

ℒ_Tℒ_EX support for Droid

Version 1.0

Mohamed El Morabity
melmorabity@fedoraproject.org

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1 Introduction

The Droid typeface family was designed in the fall of 2006 by Ascender’s Steve Matteson, as a commission from Google to create a set of system fonts for its Android platform. The goal was to provide optimal quality and comfort on a mobile handset when rendered in application menus, web browsers and for other screen text. The Droid family of fonts consists of Droid Serif, Droid Sans and Droid Sans Mono, licensed under the Apache License version 2.0, and available in the Android Git tree [1] as TrueType files.

This package provides support for this font family in ℒ_Tℒ_EX. It includes the original TrueType fonts, as well as Type 1 versions, converted for this package using FontForge for full support with Dvips.

Notice that this package does not support the Droid Pro family sold by Ascender [2].

2 Installation

These directions assume that your \TeX distribution is TDS-compliant.

Once the `droid.zip` archive extracted:

1. Copy `doc/`, `fonts/`, `source/`, 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 --enable Map droid.map` to make `Dvips`, `dvipdf` and `pdf \TeX` aware of the new fonts.

Note that this package requires the `keyval` [3] and `slantsc` [4] (to handle italic/slanted small caps) ones to work.

3 Usage

3.1 Calling Droid

Several macro packages are provided to use these font families with \LaTeX :

font name	family	package	switch command
Droid Serif	fdr	droidserif	<code>\fdrfamily</code>
Droid Sans	fds	droidsans	<code>\fdsfamily</code>
Droid Sans Mono	fdm	droidmono	<code>\fdmfamily</code>

For each family package, the provided commands `\fdrfamily`, `\fdsfamily` and `\fdmfamily` will switch the current font to Droid Serif, Droid Sans and Droid Sans Mono respectively. You need not necessarily use all three font families together (even though this is supported, see below).

3.1.1 Using the Droid font families together

To make the use of the three Droid fonts families together most easy, a further macro package `droid` is provided:

```
\usepackage{droid}
```

This will set Droid Serif, Droid Sans and Droid Sans Mono as the three main text font families.

3.1.2 Using each font family separately

You can set \LaTeX to use Droid Serif only as standard font throughout the whole document by passing the `default` option to the `droidserif` package:

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

As well, you can set \LaTeX to use Droid Sans as standard font with the `default` option to the `droidsans` package:

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

To set Droid Sans as default sans-serif only:

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

Finally, to set Droid Sans Mono as the default typewriter font:

```
\usepackage[defaultmono]{droidmono}
```

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

```
\usepackage[scaled=0.95]{droidserif}  
\usepackage[scaled=0.95]{droidsans}  
\usepackage[scaled=0.95]{droidmono}
```

3.2 Encodings

The following encodings are supported:

Latin	OT1, T1, TS1 (partial)
Cyrillic	T2A, T2B, T2C, X2
Greek	LGR

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

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

Note that, as usual with OT1 encoded fonts, kerning with accented characters is treated poorly, if at all. Note difference in kerning between e.g.

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

It is therefore advised to always use the Droid fonts in any encoding than OT1 when typing diacritics.

3.3 Available weights and variants

The following table lists the available font series and shapes with their NFSS classification. Parenthesized combinations are provided via substitutions.

family	encoding	series	shape
fdr	OT1, T1, T2A, T2B, T2C, X2, LGR	m, b (bx)	n, it, sl, up sc, scit, scsl, scup
	TS1	m, b (bx)	n, it, sl, up
fds	OT1, T1, T2A, T2B, T2C, X2, LGR	m, b (bx)	n, sl (it) sc, scsl (scit)
	TS1	m, b (bx)	n, sl (it)
fdm	OT1, T1, T2A, T2B, T2C, X2, LGR	m	n, sl (it) sc, scsl (scit)
	TS1	m	n, sl (it)

Notice that the slanted shapes are faked ones for Droid Sans and Droid Sans Mono, as well as the upright shape for Droid Serif and the small capitals for all the families (reduced to 80%).

4 Known bugs and improvements

Please send bug reports and suggestions about the Droid \LaTeX support to [Mohamed El Morabity](#).

5 License

This package is released under the \LaTeX project public license, either version 1.3c or above [5]. Anyway both the TrueType and Type 1 files are delivered under the Apache License Version 2.0 [6].

References

- [1] <http://android.git.kernel.org/?p=platform/frameworks/base.git;a=tree;f=data/fonts>
- [2] <http://www.DroidFonts.com/>
- [3] <http://www.ctan.org/tex-archive/macros/latex/required/graphics/>
- [4] <http://www.ctan.org/tex-archive/macros/latex/contrib/slantsc/>
- [5] <http://www.latex-project.org/lppl/lppl-1-3c.html>
- [6] <http://www.apache.org/licenses/LICENSE-2.0.html>