

TUG-GUI-APPLICATIONS

RICHARD KOCH

1. GUI APPLICATIONS

This is the portion of the TUG documentation which deals with making the GUI Applications package. A clean package file will contain

- “apps” folder with programs and documentation to be installed in /Applications/TeX
- Files “buildPackage.sh” and “buildPackage1.sh”
- Files “Description.plist” and “Info.plist”
- “resources” folder containing various files
- “TeX-Source” folder containing LaTeX source files for the documentation in apps
- “TUG” folder with this document

2. OVERVIEW

This package installs BibDesk, LaTeXiT, TeX Live Utility, TeXShop, and TeXworks in /Applications/Utilities. It installs the spell checker Excalibur. It also installs brief documentation for new features in that year’s TeX Live. All these pieces are added to the apps folder, and then moved to root/Applications/TeX by buildPackage.sh. Notice that buildPackage.sh must be edited if file names change or documentation is added or removed.

3. PROGRAMS IN APPS

To save space, the “apps” directory in the Build documentation tree only contains documentation, but does not contain GUI applications. Thus before building, it is necessary to add Applications to this directory. The following is a list of these applications, and of web sites where the current versions can be obtained:

- BibDesk, available at <http://bibdesk.sourceforge.net/>
- Excalibur-4.0.7, available at <http://excalibur.sourceforge.net/>. This is a folder named “Excalibur-4.0.7” containing the Excalibur program, Excalibur-manual.pdf, gpl-2.0.pdf, Read Me.txt, and Standard Dictionary.
- LaTeXiT, available at http://chachatelier.fr/programmation/latexit_en.php
- TeX Live Utility, available at <http://mactlmgr.googlecode.com/>
- TeXShop, available at <http://pages.uoregon.edu/texshop/>
- TeXWorks, available at <http://tug.org/texworks/>. The folder contains two programs named TeXworks and TeXworks-SnowLeopard. These were just recently released. The first is a universal binary. The second has 64 bit code for Snow Leopard and higher.

4. BUILDING

The first step in building a new package is to update all the supplied programs. Bibdesk, TeX Live Utility, and TeXShop all use the Sparkle mechanism to update, so it suffices to read these programs and select the “Check for Updates...” menu. LaTeXiT may use the Sparkle mechanism as well, but in that case it seems to gray out the “Check for Updates...” menu when the program is up to date. To be sure, check

http://chachatelier.fr/programmation/latexit_en.php

TeXworks updates can be found on www.tug.org/texworks.

The Excalibur spell checker is available at <http://excalibur.sourceforge.net/>. Note that it is provided in a folder containing the version number. If a new version is available, be sure to revise buildPackage.sh so it will copy the new folder to root/Applications/TeX.

Then update the documentation. Note that source code for the documentation is in the TeX-Source folder.

Finally, build by

```
sudo sh buildPackage.sh
```

5. DOCUMENTATION

Since Apple’s installer cannot install in user directories, there is no convenient place for it to install documentation. But sometimes new features of a release need to be pointed out. In that case, we install such documents in /Applications/TeX.

In general, it is a bad idea to put extensive documentation in /Applications/TeX because TeX Live has extensive and up to date information. Thus documentation we add tends

to duplicate TeX Live documentation, and also tends not to be up to date. Currently, we provide the following documents:

- READ ME FIRST: This document is designed to help new users begin using the system
- LuaTeX-and-XeTeX: This document was added in 2010 to show users how to use system fonts in LuaTeX, and remind them that XeTeX has the same ability.
- Eps-and-PdfLaTeX: This was added to explain that TeX Live 2010 automatically converted eps files to pdf files when running pdfTeX.
- What is installed: An explanation of what is installed and where. Particularly useful when people want to remove things.

6. UPDATING FOR A NEW YEAR

Since the package name does not change from year to year, it is not necessary to edit “buildPackage1.sh”, “Description.plist”, or “Info.plist”. The only resource file that needs editing is “Welcome.rtf”, to reflect the release date.

7. ADJUSTING THE GUI-APPLICATIONS INSTALL PACKAGE

The folder resources/English.lproj contains some files which are shown to the user during installation. One of these files is a brief Welcome document, a second is a longer ReadMe file, and a third shows the License for the code. After the GUI-Applications install package is constructed, you may need to revise these documents. For example, the Welcome document contains the release date. Usually TeX Live authors are overly ambitious and predict a release several months earlier than it actually occurs, and you’ll need to change the release date from time to time.

A special script is provided to make changes in these support files without rebuilding everything. The script is called buildPackage1.sh. This script uses the already constructed root folder, and makes a new install package using this root, and possible new versions of Description.plist, Info.plist, and the documents in resources/English.lproj.