

Document Processing Flow Using Pandoc and TeX

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1 Setup the workflow on Mac OS X

Firstly, please install **pandoc** package from **Homebrew**. If you haven't installed brew on your Mac, please give it a try.

```
$ brew install pandoc
```

Standalone pandoc package is available on <https://github.com/jgm/pandoc/releases>.

Secondaly, install **MacTeX** via **Homebrew Cask**. Yes, cask is highly recommended for Mac users too. Please be patient as it takes time to download the 2.3GB installation file.

```
$ brew cask install mactex
```

Don't forget to add texbin into \$PATH:

```
$ echo 'export PATH=$PATH:/usr/texbin' >> ~/.bash_profile
```

Standalone MacTeX package is available on <https://www.tug.org/mactex/>.

After that, install the necessary fonts by double click the font files. Font files “TeX Gyre Termes” can be retrieved from <http://www.gust.org.pl/projects/e-foundry/tex-gyre/termes>. Please make sure you have authorized files for the Adobe Chinese fonts: AdobStongStd, AdobHeitiStd, AdobFangsongStd and AdobKaitiStd.

Finally, install zhfonts module for the ConTeXt engine.

```
$ cd ~/Library/  
$ mkdir -p texmf/tex/context/third  
$ cd !$  
$ git clone https://github.com/liyanrui/zhfonts.git  
$ luatools --generate  
$ mtxrun --script fonts --reload  
$ mtxrun --script fonts --list --pattern=\* --all
```

Now you should be able to build the HPC sample documents.

2 Setup the workflow on GNU/Linux

Firstly, please download TexLive 2014 installer from <http://mirror.ctan.org/systems/texlive/tlnet/install-tl-unx.tar.gz>.

Secondly, run the installer.

```
$ cd /your/download/directory  
$ ./install-tl  
[... messages omitted ...]  
Enter command: i  
[... when done, see below for post-install ...]
```

When you see Welcome to TeX Live! , congratulations, you have successfully installed texlive2014. Now modify the environment variable PATH as follow:

```
$ export PATH=/usr/local/texlive/2014/bin/x86_64-linux:$PATH
```

If you need mannual, please type:

```
export MANPATH=/usr/local/texlive/2014/texmf-dist/doc/man:$MANPATH
export INFOPATH=/usr/local/texlive/2014/texmf-dist/doc/info:$INFOPATH
```

After that, please install Pandoc from package manager.

```
$ sudo apt-get install pandoc
```

Standalone pandoc package is available on <https://github.com/jgm/pandoc/releases>.

Finally, please download the latest version of zhfont from <https://github.com/liyanrui/zhfonts>, then replace the original files with it:

```
$ cp t-* /YOUR/INSTALL/PATH/texlive/2014/texmf-dist/doc/context/third/context-notes-zh-cn/src/
```

Now, we can generate wiki and pdf file using Texlive and pandoc.

For building steps, please refer to the Makefile in hpc-maintenance-docs repo <http://git.hpc.sjtu.edu.cn/docs/hpc-maintenance-docs/blob/master/Makefile>.

3 Setup the workflow on Windows

At the very beginnning, Windows users are required to install **Cygwin** to make the Linux tools take effect. Pleas check the following tools during installation:

- Base:sed
- Devel: make
- Base: openssl
- Net: openssl
- Devel: git, git-completion.
- Editors: vim, vim-common

After installation, a shortcut of Cygwin will be added on your Desktop.

Firstly, install **pandoc** from its binary release on <https://github.com/jgm/pandoc/releases>.

Secondly, install **TeXLive** 2014 by running `install-tl-windows.bat` in the ISO image. Commands of Tex Live will be automatically added to your PATH.

Then install extra fonts required by the HPC template. Download fonts `AdobStongStd`, `AdobHeitiStd`, `AdobeFangsongStd` and `AdobKaitiStd`, then copy them into `YOUR_SYSTEM_PARTITION:\windows\fonts`.

After that, install `zhfonts` for the context engine.

1. Get `zhfonts` from its [github page](#).
2. Copy the folder `zhfonts` into `texlive\\2014\\texmf-dist\\tex\\context\\third`.
3. Run `luatools --generate` to make `zhfonts` take effect, run `mtxrun --script fonts --reload` to reload the fonts.

Open Cygwin and now you should be able to use `git` and build the HPC sample documents.

4 Reference

- “gist: Configure ConTeXt environment after installing TeX” <https://gist.github.com/weijianwen/4a3794946982f4cc0b31>
- “TeXLive on Windows” <https://www.tug.org/texlive/windows.html>
- “zhfonts模块的用法” <http://garfileo.is-programmer.com/posts/23740>