## NAME

t1mapper – A tool to help xdvi use all your t1 fonts

## SYNOPSIS

**t1mapper** [*OPTIONS*] *TeX-fontdir Type1-font-file-spec*

**t1mapper** [*OPTIONS*] -gs *GS-fontmap GS-fontdir TeX-fontdir*

## DESCRIPTION

**T1mapper** is a utility script written in Perl. It assists you in making new Postscript<tm> Type1 fonts available for use with **xdvi**.

*NOTE:* **Running this utility is only required if your TeX installation doesn't already contain the neccessary .pfb files somewhere in the texmf/ directory hierarchy.**

The first invocation shown above makes any Type1 font you may have floating around on your system available to **xdvi**. The second invocation is for hi-jacking fonts from your Ghostscript installation, which will supply **xdvi** with all the standard Type1 fonts it needs.

**T1mapper** relies on a installed and working **texk** system to be present. In particular it uses **kpsewhich** to locate the **fontname** package .map files which maps between Postscript<tm> font names and TeX font names. **teTeX** is one such **texk** system.

When invoked without the **-gs** option, t1mapper will examine each of the fonts specified. It will attempt to determine the Postscript name of the font by looking inside the font file, and if that name has a TeX equivalent it will copy, link or symlink your the file into the TeX font directory you named first on the command line. The name in the TeX font directory will be according to the TeX/KB-fontname scheme, so that the font names used in **.dvi** files matches the names found in the TeX font directories.

When invoked with the **-gs** option **t1mapper** will read the named GS Fontmap file to determine which GS font files correspond to which standard Postscript fonts (GS' version of Times-Roman is not called *Times-Roman*, it's actually called *NimbusRomNo9L-Regu*), and then proceed to copy or link the files in the named GS font directory into the named TeX font directory.

The program's diagnostic output is also written to a logfile *t1map.log*, which is created either in the current working directory or in **/tmp**.

## OPTIONS

All options except **-gs** have to do with how the font files are copied or linked into the TeX font directories:

**-cp**    Copy the files from the *GS-fontdir* or matching the *Type1-font-file-spec* into the *TeX-fontdir*. This is the default and will always work.

**-ln**    Hard link the files. This requires the fonts to reside on the same disk, but it will save space, and the files will not disappear from the *TeX-fontdir* if they are removed from the source directory.

**-lns**   Symlink the files. This saves space, but if the original files are removed the symlinks will be broken.

**-lnlns** Attempt hard-link first, if it fails make symlink.

**-lncp**  Attempt hard-link first, if that fails, copy the font.

**EXAMPLES**

If your Ghostscript is installed in **/usr/local/share/ghostscript** and your TeX lives in **/usr/local/teTeX** then this command will make your GS fonts available to xdvi:

t1mapper    -lns    -gs    \               /usr/local/share/ghostscript/5.50/Fontmap    \
        /usr/local/share/ghostscript/fonts \         /usr/local/teTeX/share/texmf/fonts/type1/gs

The first argument here is the full path to the GS Fontmap. The second is the GS font directory, note the lack of wildcards here (as opposed to the next example). The third argument is the TeX font directory. If it does not exist it will be created. Texk and teTeX uses quite finely structured font directories, and the above reflects this.

If you have a Solaris machine with Display Postscript fonts then this command will make them available to xdvi:

t1mapper  -lns  \          /usr/local/teTeX/share/texmf/fonts/type1/gs  \          /usr/open-win/lib/X11/fonts/Type1/*.pfa

Here the first argument is the TeX font directory and thereafter comes a wildcard that specifies which fonts to examine for copying/linking into the TeX font directory.

**FILES**

**fontname** Postscript to TeX name mapping files from **http://tug.org/fontname/,** these are included in teTeX.

**Ghostscript** fonts from **http://sourceforge.net/projects/ghostscript/** or **http://www.gnu.org/software/ghostscript/ghostscript.html**

**SEE ALSO**

**kpsewhich**(1), **xdvi**(1), **ln**(1), **README.t1fonts** in the source distribution

**AUTHOR**

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