# L&ATEX support for Comfortaa
# Version 3.2

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## Contents

## 1 Introduction

Comfortaa is a rounded geometric sans-serif type designed by Johan Aakerlund [1]. The font, which includes three weights, is available on Johan's deviantArt web page [2] as TTF-flavored OpenType files licensed under the OFL version 1.1 [3].

This package provides support for this font family in L&ATEX, including X&ELATEX and LuaLATEX. It includes the original OpenType fonts, as

well as Type 1 versions, converted for this package using FontForge [4] for full support with LaTeX and Dvips.

# 2  Installation

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

1. Copy `doc/`, `fonts/`, and `tex/` directories to your `texmf/` directory (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-user --enable Map comfortaa.map`[1] to make Dvips, dvipdf and TeX aware of the new fonts

Note that this package requires the following packages to work:

- `fontspec` (for XeLaTeX/LuaLaTeX support)

- `ifluatex`

- `ifxetex`

- `xkeyval`

# 3  Usage

## 3.1  Calling Comfortaa

You can use the Comfortaa font family in a LaTeX document by adding the command

`\usepackage{comfortaa}`

to the preamble. The package supplies the `\comfortaa` command to switch the current font to Comfortaa.

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[1]Use the `updmap-sys` command instead for a global installation.

## 3.2 Options

### 3.2.1 Comfortaa as default (sans-serif) font

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

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

To set Comfortaa as default sans-serif only, use the `defaultsans` option:

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

### 3.2.2 OpenType vs. Type 1

Depending on the LaTeX rendering engine used, the package will automatically use:

- OpenType fonts with X$\exists$LaTeX and LuaLaTeX (the `fontspec` package will be therefore loaded)

- Type 1 fonts with all other LaTeX rendering engines (especially pdfLaTeX)

The package was written to provide same features whatever the TeX rendering engine used. Notice that OpenType fonts supply more typographic features like stylistic alternatives. The table 1 describes all OpenType features supported by the Comfortaa font family. Please refer to the `fontspec` package documentation to enable such features in your documents with X$\exists$LaTeX or LuaLaTeX.

To force Type 1 fonts with X$\exists$LaTeX or LuaLaTeX, use the `type1` option. This may be useful to avoid loading the `fontspec` package.

### 3.2.3 Font scaling

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

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

| Feature | Description | `fontspec` option |
|---------|-------------|-------------------|
| aalt | Access All Alternates | Unsupported |
| ccmp | Glyph Composition/Decomposition | Unsupported |
| dnom | Denominators | VerticalPosition=Denominator |
| frac | Fractions | Fractions=On |
| kern | Kerning | Kerning=On |
| liga | Standard Ligatures | Ligatures=Common |
| mark | Mark Positioning | Diacritics=MarkToBase |
| mkmk | Mark to Mark Positioning | Diacritics=MarkToMark |
| numr | Numerators | VerticalPosition=Numerator |
| ordn | Ordinals | VerticalPosition=Ordinal |
| salt | Stylistic Alternates | Style=Alternate |
| ss01 | Stylistic Set 1 | Alternate=1 |
| sups | Superscript | VerticalPosition=Superior |

Table 1: OpenType font features supported by Comfortaa fonts

| | |
|---|---|
| OT1-encoded | To Ta Té |
| T1-encoded | To Ta Té |

Table 2: Kerning with OT1 and T1 encodings

### 3.2.4 Encodings

The following LaTeX 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{comfortaa}
```

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 Comfortaa font family in any encoding than OT1 when typing diacritics.

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| Font | Series | Shape | OpenType font file |
|---|---|---|---|
| Comfortaa Light | l | n | `Comfortaa-Light.ttf` |
| Comfortaa Regular | m | n | `Comfortaa-Regular.ttf` |
| **Comfortaa Bold** | b (bx) | n | `Comfortaa-Bold.ttf` |

Table 3: Available font styles

## 3.3  Available weights, shapes and variants

Table 3 lists the available font series and shapes with their NFSS classification. Parenthesized combinations are provided via substitutions. The package also defines the `comfortaa` NFSS family.

Notice that Comfortaa doesn't come with italic shapes. *Fake slanted shapes are provided instead.*

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

# 4  Known bugs and improvements

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

## 4.1  Compatibility with previous versions

### 4.1.1  Legacy **fco** family

Previous versions of the package used to provide `fco` as default NFSS family for Comfortaa, and the corresponding `\fcofamily` switch command. Such family and macro are still available in newer package versions. In particular, the `fco` family is now an alias for the `comfortaa` one.

### 4.1.2  Smallcaps

Since the Comfortaa font family doesn't provide yet "real" smallcaps, faked ones were supplied by previous versions of the `comfortaa` package (by scaling down uppercase letters), with a very poor result. Furthermore, there's no convenient way to generate fake smallcaps with X∃TEX or LuaTEX engines and native OpenType fonts.

For these reasons, faked small caps are no longer provided, starting with version 3.0 of the `comfortaa` package. Anyway LaTeX should automatically substitute missing smallcap shapes by normal ones.

# 5   License

This package is released under the LaTeX project public license, either version 1.3c or above [5]. Anyway both OpenType and Type 1 files are delivered under the Open Font License version 1.1 [3].

## References

[1] https://www.deviantart.com/aajohan

[2] https://www.deviantart.com/aajohan/art/
    Comfortaa-font-105395949

[3] http://scripts.sil.org/OFL_web

[4] https://fontforge.github.io/

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