

The Trebuchet package - A FrankenFont \LaTeX style

Luci Ellis

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The package `trebuchet.sty` is a variant of Olaf Dietrich's `sfnmath.sty` that implements Trebuchet as the text and main math font in \LaTeX documents. Because Trebuchet is a TrueType font, you must be using pdf \LaTeX or a variant to compile your document.

As well as the work of Olaf Dietrich and Stephen Hartke, this package would not be possible without the inspiration of Thierry Bouche's original `mathfont.sty` package, which showed me that it was possible to meld the text font into math usage, and thus get 'FrankenFont' documents that actually look quite reasonable.

1 Requirements

The package relies on the `arev` package by Stephen Hartke, which comes with \TeX -Live 2007 and Mik \TeX . The package sets both normal and sans-serif text to Trebuchet, and monospaced text to Bera Mono.

2 Installation

Trebuchet was one of the Core Web Fonts from Microsoft. If you do not already have it, you can download it from Sourceforge at http://sourceforge.net/project/showfiles.php?group_id=34153.

The installation process works as follows.

1. Download or make copies of the Trebuchet fonts. You will need to rename them as follows:
 - TrebuchetMS (Roman) to `mtbr16.ttf`
 - TrebuchetMS-Bold to `mtbb16.ttf`
 - TrebuchetMS-Italic to `mtbri16.ttf`
 - Trebuchet-BoldItalic to `mtbbi16.ttf`
2. Move the copied and renamed fonts to `texmf/fonts/truetype`, or a subfolder inside it such as `texmf/fonts/truetype/microsoft/trebuchet`
3. Expand the `trebuchet.zip` file and move the folders inside it to the required places in your local `texmf` folder hierarchy.
 - Move the Trebuchet folder inside the `tex` folder somewhere into `texmf/tex/latex`
 - Move the Trebuchet folder inside the `tfm` folder into `texmf/fonts/tfm`

- Move the Trebuchet folder inside the vf folder into texmf/fonts/vf
- Move the two files with .enc endings, T1-WGL4.enc and TS1-AGL.enc into texmf/fonts/enc (if you haven't installed them already)
- Move the trebuchet.map file into texmf/fonts/map/pdftex
- Perform whatever procedure your TeX distribution requires to update the maps and tell TeX that the files exist. For example, type
 - updmap-sys -enable Map=trebuchet.map
 - or if you need root privileges, sudo updmap-sys -enable Map=trebuchet.map

You can then call the font, as shown.

```
\usepackage{trebuchet}
```

3 Contents of the package

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{trebuchet}[2007/10/30:
PSNFSS v.4 LaTeX package loading Trebuchet (TrueType) for text, Arev math and Bera mo
\RequirePackage[T1]{fontenc}
\RequirePackage{amsmath}
\RequirePackage{arev}

% Set the font
\newcommand{\@textfont}{mtb}

\renewcommand{\familydefault}{\@textfont}% defines text font as Trebuchet
\renewcommand{\sfdefault}{\@textfont}
\renewcommand{\rmdefault}{\@textfont}
\renewcommand{\ttdefault}{fvm}
\newcommand{\math@sfGreek}{zavm}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Math font - modified from sfmath.sty by Olaf Dietrich
% Change font for digits and "operators" (\sin, \exp, ...)
% to default sans serif font
\SetSymbolFont{operators}{normal}{T1}{\@textfont}{m}{n}
\SetSymbolFont{operators}{bold}{T1}{\@textfont}{b}{n}
% change letters
\DeclareSymbolFont{SFMath}{T1}{\@textfont}{m}{sl}
\SetSymbolFont{SFMath}{normal}{T1}{\@textfont}{m}{sl}

\DeclareMathSymbol{A}{\mathalpha}{SFMath}{'A}
\DeclareMathSymbol{B}{\mathalpha}{SFMath}{'B}
\DeclareMathSymbol{C}{\mathalpha}{SFMath}{'C}
\DeclareMathSymbol{D}{\mathalpha}{SFMath}{'D}
\DeclareMathSymbol{E}{\mathalpha}{SFMath}{'E}
\DeclareMathSymbol{F}{\mathalpha}{SFMath}{'F}
\DeclareMathSymbol{G}{\mathalpha}{SFMath}{'G}
\DeclareMathSymbol{H}{\mathalpha}{SFMath}{'H}
\DeclareMathSymbol{I}{\mathalpha}{SFMath}{'I}
\DeclareMathSymbol{J}{\mathalpha}{SFMath}{'J}
\DeclareMathSymbol{K}{\mathalpha}{SFMath}{'K}
\DeclareMathSymbol{L}{\mathalpha}{SFMath}{'L}
```

```

\DeclareMathSymbol{M}{\mathalpha}{SFMATH}{'M}
\DeclareMathSymbol{N}{\mathalpha}{SFMATH}{'N}
\DeclareMathSymbol{O}{\mathalpha}{SFMATH}{'O}
\DeclareMathSymbol{P}{\mathalpha}{SFMATH}{'P}
\DeclareMathSymbol{Q}{\mathalpha}{SFMATH}{'Q}
\DeclareMathSymbol{R}{\mathalpha}{SFMATH}{'R}
\DeclareMathSymbol{S}{\mathalpha}{SFMATH}{'S}
\DeclareMathSymbol{T}{\mathalpha}{SFMATH}{'T}
\DeclareMathSymbol{U}{\mathalpha}{SFMATH}{'U}
\DeclareMathSymbol{V}{\mathalpha}{SFMATH}{'V}
\DeclareMathSymbol{W}{\mathalpha}{SFMATH}{'W}
\DeclareMathSymbol{X}{\mathalpha}{SFMATH}{'X}
\DeclareMathSymbol{Y}{\mathalpha}{SFMATH}{'Y}
\DeclareMathSymbol{Z}{\mathalpha}{SFMATH}{'Z}
\DeclareMathSymbol{a}{\mathalpha}{SFMATH}{'a}
\DeclareMathSymbol{b}{\mathalpha}{SFMATH}{'b}
\DeclareMathSymbol{c}{\mathalpha}{SFMATH}{'c}
\DeclareMathSymbol{d}{\mathalpha}{SFMATH}{'d}
\DeclareMathSymbol{e}{\mathalpha}{SFMATH}{'e}
\DeclareMathSymbol{f}{\mathalpha}{SFMATH}{'f}
\DeclareMathSymbol{g}{\mathalpha}{SFMATH}{'g}
\DeclareMathSymbol{h}{\mathalpha}{SFMATH}{'h}
\DeclareMathSymbol{i}{\mathalpha}{SFMATH}{'i}
\DeclareMathSymbol{j}{\mathalpha}{SFMATH}{'j}
\DeclareMathSymbol{k}{\mathalpha}{SFMATH}{'k}
\DeclareMathSymbol{l}{\mathalpha}{SFMATH}{'l}
\DeclareMathSymbol{m}{\mathalpha}{SFMATH}{'m}
\DeclareMathSymbol{n}{\mathalpha}{SFMATH}{'n}
\DeclareMathSymbol{o}{\mathalpha}{SFMATH}{'o}
\DeclareMathSymbol{p}{\mathalpha}{SFMATH}{'p}
\DeclareMathSymbol{q}{\mathalpha}{SFMATH}{'q}
\DeclareMathSymbol{r}{\mathalpha}{SFMATH}{'r}
\DeclareMathSymbol{s}{\mathalpha}{SFMATH}{'s}
\DeclareMathSymbol{t}{\mathalpha}{SFMATH}{'t}
\DeclareMathSymbol{u}{\mathalpha}{SFMATH}{'u}
\DeclareMathSymbol{v}{\mathalpha}{SFMATH}{'v}
\DeclareMathSymbol{w}{\mathalpha}{SFMATH}{'w}
\DeclareMathSymbol{x}{\mathalpha}{SFMATH}{'x}
\DeclareMathSymbol{y}{\mathalpha}{SFMATH}{'y}
\DeclareMathSymbol{z}{\mathalpha}{SFMATH}{'z}

\DeclareMathSymbol{\imath}{\mathalpha}{SFMATH}{"10}
\DeclareMathSymbol{\jmath}{\mathalpha}{SFMATH}{"11}

\DeclareMathAlphabet{\mathscr}{U}{rsfs}{m}{n} % Ralph Smith Formal Script
\DeclareSymbolFont{SFMATHGreeK}{OT1}{\math@sfGreeK}{m}{n}
\SetSymbolFont{SFMATHGreeK}{normal}{OT1}{\math@sfGreeK}{m}{n}
\SetSymbolFont{SFMATHGreeK}{bold}{OT1}{\math@sfGreeK}{b}{n}
% Redeclaring uppercase Greek and math accents back to Arev
% Because Trebuchet doesn't have Greek letters in T1 encoding
% And the Trebuchet T1 accents just look bad
\DeclareMathSymbol{\Gamma}{\mathalpha}{SFMATHGreeK}{"00}
\DeclareMathSymbol{\Delta}{\mathalpha}{SFMATHGreeK}{"01}
\DeclareMathSymbol{\Theta}{\mathalpha}{SFMATHGreeK}{"02}
\DeclareMathSymbol{\Lambda}{\mathalpha}{SFMATHGreeK}{"03}
\DeclareMathSymbol{\Xi}{\mathalpha}{SFMATHGreeK}{"04}

```

```

\DeclareMathSymbol{\Pi}{\mathalpha}{SFMATHGREEK}{"05}
\DeclareMathSymbol{\Sigma}{\mathalpha}{SFMATHGREEK}{"06}
\DeclareMathSymbol{\Upsilon}{\mathalpha}{SFMATHGREEK}{"07}
\DeclareMathSymbol{\Phi}{\mathalpha}{SFMATHGREEK}{"08}
\DeclareMathSymbol{\Psi}{\mathalpha}{SFMATHGREEK}{"09}
\DeclareMathSymbol{\Omega}{\mathalpha}{SFMATHGREEK}{"0A}
\DeclareMathSymbol{\upDelta}{\mathalpha}{SFMATHGREEK}{"01}
\DeclareMathSymbol{\upOmega}{\mathalpha}{SFMATHGREEK}{"0A}
% Accents
\DeclareMathAccent{\grave}{\mathord}{SFMATHGREEK}{"12}
\DeclareMathAccent{\acute}{\mathord}{SFMATHGREEK}{"13}
\DeclareMathAccent{\breve}{\mathord}{SFMATHGREEK}{"1D}
\DeclareMathAccent{\hat}{\mathord}{SFMATHGREEK}{"5E}
\DeclareMathAccent{\tilde}{\mathord}{SFMATHGREEK}{"7E}
\DeclareMathAccent{\bar}{\mathord}{SFMATHGREEK}{"16}
\DeclareMathAccent{\dot}{\mathalpha}{SFMATHGREEK}{"5F}
\DeclareMathAccent{\ddot}{\mathalpha}{SFMATHGREEK}{"7F}

\endinput

```