

Using Rosario fonts with LaTeX*

Arash Esbati

2019/07/07

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).

Contents

1	Introduction	2
2	Installation	2
3	Usage	2
3.1	Engine independent options	2
3.2	(pdf)LaTeX specific notes	3
3.3	XeLaTeX/LuaLaTeX specific notes	3
4	OT1 encoding font table	5
5	LY1 encoding font table	6
6	T1 encoding font table	7
7	TS1 encoding font table	8
8	Text samples	9
9	Implementation	13
9.1	Rosario.sty	13

*This file has version number v2.0, last revised 2019/07/07.

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
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 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 `lf`, `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)LaTeX 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 `\defigures`.

3.3 XeLaTeX/LuaLaTeX specific notes

These engines can access OTF fonts directly. The standard interface for this purpose is `fontspec.sty`⁴. `Rosario.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+`:

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

Table 1. Rosario 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{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	¿	ÿ	4	5	6	7	
00x	o	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	" 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

	ó	í	¿	ÿ	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	˘ 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	f ₁₃₁	„ ₁₃₂	... ₁₃₃	† ₁₃₄	‡ ₁₃₅	"8x
21x	^ ₁₃₆	‰ ₁₃₇	Š ₁₃₈	ˆ ₁₃₉	Œ ₁₄₀	Ž ₁₄₁	^ 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	ı ₁₆₁	ç 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	1/4 ₁₈₈	1/2 ₁₈₉	3/4 ₁₉₀	¿ 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

	ó	í	¿	ÿ	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	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	Ã ₁₂₈	À ₁₂₉	Ć ₁₃₀	Č ₁₃₁	Ď ₁₃₂	Ě ₁₃₃	Ě ₁₃₄	Ĝ ₁₃₅	8x
21x	Ĺ ₁₃₆	Ĺ ₁₃₇	Ł ₁₃₈	Ń ₁₃₉	Ň ₁₄₀	Ŋ ₁₄₁	Ŏ ₁₄₂	Ŕ ₁₄₃	
22x	Ř ₁₄₄	Ś ₁₄₅	Ŝ 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	š ₁₅₉	
24x	ă ₁₆₀	ą ₁₆₁	ć ₁₆₂	č ₁₆₃	ď ₁₆₄	ě ₁₆₅	ę ₁₆₆	ğ ₁₆₇	Ax
25x	í ₁₆₈	ı ₁₆₉	ł ₁₇₀	ń ₁₇₁	ň ₁₇₂	ŋ ₁₇₃	ő ₁₇₄	í ₁₇₅	
26x	ř ₁₇₆	ś ₁₇₇	ŝ ₁₇₈	ş ₁₇₉	ť ₁₈₀	ţ ₁₈₁	ű ₁₈₂	ű ₁₈₃	Bx
27x	ÿ ₁₈₄	ž ₁₈₅	ž ₁₈₆	ž ₁₈₇	ij ₁₈₈	i 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	Š 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

	ó	í	ê	ë	ü	ý	ö	÷	
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	87	5x
13x	88	89	90	91	92	93	94	95	
20x	128	129	130	131	132	133	134	135	8x
21x	136	137	138	139	140	141	142	143	
22x	144	145	146	147	148	149	150	151	9x
23x	152	153	154	155	156	157	158	159	
24x	160	161	162	163	164	165	166	167	Ax
25x	168	169	170	171	172	173	174	175	
26x	176	177	178	179	180	181	182	183	Bx
27x	184	185	186	187	188	189	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	251	252	253	254	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,

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 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

Semi 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, 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

Semi Bold 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

Light

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

Light 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

Figures

Table 2. Figure styles and alignments

Proportional lining	_0123456789_
Tabular lining	_0123456789_
Proportional oldstyle	_o123456789_
Tabular oldstyle	_o123456789_
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>
   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\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 as boolean keys as well:

```
33 \DeclareBoolOption{lf}
34 \DeclareComplementaryOption{osf}{lf}
35 \DeclareBoolOption{tab}
36 \DeclareComplementaryOption{prop}{tab}
```

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.

```
37 \ifRosario@otf
38   \newcommand*\Rosario@otf@scale{}
39   \define@key{Rosario}{scale}[1.0]{%
40     \renewcommand*\Rosario@otf@scale{#1}%
41   }
42   \define@key{Rosario}{scaled}[1.0]{%
43     \renewcommand*\Rosario@otf@scale{#1}%
44   }
45 \else
46   \DeclareStringOption[1.0]{scale}
47   \define@key{Rosario}{scaled}[1.0]{%
48     \renewcommand*\Rosario@scale{#1}%
49   }
50 \fi
```

familydefault switches the default font to Rosario:

```
51 \DeclareBoolOption{familydefault}
```

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

```
52 \DeclareVoidOption{opentype}{\Rosario@otftrue}
53 \DeclareVoidOption{type1}{\Rosario@otffalse}
```

Execute the default options and process the rest.

```
54 \setkeys{Rosario}{regular,bold,lining,proportional}
55 \ProcessKeyvalOptions{Rosario}
```

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

```
56 \ifRosario@lf
```

```

57 \kvsetkeys{Rosario}{lining=true}
58 \else
59 \kvsetkeys{Rosario}{lining=false}
60 \fi
61 \ifRosario@tab
62 \kvsetkeys{Rosario}{tabular=true}
63 \else
64 \kvsetkeys{Rosario}{tabular=false}
65 \fi

```

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

```

66 \newcommand*\Rosario@figurestyle{}
67 \newcommand*\Rosario@figurealign{}
68 \newcommand*\Rosario@otf@regular{}
69 \newcommand*\Rosario@otf@italic{}
70 \newcommand*\Rosario@otf@bold{}
71 \newcommand*\Rosario@otf@bolditalic{}

```

Definition for light and regular keys for all engines:

```

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

```

Definition for semibold and bold keys for all engines:

```

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

```

Definition for figure styles for all engines:

```

102 \ifRosario@lining
103 \ifRosario@otf

```

```

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

```

Definition for figure alignments for all engines:

```

115 \ifRosario@tabular
116 \ifRosario@otf
117 \def\Rosario@figurealign{Monospaced}
118 \else
119 \def\Rosario@figurealign{T}
120 \fi
121 \else
122 \ifRosario@otf
123 \def\Rosario@figurealign{Proportional}
124 \else
125 \def\Rosario@figurealign{}
126 \fi
127 \fi

```

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

```

128 \ifRosario@otf \else
129 \fa@naming@exception{figures}{{superior}{proportional}}{Sup}
130 \fa@naming@exception{figures}{{superior}{tabular}}{Sup}
131 \def\sufigures{\@nomath\sufigures
132 \fontfigurestyle{superior}\selectfont}
133 \DeclareTextFontCommand{\textsu}{\sufigures}
134 \let\textsuperior\textsu
135
136 \fa@naming@exception{figures}{{inferior}{proportional}}{Inf}
137 \fa@naming@exception{figures}{{inferior}{tabular}}{Inf}
138 \def\infigures{\@nomath\infigures
139 \fontfigurestyle{inferior}\selectfont}
140 \DeclareTextFontCommand{\textin}{\infigures}
141 \let\textinferior\textin
142
143 \fa@naming@exception{figures}{{numerators}{proportional}}{Numr}
144 \fa@naming@exception{figures}{{numerators}{tabular}}{Numr}
145 \def\nufigures{\@nomath\nufigures
146 \fontfigurestyle{numerators}\selectfont}
147 \DeclareTextFontCommand{\textnu}{\nufigures}
148 \let\textnumerator\textnu
149
150 \fa@naming@exception{figures}{{denominators}{proportional}}{Dnom}
151 \fa@naming@exception{figures}{{denominators}{tabular}}{Dnom}
152 \def\defigures{\@nomath\defigures
153 \fontfigurestyle{denominators}\selectfont}

```



```

154 \DeclareTextFontCommand{\textde}{\defigures}
155 \let\textdenominator\textde
156 \fi

```

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

```

157 \ifRosario@otf
158 \defaultfontfeatures[Rosario]{%
159   Extension      = .otf ,
160   Ligatures      = {TeX,Common} ,
161   Scale          = \Rosario@otf@scale ,
162   UprightFont    = *-\Rosario@otf@regular ,
163   ItalicFont     = *-\Rosario@otf@italic ,
164   BoldFont       = *-\Rosario@otf@bold ,
165   BoldItalicFont = *-\Rosario@otf@bolditalic ,
166   FontFace       = {l}{n}{*-Light} ,
167   FontFace       = {l}{it}{*-LightItalic} ,
168   FontFace       = {m}{n}{*-Regular} ,
169   FontFace       = {m}{it}{*-Italic} ,
170   FontFace       = {b}{n}{*-Bold} ,
171   FontFace       = {b}{it}{*-BoldItalic} ,
172   FontFace       = {sb}{n}{*-SemiBold} ,
173   FontFace       = {sb}{it}{*-SemiBoldItalic} ,
174   Numbers        = {\Rosario@figurestyle,\Rosario@figurealign}
175 }
176 \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+`.

```

177 \ifRosario@otf
178 \AtBeginDocument{%
179   \setsansfont{Rosario}%
180 }
181 \else
182 \renewcommand*\sfdefault{%
183   Rosario-\Rosario@figurealign\Rosario@figurestyle
184 }
185 \fi

```

Switch the default font if the respective key is given:

```

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

```

200 \fi
201 \end{package}

Change History

v1.0	
General: Initial version	1
v2.0	
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 the usage of package options over different TeX engines
	1
	Update OTF fonts to version 1.004 now consisting of 8 fonts, 844 glyphs each
	1
	Use NFSS scheme for fonts mapping
	1