The pandora fonts for use with LaTeX 2$_\varepsilon$*

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1 Introduction

This file defines the font shape groups for the pandora fonts designed by Nazeen N. Billawala [1, 2] as well as a package file for loading Pandora Roman with the `\rmfamily` command and Pandora Sans with the `\sffamily` command.

To make Pandora the main document font specify the `pandora` package in a `\usepackage` command.

2 The docstrip modules

The following modules are used in the implementation to direct docstrip in generating the external files:

driver	produce a documentation driver file
package	produce a package file
fd	produce a font definition file

3 A driver for this document

The next bit of code contains the documentation driver file for TeX, i.e., the file that will produce the documentation you are currently reading. It will be extracted from this file by the docstrip program.

```
⟨*driver⟩
\documentclass{ltxdoc}
 %\OnlyDescription  % comment out for implementation details
\begin{document}
   \DocInput{pandora.dtx}
\end{document}
⟨/driver⟩
```

*This file contains a reproduction of an article by Yannis Haralambous

4 The Implementation

4.1 Identification

We start by writing to the transcript file.

```
⟨*package⟩
```

4.2 Options

This package does not support options.

4.3 The Main Package Code

We change the ensure that `OT1` is the default encoding and also change the substitution defaults for the this encoding. If `\familydefault` is not changed directly, then the change to `\rmdefault` will automatically change the main font too.

```
\renewcommand{\encodingdefault}{OT1}
\DeclareFontSubstitution{OT1}{panr}{m}{n}
```

Default for `\rmfamily` will be Pandora Roman and for `\sffamily` Pandora Sans.

```
\renewcommand{\rmdefault}{panr}
\renewcommand{\sfdefault}{pss}
\renewcommand{\bfdefault}{b}
\renewcommand{\itdefault}{sl}
⟨/package⟩
```

We assume that for LaTeX use at least the standard magifications are available. If you don't like that setup copy the corresponding code into your own font shape definition file and make adjustments.

4.4 The Font-Definition Files

The Pandora Roman family exists with in medium and bold series and contains in the medium series a slanted shape beside the normal one. We define a substitution shape for italic to point to the slanted one so that a request for `\itshape` will be partly honored.

```
⟨*panr⟩
\DeclareFontFamily{OT1}{panr}{}
\DeclareFontShape{OT1}{panr}{m}{n}{
   <5> <6> <7> <8> <9> <10> <10.95> <12>
   <14.4> <17.28> <20.74> <24.88> pnr10  }{}
\DeclareFontShape{OT1}{panr}{b}{n}{
   <5> <6> <7> <8> <9> <10> <10.95> <12>
   <14.4> <17.28> <20.74> <24.88> pnb10  }{}
\DeclareFontShape{OT1}{panr}{m}{sl}{
   <5> <6> <7> <8> <9> <10> <10.95> <12>
   <14.4> <17.28> <20.74> <24.88> pnsl10 }{}
\DeclareFontShape{OT1}{panr}{m}{it}{ <-> sub * panr/m/sl }{}
⟨/panr⟩
```

The Pandora Sans family has the same members.

```
⟨*pss⟩
\DeclareFontFamily{OT1}{pss}{}
\DeclareFontShape{OT1}{pss}{m}{n}{
   <5> <6> <7> <8> <9> <10> <10.95> <12>
   <14.4> <17.28> <20.74> <24.88> pnss10  }{}
\DeclareFontShape{OT1}{pss}{b}{n}{
   <5> <6> <7> <8> <9> <10> <10.95> <12>
   <14.4> <17.28> <20.74> <24.88> pnssb10 }{}
\DeclareFontShape{OT1}{pss}{m}{sl}{
   <5> <6> <7> <8> <9> <10> <10.95> <12>
   <14.4> <17.28> <20.74> <24.88> pnssi10 }{}
\DeclareFontShape{OT1}{pss}{m}{it}{ <-> sub * pss/m/sl }{}
⟨/pss⟩
```

The next line goes into all files and in addition prevents docstrip from adding any further code from the main source file (such as a character table.

```
\endinput
```

References

[1] Nazeen N. Billawala. Metamarks: Preliminary studies for a pandora's box of shapes. Technical Report STAN-CS-89-1256, Stanford University, Department of Computer Science, Stanford, California 94305, 1989.

[2] Neenie Billawala. Opening Pandora's Box. In Christina Thiele, editor, *1989 Conference Proceedings*, volume 10#4 of TUGboat, pages 481–489. TEX Users Group, December 1989.