

# Using Rosario fonts with LaTeX\*

Arash Esbati

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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

Rosario<sup>1</sup> is a set of eight fonts created by Héctor Gatti, Adobe Typekit & Omnibus-Type Team and provided by Omnibus-Type<sup>2</sup> 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 page<sup>3</sup>. (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 <sup>123</sup>. The corresponding declaration is `\sufigures`.
- `\textin` renders its argument in inferior figures. `\textin{123}` produces <sub>123</sub>. The corresponding declaration is `\infigures`.
- `\textnu` renders its argument in numerator figures. `\textnu{123}` produces <sup>123</sup>/. The corresponding declaration is `\nufigures`.
- `\textde` renders its argument in denominator figures. `\textde{123}` produces <sub>123</sub>/. 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<sup>4</sup>. 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+`:

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

**Table 1.** Rosario font features

---

<code>aalt</code>	Access All Alternates
<code>case</code>	Case-Sensitive Forms
<code>ccmp</code>	Glyph Composition/Decomposition
<code>csp</code>	Capital Spacing
<code>dnom</code>	Denominators
<code>frac</code>	Fractions
<code>kern</code>	Kerning
<code>liga</code>	Standard Ligatures
<code>lnum</code>	Lining Figures
<code>mark</code>	Mark Positioning
<code>mkmk</code>	Mark to Mark Positioning
<code>numr</code>	Numerators
<code>onum</code>	Oldstyle Figures
<code>ordn</code>	Ordinals
<code>pnum</code>	Proportional Figures
<code>sinf</code>	Scientific Inferiors
<code>subs</code>	Subscript
<code>sup</code>	Superscript
<code>tnum</code>	Tabular Figures
<code>zero</code>	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 <sub>1</sub>	2	3	4	5	6	7	"0x
01x	8	9	Ω <sub>10</sub>	11	fi <sub>12</sub>	fl <sub>13</sub>	14	15	
02x	l <sub>16</sub>	J <sub>17</sub>	` <sub>18</sub>	´ <sub>19</sub>	ˇ <sub>20</sub>	˘ <sub>21</sub>	˙ <sub>22</sub>	˚ <sub>23</sub>	"1x
03x	ı <sub>24</sub>	ß <sub>25</sub>	æ <sub>26</sub>	œ <sub>27</sub>	ø <sub>28</sub>	Æ <sub>29</sub>	Œ <sub>30</sub>	Ø <sub>31</sub>	
04x	32	! <sub>33</sub>	" <sub>34</sub>	# <sub>35</sub>	\$ <sub>36</sub>	% <sub>37</sub>	& <sub>38</sub>	' <sub>39</sub>	"2x
05x	( <sub>40</sub> )	) <sub>41</sub>	* <sub>42</sub>	+ <sub>43</sub>	, <sub>44</sub>	- <sub>45</sub>	· <sub>46</sub>	/ <sub>47</sub>	
06x	0 <sub>48</sub>	1 <sub>49</sub>	2 <sub>50</sub>	3 <sub>51</sub>	4 <sub>52</sub>	5 <sub>53</sub>	6 <sub>54</sub>	7 <sub>55</sub>	"3x
07x	8 <sub>56</sub>	9 <sub>57</sub>	: <sub>58</sub>	; <sub>59</sub>	i <sub>60</sub>	= <sub>61</sub>	¿ <sub>62</sub>	? <sub>63</sub>	
10x	@ <sub>64</sub>	A <sub>65</sub>	B <sub>66</sub>	C <sub>67</sub>	D <sub>68</sub>	E <sub>69</sub>	F <sub>70</sub>	G <sub>71</sub>	"4x
11x	H <sub>72</sub>	I <sub>73</sub>	J <sub>74</sub>	K <sub>75</sub>	L <sub>76</sub>	M <sub>77</sub>	N <sub>78</sub>	O <sub>79</sub>	
12x	P <sub>80</sub>	Q <sub>81</sub>	R <sub>82</sub>	S <sub>83</sub>	T <sub>84</sub>	U <sub>85</sub>	V <sub>86</sub>	W <sub>87</sub>	"5x
13x	X <sub>88</sub>	Y <sub>89</sub>	Z <sub>90</sub>	[ <sub>91</sub>	" <sub>92</sub>	] <sub>93</sub>	^ <sub>94</sub>	· <sub>95</sub>	
14x	' <sub>96</sub>	a <sub>97</sub>	b <sub>98</sub>	c <sub>99</sub>	d <sub>100</sub>	e <sub>101</sub>	f <sub>102</sub>	g <sub>103</sub>	"6x
15x	h <sub>104</sub>	i <sub>105</sub>	j <sub>106</sub>	k <sub>107</sub>	l <sub>108</sub>	m <sub>109</sub>	n <sub>110</sub>	o <sub>111</sub>	
16x	p <sub>112</sub>	q <sub>113</sub>	r <sub>114</sub>	s <sub>115</sub>	t <sub>116</sub>	u <sub>117</sub>	v <sub>118</sub>	w <sub>119</sub>	"7x
17x	x <sub>120</sub>	y <sub>121</sub>	z <sub>122</sub>	- <sub>123</sub>	— <sub>124</sub>	" <sub>125</sub>	~ <sub>126</sub>	¨ <sub>127</sub>	
20x	ff <sub>128</sub>	ffi <sub>129</sub>	ffl <sub>130</sub>	131	132	133	134	135	"8x
21x	136	137	Ł <sub>138</sub>	139	140	141	142	143	
24x	160	161	162	163	164	165	166	167	"Ax
25x	168	169	† <sub>170</sub>	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 <sub>0</sub>	€ <sub>1</sub>	ffi <sub>2</sub>	ffl <sub>3</sub>	/ <sub>4</sub>	· <sub>5</sub>	ˆ <sub>6</sub>	˘ <sub>7</sub>	ˆ0x
01x	8	9	10	11	fi <sub>12</sub>	fl <sub>13</sub>	14	15	
02x	l <sub>16</sub>	J <sub>17</sub>	` <sub>18</sub>	´ <sub>19</sub>	˘ <sub>20</sub>	˘ <sub>21</sub>	˘ <sub>22</sub>	˘ <sub>23</sub>	ˆ1x
03x	˘ <sub>24</sub>	ß <sub>25</sub>	æ <sub>26</sub>	œ <sub>27</sub>	ø <sub>28</sub>	Æ <sub>29</sub>	Œ <sub>30</sub>	Ø <sub>31</sub>	
04x	32	! <sub>33</sub>	" <sub>34</sub>	# <sub>35</sub>	\$ <sub>36</sub>	% <sub>37</sub>	& <sub>38</sub>	' <sub>39</sub>	ˆ2x
05x	( <sub>40</sub> )	) <sub>41</sub>	* <sub>42</sub>	+ <sub>43</sub>	, <sub>44</sub>	- <sub>45</sub>	· <sub>46</sub>	/ <sub>47</sub>	
06x	0 <sub>48</sub>	1 <sub>49</sub>	2 <sub>50</sub>	3 <sub>51</sub>	4 <sub>52</sub>	5 <sub>53</sub>	6 <sub>54</sub>	7 <sub>55</sub>	ˆ3x
07x	8 <sub>56</sub>	9 <sub>57</sub>	: <sub>58</sub>	; <sub>59</sub>	< <sub>60</sub>	= <sub>61</sub>	> <sub>62</sub>	? <sub>63</sub>	
10x	@ <sub>64</sub>	A <sub>65</sub>	B <sub>66</sub>	C <sub>67</sub>	D <sub>68</sub>	E <sub>69</sub>	F <sub>70</sub>	G <sub>71</sub>	ˆ4x
11x	H <sub>72</sub>	I <sub>73</sub>	J <sub>74</sub>	K <sub>75</sub>	L <sub>76</sub>	M <sub>77</sub>	N <sub>78</sub>	O <sub>79</sub>	
12x	P <sub>80</sub>	Q <sub>81</sub>	R <sub>82</sub>	S <sub>83</sub>	T <sub>84</sub>	U <sub>85</sub>	V <sub>86</sub>	W <sub>87</sub>	ˆ5x
13x	X <sub>88</sub>	Y <sub>89</sub>	Z <sub>90</sub>	[ <sub>91</sub>	\ <sub>92</sub>	] <sub>93</sub>	^ <sub>94</sub>	_ <sub>95</sub>	
14x	' <sub>96</sub>	a <sub>97</sub>	b <sub>98</sub>	c <sub>99</sub>	d <sub>100</sub>	e <sub>101</sub>	f <sub>102</sub>	g <sub>103</sub>	ˆ6x
15x	h <sub>104</sub>	i <sub>105</sub>	j <sub>106</sub>	k <sub>107</sub>	l <sub>108</sub>	m <sub>109</sub>	n <sub>110</sub>	o <sub>111</sub>	
16x	p <sub>112</sub>	q <sub>113</sub>	r <sub>114</sub>	s <sub>115</sub>	t <sub>116</sub>	u <sub>117</sub>	v <sub>118</sub>	w <sub>119</sub>	ˆ7x
17x	x <sub>120</sub>	y <sub>121</sub>	z <sub>122</sub>	{ <sub>123</sub>	<sub>124</sub>	} <sub>125</sub>	~ <sub>126</sub>	¨ <sub>127</sub>	
20x	Ł <sub>128</sub>	' <sub>129</sub>	, <sub>130</sub>	f <sub>131</sub>	„ <sub>132</sub>	… <sub>133</sub>	† <sub>134</sub>	‡ <sub>135</sub>	ˆ8x
21x	^ <sub>136</sub>	‰ <sub>137</sub>	Š <sub>138</sub>	ˆ <sub>139</sub>	Œ <sub>140</sub>	Ž <sub>141</sub>	^ <sub>142</sub>	- <sub>143</sub>	
22x	ł <sub>144</sub>	' <sub>145</sub>	' <sub>146</sub>	“ <sub>147</sub>	” <sub>148</sub>	• <sub>149</sub>	- <sub>150</sub>	— <sub>151</sub>	ˆ9x
23x	˘ <sub>152</sub>	™ <sub>153</sub>	š <sub>154</sub>	˘ <sub>155</sub>	œ <sub>156</sub>	ž <sub>157</sub>	˘ <sub>158</sub>	ÿ <sub>159</sub>	
24x	160	ı <sub>161</sub>	ç <sub>162</sub>	£ <sub>163</sub>	¤ <sub>164</sub>	¥ <sub>165</sub>	ı <sub>166</sub>	§ <sub>167</sub>	ˆAx
25x	¨ <sub>168</sub>	© <sub>169</sub>	ª <sub>170</sub>	« <sub>171</sub>	¬ <sub>172</sub>	¯ <sub>173</sub>	® <sub>174</sub>	˘ <sub>175</sub>	
26x	° <sub>176</sub>	± <sub>177</sub>	² <sub>178</sub>	³ <sub>179</sub>	´ <sub>180</sub>	µ <sub>181</sub>	¶ <sub>182</sub>	· <sub>183</sub>	ˆBx
27x	˘ <sub>184</sub>	¹ <sub>185</sub>	º <sub>186</sub>	» <sub>187</sub>	¼ <sub>188</sub>	½ <sub>189</sub>	¾ <sub>190</sub>	¿ <sub>191</sub>	
30x	À <sub>192</sub>	Á <sub>193</sub>	Â <sub>194</sub>	Ã <sub>195</sub>	Ä <sub>196</sub>	Å <sub>197</sub>	Æ <sub>198</sub>	Ç <sub>199</sub>	ˆCx
31x	È <sub>200</sub>	É <sub>201</sub>	Ê <sub>202</sub>	Ë <sub>203</sub>	Ì <sub>204</sub>	Í <sub>205</sub>	Î <sub>206</sub>	Ï <sub>207</sub>	
32x	Ð <sub>208</sub>	Ñ <sub>209</sub>	Ò <sub>210</sub>	Ó <sub>211</sub>	Ô <sub>212</sub>	Õ <sub>213</sub>	Ö <sub>214</sub>	× <sub>215</sub>	ˆDx
33x	Ø <sub>216</sub>	Ù <sub>217</sub>	Ú <sub>218</sub>	Û <sub>219</sub>	Ü <sub>220</sub>	Ý <sub>221</sub>	Þ <sub>222</sub>	ß <sub>223</sub>	
34x	à <sub>224</sub>	á <sub>225</sub>	â <sub>226</sub>	ã <sub>227</sub>	ä <sub>228</sub>	å <sub>229</sub>	æ <sub>230</sub>	ç <sub>231</sub>	ˆEx
35x	è <sub>232</sub>	é <sub>233</sub>	ê <sub>234</sub>	ë <sub>235</sub>	ì <sub>236</sub>	í <sub>237</sub>	î <sub>238</sub>	ï <sub>239</sub>	
36x	ð <sub>240</sub>	ñ <sub>241</sub>	ò <sub>242</sub>	ó <sub>243</sub>	ô <sub>244</sub>	õ <sub>245</sub>	ö <sub>246</sub>	÷ <sub>247</sub>	ˆFx
37x	ø <sub>248</sub>	ù <sub>249</sub>	ú <sub>250</sub>	û <sub>251</sub>	ü <sub>252</sub>	ý <sub>253</sub>	þ <sub>254</sub>	ÿ <sub>255</sub>	
	ˆ8	ˆ9	ˆA	ˆB	ˆC	ˆD	ˆE	ˆF	

## 6 T1 encoding font table

	ó	í	ú	û	ü	ý	ö	ÿ	
ó0x	` <sub>0</sub>	´ <sub>1</sub>	ˆ <sub>2</sub>	˜ <sub>3</sub>	¨ <sub>4</sub>	˘ <sub>5</sub>	˙ <sub>6</sub>	ÿ <sub>7</sub>	“0x
ó1x	˘ <sub>8</sub>	ˉ <sub>9</sub>	· <sub>10</sub>	¸ <sub>11</sub>	ˆ <sub>12</sub>	¸ <sub>13</sub>	ˆ <sub>14</sub>	ˆ <sub>15</sub>	
ó2x	“ <sub>16</sub>	” <sub>17</sub>	„ <sub>18</sub>	« <sub>19</sub>	» <sub>20</sub>	— <sub>21</sub>	— <sub>22</sub>	‡ <sub>23</sub>	“1x
ó3x	ff <sub>24</sub>	l <sub>25</sub>	j <sub>26</sub>	ffi <sub>27</sub>	fi <sub>28</sub>	fl <sub>29</sub>	ffl <sub>30</sub>	‡ <sub>31</sub>	
ó4x	‡ <sub>32</sub>	! <sub>33</sub>	" <sub>34</sub>	# <sub>35</sub>	\$ <sub>36</sub>	% <sub>37</sub>	& <sub>38</sub>	' <sub>39</sub>	“2x
ó5x	( <sub>40</sub> )	) <sub>41</sub>	* <sub>42</sub>	+ <sub>43</sub>	, <sub>44</sub>	- <sub>45</sub>	· <sub>46</sub>	/ <sub>47</sub>	
ó6x	0 <sub>48</sub>	1 <sub>49</sub>	2 <sub>50</sub>	3 <sub>51</sub>	4 <sub>52</sub>	5 <sub>53</sub>	6 <sub>54</sub>	7 <sub>55</sub>	“3x
ó7x	8 <sub>56</sub>	9 <sub>57</sub>	: <sub>58</sub>	; <sub>59</sub>	< <sub>60</sub>	= <sub>61</sub>	> <sub>62</sub>	? <sub>63</sub>	
ó8x	@ <sub>64</sub>	A <sub>65</sub>	B <sub>66</sub>	C <sub>67</sub>	D <sub>68</sub>	E <sub>69</sub>	F <sub>70</sub>	G <sub>71</sub>	“4x
ó9x	H <sub>72</sub>	I <sub>73</sub>	J <sub>74</sub>	K <sub>75</sub>	L <sub>76</sub>	M <sub>77</sub>	N <sub>78</sub>	O <sub>79</sub>	
óAx	P <sub>80</sub>	Q <sub>81</sub>	R <sub>82</sub>	S <sub>83</sub>	T <sub>84</sub>	U <sub>85</sub>	V <sub>86</sub>	W <sub>87</sub>	“5x
óBx	X <sub>88</sub>	Y <sub>89</sub>	Z <sub>90</sub>	[ <sub>91</sub>	\ <sub>92</sub>	] <sub>93</sub>	^ <sub>94</sub>	_ <sub>95</sub>	
óCx	‘ <sub>96</sub>	a <sub>97</sub>	b <sub>98</sub>	c <sub>99</sub>	d <sub>100</sub>	e <sub>101</sub>	f <sub>102</sub>	g <sub>103</sub>	“6x
óDx	h <sub>104</sub>	i <sub>105</sub>	j <sub>106</sub>	k <sub>107</sub>	l <sub>108</sub>	m <sub>109</sub>	n <sub>110</sub>	o <sub>111</sub>	
óEx	p <sub>112</sub>	q <sub>113</sub>	r <sub>114</sub>	s <sub>115</sub>	t <sub>116</sub>	u <sub>117</sub>	v <sub>118</sub>	w <sub>119</sub>	“7x
óFx	x <sub>120</sub>	y <sub>121</sub>	z <sub>122</sub>	{ <sub>123</sub>	<sub>124</sub>	} <sub>125</sub>	~ <sub>126</sub>	- <sub>127</sub>	
óGx	Ā <sub>128</sub>	Ā <sub>129</sub>	Č <sub>130</sub>	Č <sub>131</sub>	Ď <sub>132</sub>	Ě <sub>133</sub>	Ě <sub>134</sub>	Ě <sub>135</sub>	“8x
óHx	Ĺ <sub>136</sub>	Ĺ <sub>137</sub>	Ł <sub>138</sub>	Ń <sub>139</sub>	Ń <sub>140</sub>	Ń <sub>141</sub>	Ń <sub>142</sub>	Ń <sub>143</sub>	
óIx	Ř <sub>144</sub>	Ś <sub>145</sub>	Š <sub>146</sub>	Ş <sub>147</sub>	Ť <sub>148</sub>	Ť <sub>149</sub>	Ů <sub>150</sub>	Ů <sub>151</sub>	“9x
óJx	Ÿ <sub>152</sub>	Ž <sub>153</sub>	Ž <sub>154</sub>	Ž <sub>155</sub>	ı <sub>156</sub>	ı <sub>157</sub>	đ <sub>158</sub>	š <sub>159</sub>	
óKx	ă <sub>160</sub>	ą <sub>161</sub>	ć <sub>162</sub>	č <sub>163</sub>	d’ <sub>164</sub>	ě <sub>165</sub>	ę <sub>166</sub>	ğ <sub>167</sub>	“Ax
óLx	í <sub>168</sub>	ı <sub>169</sub>	ł <sub>170</sub>	ń <sub>171</sub>	ň <sub>172</sub>	η <sub>173</sub>	ő <sub>174</sub>	í <sub>175</sub>	
óMx	ř <sub>176</sub>	ś <sub>177</sub>	š <sub>178</sub>	ş <sub>179</sub>	ť <sub>180</sub>	ť <sub>181</sub>	ű <sub>182</sub>	ű <sub>183</sub>	“Bx
óNx	ÿ <sub>184</sub>	ž <sub>185</sub>	ž <sub>186</sub>	ž <sub>187</sub>	ij <sub>188</sub>	i <sub>189</sub>	ı <sub>190</sub>	£ <sub>191</sub>	
óOx	À <sub>192</sub>	Á <sub>193</sub>	Â <sub>194</sub>	Ã <sub>195</sub>	Ä <sub>196</sub>	Å <sub>197</sub>	Æ <sub>198</sub>	Ç <sub>199</sub>	“Cx
óPx	È <sub>200</sub>	É <sub>201</sub>	Ê <sub>202</sub>	Ë <sub>203</sub>	Ì <sub>204</sub>	Í <sub>205</sub>	Î <sub>206</sub>	Ï <sub>207</sub>	
óQx	Ð <sub>208</sub>	Ñ <sub>209</sub>	Ò <sub>210</sub>	Ó <sub>211</sub>	Ô <sub>212</sub>	Õ <sub>213</sub>	Ö <sub>214</sub>	Œ <sub>215</sub>	“Dx
óRx	Ø <sub>216</sub>	Ù <sub>217</sub>	Ú <sub>218</sub>	Û <sub>219</sub>	Ü <sub>220</sub>	Ý <sub>221</sub>	Þ <sub>222</sub>	ŠŠ <sub>223</sub>	
óSx	à <sub>224</sub>	á <sub>225</sub>	â <sub>226</sub>	ã <sub>227</sub>	ä <sub>228</sub>	å <sub>229</sub>	æ <sub>230</sub>	ç <sub>231</sub>	“Ex
óTx	è <sub>232</sub>	é <sub>233</sub>	ê <sub>234</sub>	ë <sub>235</sub>	ì <sub>236</sub>	í <sub>237</sub>	î <sub>238</sub>	ï <sub>239</sub>	
óUx	ð <sub>240</sub>	ñ <sub>241</sub>	ò <sub>242</sub>	ó <sub>243</sub>	ô <sub>244</sub>	õ <sub>245</sub>	ö <sub>246</sub>	œ <sub>247</sub>	“Fx
óVx	ø <sub>248</sub>	ù <sub>249</sub>	ú <sub>250</sub>	û <sub>251</sub>	ü <sub>252</sub>	ý <sub>253</sub>	þ <sub>254</sub>	ß <sub>255</sub>	
	“8	“9	“A	“B	“C	“D	“E	“F	

## 7 TS1 encoding font table

	ó	í	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	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

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### **Light italic**

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## 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`<sup>5</sup> for LuaTeX and XeTeX, or `mweights.sty`<sup>6</sup> and `fontaxes.sty`<sup>7</sup> for (pdf)LaTeX:

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

We use `kvoptions`<sup>8</sup> 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\bfseries@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\bfseries@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\defigures{\@nomath\defigures
151     \fontfigurestyle{denominators}\selectfont}
152   \DeclareTextFontCommand{\textde}{\defigures}
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			
	General: Initial version . . . . .	1	the usage of package options over different TeX engines . . . . .
v2.0			
	General: Add the 'scaled' key as requested by FMI . . . . .	1	Update OTF fonts to version 1.004 now consisting of 8 fonts, 844 glyphs each . . . . .
	Remove 'Rosario.fontspec' from the bundle since the functionality is now provided by the package itself . . . . .	1	Use NFSS scheme for fonts mapping . . . . .
	Rewrite major part of the code supporting 8 fonts. Harmonize		v2.1 General: Fix a bug in handling of alias keys . . . . .
			1