

Using Rosario fonts with LaTeX*

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Abstract

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

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1 Introduction

Rosario¹ is a set of eight fonts created by Héctor Gatti, Adobe Typekit & Omnibus-Type Team and provided by Omnibus-Type² under the SIL Open Font License, Version 1.1. From the web page:

“Rosario is a singular typeface with 4 weight variants, plus matching italics. Its grace lies in the classic proportions. Its weak endings make it subtle, yet dynamic. Named after a crowded city, it is suitable for diverse publishing contexts, such as popular magazines, poetry books, illustrated editions and academic journals. It was designed by Héctor Gatti initially for private use, later on developed by the Omnibus-Type Team, and optimized by Adobe Fonts.”

The fonts were obtained from Omni-Type web page³. (v1.004, 8 fonts, 844 glyphs each variant).

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`, `ifxetex`, `ifluatex`, and depending on engine `fontaxes` and `mweights` or `fontspec`. As the result, some work must be done by the user.

3.1 Engine independent options

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

```
\usepackage{Rosario}
```

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

`light | regular` The default sans-serif font series is set with one of `light` or `regular` – `regular` is the default. It can be changed like this:

```
\usepackage[light]{Rosario}
```

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

`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`

1. Copyright © 2012–2019, Omnibus-Type (<https://www.omnibus-type.com>)

2. Many thanks to Omnibus-Type team for their explicit permission to upload the files to CTAN.

3. <https://www.omnibus-type.com/fonts/rosario/>

are the defaults. Short aliases `1f`, `osf`, `prop` and `tab` are also available. Being boolean options, following example results in proportional oldstyle figures:

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

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

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

`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 Rosario fonts can be adjusted with the `scale` or `scaled` option, e.g.:

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

3.2 (pdf)TeX specific notes

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

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

Rosario 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 `\deffigures`.

3.3 XeTeX/LuaTeX specific notes

These engines can access OTF fonts directly. The standard interface for this purpose is `fontspec.sty`⁴. `Rosario.sty` detects if XeTeX or LuaTeX are used and passes options given to the package to `\setsansfont` via `\defaultfeature`. Other `fontspec.sty` options can be set with `\defaultfeature+`:

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

Table 1. Rosario 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{Rosario}
\defaultfontfeatures+[Rosario]{
    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.

Earlier versions of this package provided a file Rosario.fontspec. The functionality is now incorporated in the package. Hence, Rosario.fontspec is removed.

4 OT1 encoding font table

	ó	í	é	þ	á	é	ö	ñ	
‘00x	o	Δ ₁	₂	₃	₄	₅	₆	₇	"0x
‘01x	₈	₉	Ω _{₁₀}	₁₁	ſ	ſl _{₁₂}	ſl _{₁₃}	₁₄	₁₅
‘02x	l _{₁₆}	J _{₁₇}	‘ _{₁₈}	‘ _{₁₉}	‘ _{₂₀}	‘ _{₂₁}	‘ _{₂₂}	‘ _{₂₃}	"1x
‘03x	ₜ _{₂₄}	ß _{₂₅}	æ _{₂₆}	œ _{₂₇}	ø _{₂₈}	Æ _{₂₉}	Œ _{₃₀}	Ø _{₃₁}	
‘04x	₃₂	! _{₃₃}	” _{₃₄}	# _{₃₅}	₄	₅	₆	₇	"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}	j _{₆₀}	= _{₆₁}	‘ _{₆₂}	? _{₆₃}	
‘10x	@ _{₆₄}	A _{₆₅}	B _{₆₆}	C _{₆₇}	D _{₆₸}	E _{₆₹}	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}	ſſ _{₁₂₉}	ſſl _{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	ſ _{₁₇₀}	₁₇₁	₁₇₂	₁₇₃	₁₇₄	₁₇₅	
	”8	”9	”A	”B	”C	”D	”E	”F	

5 LY1 encoding font table

	ó	í	₂	₃	₄	᷑	᷒	ᷓ	
óox	ff _o	€ ₁	ffí ₂	ffl ₃	/ ₄	᷑ ₅	᷒ ₆	ᷓ ₇	"0x
ó1x	8	9	10	11	fi ₁₂	fl ₁₃	14	15	"1x
ó2x	l ₁₆	J ₁₇	‘ ₁₈	’ ₁₉	ˇ ₂₀	ˇ ₂₁	– ₂₂	° ₂₃	"2x
ó3x	„ ₂₄	ß ₂₅	æ ₂₆	œ ₂₇	ø ₂₈	Æ ₂₉	Œ ₃₀	Ø ₃₁	"3x
ó4x	! ₃₂	” ₃₃	” ₃₄	# ₃₅	\$ ₃₆	% ₃₇	& ₃₈	’ ₃₉	"4x
ó5x	(₄₀) ₄₁	* ₄₂	+ ₄₃	, ₄₄	- ₄₅	· ₄₆	/ ₄₇	"5x
ó6x	0 ₄₈	1 ₄₉	2 ₅₀	3 ₅₁	4 ₅₂	᷑ ₅₃	᷒ ₅₄	ᷓ ₅₅	"6x
ó7x	8 ₅₆	9 ₅₇	: ₅₈	; ₅₉	< ₆₀	= ₆₁	> ₆₂	? ₆₃	"7x
íox	@ ₆₄	A ₆₅	B ₆₆	C ₆₇	D ₆₈	E ₆₉	F ₇₀	G ₇₁	"Ax
í1x	H ₇₂	I ₇₃	J ₇₄	K ₇₅	L ₇₆	M ₇₇	N ₇₈	O ₇₉	"Bx
í2x	P ₈₀	Q ₈₁	R ₈₂	S ₈₃	T ₈₄	U ₈₅	V ₈₆	W ₈₇	"Cx
í3x	X ₈₈	Y ₈₉	Z ₉₀	[₉₁	\ ₉₂] ₉₃	^ ₉₄	— ₉₅	"Dx
í4x	‘ ₉₆	a ₉₇	b ₉₈	c ₉₉	d ₁₀₀	e ₁₀₁	f ₁₀₂	g ₁₀₃	"Ex
í5x	h ₁₀₄	i ₁₀₅	j ₁₀₆	k ₁₀₇	l ₁₀₈	m ₁₀₉	n ₁₁₀	o ₁₁₁	"Fx
í6x	p ₁₁₂	q ₁₁₃	r ₁₁₄	s ₁₁₅	t ₁₁₆	u ₁₁₇	v ₁₁₈	w ₁₁₉	"Ax
í7x	x ₁₂₀	y ₁₂₁	z ₁₂₂	{ ₁₂₃	₁₂₄	} ₁₂₅	~ ₁₂₆	“ ₁₂₇	"Bx
í8x	ł ₁₂₈	’ ₁₂₉	, ₁₃₀	f ₁₃₁	„ ₁₃₂	… ₁₃₃	† ₁₃₄	‡ ₁₃₅	"Cx
í9x	^ ₁₃₆	% ₀₀ ₁₃₇	ſ ₁₃₈	‘ ₁₃₉	œ ₁₄₀	ž ₁₄₁	ѧ ₁₄₂	— ₁₄₃	"Dx
í10x	ł ₁₄₄	‘ ₁₄₅	’ ₁₄₆	“ ₁₄₇	” ₁₄₈	• ₁₄₉	— ₁₅₀	— ₁₅₁	"Ex
í11x	~ ₁₅₂	™ ₁₅₃	ſ ₁₅₄	> ₁₅₅	œ ₁₅₆	ž ₁₅₇	~ ₁₅₈	ÿ ₁₅₉	"Fx
í12x	ı ₁₆₀	ı ₁₆₁	ç ₁₆₂	£ ₁₆₃	¤ ₁₆₄	¥ ₁₆₅	ı ₁₆₆	§ ₁₆₇	"Ax
í13x	“ ₁₆₈	© ₁₆₉	¤ ₁₇₀	« ₁₇₁	¬ ₁₇₂	¬ ₁₇₃	® ₁₇₄	— ₁₇₅	"Bx
í14x	º ₁₇₆	± ₁₇₇	² ₁₇₈	³ ₁₇₉	’ ₁₈₀	µ ₁₈₁	¶ ₁₈₂	• ₁₈₃	"Cx
í15x	„ ₁₈₄	ı ₁₈₅	º ₁₈₆	» ₁₈₇	1/4 ₁₈₈	1/2 ₁₈₉	3/4 ₁₉₀	ξ ₁₉₁	"Dx
í16x	À ₁₉₂	Á ₁₉₃	Â ₁₉₄	Ä ₁₉₅	Å ₁₉₆	Æ ₁₉₈	Ç ₁₉₉	” ₂₀₀	"Ex
í17x	È ₂₀₁	É ₂₀₂	Ê ₂₀₃	Ì ₂₀₄	Í ₂₀₅	Î ₂₀₆	Ï ₂₀₇	” ₂₀₈	"Fx
í18x	Ð ₂₀₈	Ñ ₂₀₉	Ò ₂₁₀	Ó ₂₁₁	Ô ₂₁₂	Õ ₂₁₃	Ö ₂₁₄	× ₂₁₅	"Ax
í19x	Ø ₂₁₆	Ù ₂₁₇	Ú ₂₁₈	Û ₂₁₉	Ü ₂₂₀	Ý ₂₂₁	þ ₂₂₂	ß ₂₂₃	"Bx
í20x	à ₂₂₄	á ₂₂₅	â ₂₂₆	ã ₂₂₇	ä ₂₂₈	å ₂₂₉	æ ₂₃₀	ç ₂₃₁	"Cx
í21x	è ₂₃₂	é ₂₃₃	ê ₂₃₄	ë ₂₃₅	ì ₂₃₆	í ₂₃₇	î ₂₃₈	ï ₂₃₉	"Dx
í22x	ð ₂₄₀	ñ ₂₄₁	ò ₂₄₂	ó ₂₄₃	ô ₂₄₄	õ ₂₄₅	ö ₂₄₆	÷ ₂₄₇	"Ex
í23x	ø ₂₄₈	ù ₂₄₉	ú ₂₅₀	û ₂₅₁	ü ₂₅₂	ý ₂₅₃	þ ₂₅₄	ÿ ₂₅₅	"Fx
	”8	”9	”A	”B	”C	”D	”E	”F	

6 T1 encoding font table

7 TS1 encoding font table

	o	ı	2	3	4	5	6	7	
óox	o	ı	2	3	4	5	6	7	"0x
óix	8	9	10	11	12	13	14	15	"1x
ó2x	16	17	18	19	20	21	22	23	"2x
ó3x	24	25	26	27	28	29	30	31	"3x
ó4x	32	33	34	35	36	37	38	39	"4x
ó5x	40	41	* 42	43	, 44	45	• 46	/ 47	"5x
ó6x	48	49	50	51	52	53	54	55	"6x
ó7x	56	57	58	59	〈 60	— 61	〉 62	63	"7x
í2x	80	81	82	83	84	85	86	Ω 87	"8x
í3x	88	89	90	91	92	93	94	95	"9x
íox	128	129	130	131	† 132	‡ 133	134	% 135	"Ax
í1x	• 136	°C 137	138	139	f 140	∅ 141	₩ 142	143	"Bx
í2x	144	145	£ 146	147	? 148	đ 149	đ 150	™ 151	"Cx
í3x	152	153	154	No 155	156	E 157	158	159	"Fx
í4x	160	161	ç 162	f 163	¤ 164	¥ 165	l 166	§ 167	
í5x	168	© 169	ä 170	171	¬ 172	173	® 174	175	
í6x	o 176	± 177	2 178	3 179	180	μ 181	¶ 182	• 183	
í7x	184	1 185	o 186	√ 187	1/4 188	1/2 189	3/4 190	€ 191	
í2x	208	209	210	211	212	213	× 214	215	
í3x	216	217	218	219	220	221	222	223	
í6x	240	241	242	243	244	245	÷ 246	247	
í7x	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

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

Bold

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,

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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`. As a random note, `autoinst` is invoked with:

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

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

9.1 Rosario.sty

```
1 (*package)
2 Require the packages ifxetex.sty and ifluatex.sty:
3 \RequirePackage{ifxetex}
3 \RequirePackage{ifluatex}
```

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

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

Load the packages we rely on: `fontspec.sty`⁵ for LuaTeX and XeTeX, or `mweights.sty`⁶ and `fontaxes.sty`⁷ for (pdf)LaTeX:

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

We use `kvoptions`⁸ for key handling:

5. <https://www.ctan.org/pkg/fontspec>
6. <https://www.ctan.org/pkg/mweights>
7. <https://www.ctan.org/pkg/fontaxes>
8. <https://www.ctan.org/pkg/kvoptions>

```
20 \RequirePackage{kvoptions}
```

Setup the keyval options:

```
21 \SetupKeyvalOptions{%
22   family = Rosario ,
23   prefix = Rosario@
24 }
```

The basic strategy for font and figure related keys is to declare them as complementary ones, i.e. regular vs. light, bold vs. semibold, lining vs. oldstyle and proportional vs. tabular:

```
25 \DeclareBoolOption{regular}
26 \DeclareComplementaryOption{light}{regular}
27 \DeclareBoolOption{bold}
28 \DeclareComplementaryOption{semibold}{bold}
29 \DeclareBoolOption{lining}
30 \DeclareComplementaryOption{oldstyle}{lining}
31 \DeclareBoolOption{tabular}
32 \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.

```
33 \define@key{Rosario}{lf}[true]{%
34   \kvsetkeys{Rosario}{lining=#1}%
35 }
36 \define@key{Rosario}{osf}[true]{%
37   \kvsetkeys{Rosario}{oldstyle=#1}%
38 }
39 \define@key{Rosario}{tab}[true]{%
40   \kvsetkeys{Rosario}{tabular=#1}%
41 }
42 \define@key{Rosario}{prop}[true]{%
43   \kvsetkeys{Rosario}{proportional=#1}%
44 }
```

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

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

familydefault switches the default font to Rosario:

```
59 \DeclareBoolOption{familydefault}
```

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

```
60 \DeclareVoidOption{opentype}{\Rosario@otftrue}
61 \DeclareVoidOption{type1}{\Rosario@otffalse}
```

Execute the default options and process the rest.

```
62 \setkeys{Rosario}{regular,bold,lining,proportional}
63 \ProcessKeyvalOptions{Rosario}
```

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

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

Definition for light and regular keys for all engines:

```
70 \ifRosario@regular
71   \ifRosario@otf
72     \def\Rosario@otf@regular{Regular}
73     \def\Rosario@otf@italic{Italic}
74   \else
75     \def\mdseries@sf{m}
76   \fi
77 \else
78   \ifRosario@otf
79     \def\Rosario@otf@regular{Light}
80     \def\Rosario@otf@italic{LightItalic}
81   \else
82     \def\mdseries@sf{l}
83   \fi
84 \fi
```

Definition for semibold and bold keys for all engines:

```
85 \ifRosario@bold
86   \ifRosario@otf
87     \def\Rosario@otf@bold{Bold}
88     \def\Rosario@otf@bolditalic{BoldItalic}
89   \else
90     \def\bfsseries@sf{b}
91   \fi
92 \else
93   \ifRosario@otf
94     \def\Rosario@otf@bold{SemiBold}
95     \def\Rosario@otf@bolditalic{SemiBoldItalic}
96   \else
97     \def\bfsseries@sf{sb}
98   \fi
99 \fi
```

Definition for figure styles for all engines:

```
100 \ifRosario@lining
101   \ifRosario@otf
102     \def\Rosario@figurestyle{Lining}
103   \else
```

```

104     \def\Rosario@figurestyle{LF}
105   \fi
106 \else
107   \ifRosario@otf
108     \def\Rosario@figurestyle{OldStyle}
109   \else
110     \def\Rosario@figurestyle{OsF}
111   \fi
112 \fi

      Definition for figure alignments for all engines:
113 \ifRosario@tabular
114   \ifRosario@otf
115     \def\Rosario@figurealign{Monospaced}
116   \else
117     \def\Rosario@figurealign{T}
118   \fi
119 \else
120   \ifRosario@otf
121     \def\Rosario@figurealign{Proportional}
122   \else
123     \def\Rosario@figurealign{}
124   \fi
125 \fi

      Standard setup for fontaxes.sty. This is only relevant for (pdf)LaTeX:
126 \ifRosario@otf \else
127   \fa@naming@exception{figures}{{superior}{proportional}}{Sup}
128   \fa@naming@exception{figures}{{superior}{tabular}}{Sup}
129   \def\sufigures{\@nomath\sufigures
130     \fontfigurestyle{superior}\selectfont}
131   \DeclareTextFontCommand{\textsu}{\sufigures}
132   \let\textsuperior\textsu
133
134   \fa@naming@exception{figures}{{inferior}{proportional}}{Inf}
135   \fa@naming@exception{figures}{{inferior}{tabular}}{Inf}
136   \def\infigures{\@nomath\infigures
137     \fontfigurestyle{inferior}\selectfont}
138   \DeclareTextFontCommand{\textin}{\infigures}
139   \let\textinferior\textin
140
141   \fa@naming@exception{figures}{{numerators}{proportional}}{Numr}
142   \fa@naming@exception{figures}{{numerators}{tabular}}{Numr}
143   \def\nufigures{\@nomath\nufigures
144     \fontfigurestyle{numerators}\selectfont}
145   \DeclareTextFontCommand{\textnu}{\nufigures}
146   \let\textnumerator\textnu
147
148   \fa@naming@exception{figures}{{denominators}{proportional}}{Dnom}
149   \fa@naming@exception{figures}{{denominators}{tabular}}{Dnom}
150   \def\deffigures{\@nomath\deffigures
151     \fontfigurestyle{denominators}\selectfont}
152   \DeclareTextFontCommand{\textde}{\deffigures}
153   \let\textdenominator\textde

```

```

154 \fi
      For XeLaTeX/LuaLaTeX, we define the font features depending on the given
      package options:
155 \ifRosario@otf
156   \defaultfontfeatures[Rosario]{%
157     Extension      = .otf
158     Ligatures      = {TeX,Common}
159     Scale          = \Rosario@otf@scale
160     UprightFont    = *-\Rosario@otf@regular
161     ItalicFont     = *-\Rosario@otf@italic
162     BoldFont       = *-\Rosario@otf@bold
163     BoldItalicFont = *-\Rosario@otf@bolditalic
164     FontFace       = {l}{n}{*-Light}
165     FontFace       = {l}{it}{*-LightItalic}
166     FontFace       = {m}{n}{*-Regular}
167     FontFace       = {m}{it}{*-Italic}
168     FontFace       = {b}{n}{*-Bold}
169     FontFace       = {b}{it}{*-BoldItalic}
170     FontFace       = {sb}{n}{*-SemiBold}
171     FontFace       = {sb}{it}{*-SemiBoldItalic}
172     Numbers        = {\Rosario@figurestyle,\Rosario@figurealign}
173   }
174 \fi

```

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

```

175 \ifRosario@otf
176   \AtBeginDocument{%
177     \setsansfont{Rosario}%
178   }
179 \else
180   \renewcommand*\sfdefault{%
181     Rosario-\Rosario@figurealign\Rosario@figurestyle
182   }
183 \fi

```

Switch the default font if the respective key is given:

```

184 \ifRosario@familydefault
185   \ifRosario@otf
186     \AtBeginDocument{%
187       \setmainfont{Rosario}%
188     }
189 \else
190   \renewcommand*\familydefault{\sfdefault}
191   \ifRosario@regular \else
192     \edef\seriesdefault{\mdseries@sf}
193   \fi
194   \ifRosario@bold \else
195     \edef\bfdefault{\bfseries@sf}
196   \fi
197 \fi
198 \fi
199 </ package>

```

Change History

v1.0	the usage of package options over different TeX engines
General: Initial version	1
v2.0	Update OTF fonts to version 1.004 now consisting of 8 fonts, 844 glyphs each
General: Add the ‘scaled’ key as requested by FMi	1
Remove ‘Rosario.fontspec’ from the bundle since the functionality is now provided by the package itself	1
Rewrite major part of the code supporting 8 fonts. Harmonize	v2.1
General: Fix a bug in handling of alias keys	1