

TUG-TEXLIVE-2013

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1. BASICTEX-2013

This is the portion of the TUG documentation which deals with making the BasicTeX-2013.

Warning: It is important that the folders in which packages are built live on the hard disk rather than an external disk. Building constructs folders named “root” which are copies of material to be installed. This root folder and its contents are often owned by root. But material on an external drive is owned by the user instead.

A clean package file will contain

- The folder “About” with User Documentation about BasicTeX
- The file “buildPackage.sh”
- The files background.jpg, License.rtf, ReadMe.rtf, and Welcome.rtf
- “scripts” folder, containing the files “Description.rtf”, “postinstall”, “setloginpath”, “setmanpath”, “texdist”, “TeXDist-description.rtf”, “TeXDistVersion”, “TeXManPath”, “TeXPath”, and a folder named “PrefPane” containing “info.plist” and the “TeX Distribution” preference pane
- BasicTeXBuild, the PackageMaker “project” which builds the BasicTeX install package.
- “TUG” folder with this document

2. UPDATING FOR A NEW YEAR

To update the package for a new year, edit “buildPackage.sh” to reflect the new year. Also update License.rtf, ReadMe.rtf, and Welcome.rtf if necessary. Edit the “postflight” script in “scripts” to reflect the new year. For instance, to change from 2011 to 2013, use Search and Replace to change the many, many occurrences of 2011 to 2013 in this file. Finally edit the BasicTeXBuild project file for Packagemaker as described below.

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For instance, to change from 2011 to 2013, use Search and Replace to change the many, many occurrences of 2011 to 2013 in these files.

Note that the “About” folder in the documentation contains a detailed description of the logic behind the package.

3. CREATING THE PACKAGE

To construct the package, begin by renaming `/usr/local`. Then install TeXLive using the TeX Live install script. Select both universal binaries and `x86_64` binaries. Select the installation scheme “TeX Live Small Scheme”.

Under Options, check “use letter size” and uncheck everything else. In particular, uncheck “make format files.”

Change `TEXDIR` to `/usr/local/texlive/2013basic`

Change `TEXMFHOME` to `$HOME/Library/texmf`

Change `TEXMFVAR` to `$HOME/Library/texlive/2013basic/texmf-var`

Change `TEXMFCONFIG` to `$HOME/Library/texlive/2013basic/texmf-config`

Then install.

After these steps, the “root” directory in the BasicTeX folder is built using the commands

```
sudo sh buildPackage.sh
```

4. BUILDING THE FINAL INSTALL PACKAGE WITH PACKAGEMAKER

Now edit `BasicTeXBuild`, the Packagemaker project file, using the GUI interface, as follows.

- (1) Click the top item on the left. The right side will change to a view with three tabs. First select the Configuration tab. Edit so
 - (a) Title: BasicTeX-2013
 - (b) User Sees: Easy Install Only
 - (c) Install Destination: System volume
 - (d) Certificate: Leave this blank. You might think that putting a certificate name here would correctly sign the package, but experiments show that it does not. The package needs to be signed after it is constructed.
 - (e) Description: Empty

- (2) The Requirements and Actions tab entries for the top item can be left blank
- (3) Click the entry BasicTeX-2013 in the Contents section on the left. The right side will change to a view with two tabs. Select the Configuration tab. Edit so
 - (a) Choice Name: BasicTeX-2013
 - (b) Identifier: choice1
 - (c) Initial State: Selected and Enabled
 - (d) Destination: Leave Blank
 - (e) Tooltip: Leave Blank
 - (f) Description: Leave Blank
- (4) The Requirements tab entries for this contents item can be left blank
- (5) Open the BasicTeX-2013 entry in the bottom left column. This item should show a “2013basic” directory, obtained by dragging root/user/local/texlive/2013basic to the left column. The right side will change to a view with four tabs. The item under the Components tab can be left blank. It is not necessary to edit the items under the Contents tab. The items under the Configuration tab should be edited as follows:
 - (a) Install: root/usr/local/texlive (The item on the right should have selected “Relative To Project”)
 - (b) Destination: /usr/local/texlive (The item on the right should have selected “Relative To Project”)
 - (c) Do not check “Allow custom location”
 - (d) Patch: No patch root selected
 - (e) Package Identifier: org.tug.mactex.basictex2013
 - (f) Package Version: 1.0
 - (g) Restart Action: None
 - (h) Check “Require admin authentication”
 - (i) PackageLocation: Self-Contained

The items under the Scripts tab should be edited to read

- (a) Scripts directory: scripts (The item on the right should have selected “Relative To Project”)
- (b) Preinstall: Leave Blank

- (c) Postinstall: scripts/postinstall (The item on the right should have selected “Relative To Project”)

After verifying all these items, build the install package by clicking the “Build” icon. When asked to select a name, choose “BasicTeX-2013-Temp”. After the package has been made, sign it by executing the following line in Terminal:

```
sh signPackage.sh
```

This script simply calls

```
productsign --sign "Developer ID Installer: Richard Koch" old-name new-name
```

where “old-name” is BasicTeX-2013-Temp.pkg and “new-name” is BasicTeX-2013.pkg