefault{%
218     Chivo-\Chivo@figurealign\Chivo@figurestyle
219   }
220 \fi

```

Switch the default font if the respective key is given:

```

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

```

Change History

v1.0		Rewrite major part of the code supporting 14 fonts.
	General: Initial version	1
v2.0		Harmonize the usage of package options over different TeX engines
	General: Add the 'scaled' key as requested by FMI	1

Update OTF fonts to version
1.007 now consisting of 14
fonts, 843 glyphs each 1

Use NFSS scheme for fonts
mapping 1