

# FONT MANAGEMENT FOR THE SOLE USER IN T<sub>E</sub>X LIVE 2013

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## 1. INTRODUCTION

This document and the included script and Macro menu items spell out my recommendation for the simplest font management for T<sub>E</sub>X Live provided you are the sole T<sub>E</sub>X user on the machine. It's assumed that you have administrative privileges. The advice boils down to:

- Keep all your personal font configuration in one place, a file `updmap.cfg` located in your home folder as, say, `~/updmap.cfg`—you may need to copy into it the contents of the versions of `updmap.cfg` located in

```
/usr/local/texlive/texmf-local/web2c
/usr/local/texlive/2013/texmf-config/web2c
```

For this, you may use the command (should all be on one line)

```
/bin/cat /usr/local/texlive/texmf-local/web2c
/usr/local/texlive/2013/texmf-config/web2c >> ~/updmap.cfg
```

and then delete the former files using the commands

```
sudo rm /usr/local/texlive/texmf-local/web2c
sudo rm /usr/local/texlive/2013/texmf-config/web2c
```

- each time you install a distribution for a new T<sub>E</sub>X Live year, use the script `newupdmap` to make a symlink of your `updmap.cfg` in

```
/usr/local/texlive/20xx/texmf-config/web2c
```

- Always install font packages in `texmf-local`. If you downloaded a folder in TDS format (ie, with subfolders `tex`, `fonts` ready to fold into your existing T<sub>E</sub>X Directory Structure), you could use, assuming your working directory includes the folder `acaslon.tds`

```
sudo rsync -av --exclude=".*" acaslon.tds/ /usr/local/texlive/texmf-local/
```

and process them with

```
sudo -H mktexlsr
sudo -H updmap-sys --enable Map acaslon.map
```

or add the line

```
Map acaslon.map
```

*followed by a RETURN* directly to the end of your `updmap.cfg` before running

```
sudo -H updmap-sys
```

## 2. WHAT THIS ACCOMPLISHES

If you follow this advice, you will have just two `updmap.cfg` files in your `texmf` forest—`updmap-sys` reads first the one in `texmf-dist`, which is maintained by the system and amounts to a list all the font map files in the current  $\text{\TeX}$  Live distribution either as originally installed, or as updated by  $\text{\TeX}$  Live Utility. It then reads your personal `updmap.cfg` and modifies accordingly the output map files (eg, `pdftex.map`) used during a  $\text{\TeX}$  run. Each line of your own `updmap.cfg` should have one of the following forms:

```
#! Map Starburst.map
Map acaslon.map
```

the first form for disabling, the second for enabling. Entries later in the file override earlier ones. The contents of your personal `updmap.cfg` may be modified in either of two ways, each having the same effect. The first way is to edit the file in a plain text editor, remembering to leave one or more blank lines at the end, followed by running

```
sudo -H mktexlsr
sudo -H updmap-sys
```

The second way is to use, after copying the font package `acaslon` into `texmf-local`,

```
sudo -H mktexlsr
sudo -H updmap-sys --enable Map acaslon.map
```

—the entry

```
Map acaslon.map
```

will be added to the end of your `updmap.cfg`, provided it was not already enabled. Correspondingly, `--disable` adds a line beginning with `#!`, if required. So, the effect will be the same as editing your `updmap.cfg` manually, then running

```
sudo -H mktexlsr
sudo -H updmap-sys
```

Note that if you had used an `updmap.cfg` in `texmf-local` for your personal changes but also made use of the `--enable` and `--disable` options to `updmap-sys`, creating a version of `updmap.cfg` (or using a symlink from it) in `texmf-config`, the latter would always have higher precedence than the former, a potentially confusing problem.

### 3. WHAT IF I REALLY WANT TO INSTALL FONTS IN MY HOME DIRECTORY?

If you don't mind the slight additional conceptual complication it involves, the analogous setup involves making a symlink of a home configuration file, something like

```
~/updmaphome.cfg
```

that you place each new T<sub>E</sub>XLive year into

```
~/Library/texlive/20xx/texmf-config/web2c
```

with a command like

```
ln -s ~/updmaphome.cfg ~/Library/texlive/2013/texmf-config/web2c/updmap.cfg
```

Make sure that you have no file named `updmap.cfg` in

```
~/Library/texmf/web2c
```

You will then have essentially the same setup as described above: editing `updmaphome.cfg` manually with a new line `Map xxx.map` and running

```
updmap
```

has essentially the same effect as running

```
updmap --enable Map xxx.map
```

If you have such a setup, make sure to check the setting in TeX Live Utility Preferences to Automatically enable fonts in my home directory, which causes TeX Live Utility to run `updmap` immediately after running its normal `updmap-sys` (as root) thus keeping the updated distribution from becoming out of sync with your personal setup.

My reluctance to recommend this method is that you may now have two versions of `updmap.cfg`, the home version having the final word, and that seems likely to lead to later confusion later when you forget the rules. (Confession: I do install some font file packages in my home `texmf` folder as it is much more convenient while I'm making changes to the support files, but I always install the map file(s) in `texmf-local` in order to lower the risk of `updmap` confusion.)

### 4. TWO MACROS TO HELP AUTOMATE UPDMAP

The file `updmapMacros.plist` should be installed only if you have followed the advice described above. To install as items in your Macros menu, select `Macros/Open Macro Editor...`, following which you select `Macros/Add macros from file...`, and use the file selector dialog to select the `plist`. To finish, select `Save` from the bottom of the `Macros Menu Editor`. The two macros added are:

- **Edit `updmap.cfg`:** bring up your personal `updmap.cfg` in TeXShop. You may need to edit the script to meet your own circumstances.
- **`updmap-sys`:** run, in Terminal,

```
sudo mktexlsr  
sudo -H updmap-sys
```

to register the changes you just made to your updmap.cfg. (Your password will be required.) If you decide to make all changes in your home texmf, change this to  
updmap