LaTeX support for Open Sans
Version 1.1

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November 3, 2011

Contents

1 Introduction

Open Sans is a humanist sans serif typeface designed by Steve Matteson. Open Sans was designed with an upright stress, open forms and a neutral, yet friendly appearance. It was optimized for print, web, and mobile interfaces, and has excellent legibility characteristics in its letterforms (see figure 1 on the following page). This font is available from the Google Font Directory [1] as TrueType files licensed under the Apache License version 2.0.

This package provides support for this font in LaTeX. It includes Type 1 versions of the fonts, converted for this package using FontForge from its sources, for full support with Dvips.

Open Sans Light
Open Sans Light Italic
Open Sans Condensed Light
Open Sans Condensed Light Italic
Open Sans Regular
Open Sans Italic
Open Sans Semibold
Open Sans Semibold Italic
Open Sans Bold
Open Sans Bold Italic
Open Sans Extrabold
Open Sans Extrabold Italic

Figure 1: Available styles for Open Sans

2 Installation

These directions assume that your TeX distribution is TDS-compliant.
Once the `opensans.zip` archive extracted:

1. Copy `doc/`, `fonts/`, `source/`, and `tex/` directories to your `texmf/` direc-
   tory (either your local or global `texmf/` directory).

2. Run `mktexlsr` to refresh the file name database and make TeX aware
   of the new files.

3. Run `updmap --enable Map=opensans.map` to make Dvips, dvipdf and
   pdfTeX aware of the new fonts.

Note that this package requires the `keyval` [2] and `slantsc` [3] (to handle
italic/slanted small caps) ones to work.

3 Usage

3.1 Calling Open Sans

You can use the Open Sans font in a LaTeX document by adding the command

`\usepackage{opensans}`

to the preamble. The package supplies the `\fosfamily` command to switch
the current font to Open Sans.

lining figures	0123456789
text figures	0123456789

Table 1: Comparison between lining figures and text figures

3.2 Options

3.2.1 Open Sans as default (sans-serif) font

You can set LaTeX to use Open Sans as standard font throughout the whole document by passing the `default` option to the package:

```
\usepackage[default]{opensans}
```

To set Open Sans as default sans-serif only:

```
\usepackage[defaultsans]{opensans}
```

3.2.2 Font scaling

The font can be up- and downscale by any factor. This can be used to make Open Sans more friendly when used in company with other type faces, e.g., to adapt the x-height. The package option `scale=`*ratio* will scale the font according to *ratio* (1.0 by default), for example:

```
\usepackage[scale=0.95]{opensans}
```

3.2.3 Figure selection

Open Sans provides two different figures versions (see table 1):

- *Lining figures* are designed to match the uppercase letters in size and clor; they are used by default.

- *Text figures* (also known as *old-style figures*) are designed to match the lowercase letters.

To use text figures by default when calling `\fosfamily`, enable the `osfigures` package option:

```
\usepackage[osfigures]{opensans}
```

To use Open Sans as default font with text figures:

```
\usepackage[default,osfigures]{opensans}
```

OT1-encoded	Te Té
T1-encoded	Te Té

Table 2: Kerning with OT1 and T1 encodings

family	encoding	series	shape
fos, fosj	OT1,T1, T2A, T2B, T2C, X2, LGR	l, lc, m, sb, b (bx), eb	n, it (sl), sc, scit (scsl)
	TS1		n, it (sl)

Table 3: Available font series and shapes for Open Sans; fosj corresponds to the text-figures version of the family

3.2.4 Encodings

The following encodings are supported:

Latin OT1, T1, TS1 (partial)

Cyrillic T2A, T2B, T2C, X2

Greek LGR (monotonic only)

To use one or another encoding, give the LaTeX name to the `fontenc` package as usual, as in

```
\usepackage[T1]{fontenc}
\usepackage{opensans}
```

Note that, as usual with OT1 encoded fonts, kerning with accented characters is treated poorly, if at all. Note difference in kerning between these two encoding in table 2. It is therefore advised to always use the Open Sans fonts in any encoding than OT1 when typing diacritics.

3.3 Available weights and variants

Table 3 lists the available font series and shapes with their NFSS classification. Parenthesized combinations are provided via substitutions. Notice that the slanted shapes are faked ones, as well as the small capitals (reduced to 80%).

Samples of the font are available in the `opensans-samples.pdf` file.

4 Known bugs and improvements

Please send bug reports and suggestions about the Open Sans LaTeX support to Mohamed El Morabity.

5 License

This package is released under the LaTeX project public license, either version 1.3c or above [4]. Anyway both the TrueType and Type 1 files are delivered under the Apache License version 2.0 [5].

References

[1] http://code.google.com/webfonts/family?family=Open+Sans

[2] http://www.ctan.org/tex-archive/macros/latex/required/graphics/

[3] http://www.ctan.org/tex-archive/macros/latex/contrib/slantsc/

[4] http://www.latex-project.org/lppl/lppl-1-3c.html

[5] http://www.apache.org/licenses/LICENSE-2.0.html