Building and releasing Xpose

1. Make sure the date and version number in DESCRIPTION are updated
2. Update github repository
3. Run tests (test package in r-studio) when tests are available (not yet)
4. **Check the package:** run the “check” command in the build tab of RStudio (uncheck “use devtools package functions” in the project options).
   1. Check for notes/warnings/errors in the check output. Fix and rerun until no more notes/warnings/errors occur.
   2. Note: if you don’t have an internet connection then run without the  
      ‘--as-cran’ option in the script. Make sure to run with this option before submitting to CRAN.
   3. ALTERNATIVE: Using current directory at the dos prompt:

R CMD build ..

R CMD check --as-cran xpose4\_version.tar.gz

1. **Build final source version:** run the “build source package” command in the build tab of RStudio:
   1. ALTERNATIVE:

R CMD build ..

1. Submit to CRAN: <http://cran.r-project.org/banner.shtml#submitting>
2. After confirmation that package is accepted Add tag for version number on github. Send out messages on nmusers, pop\_design and put on website and on twitter.

## -------------- Binaries ----------------

To make a binary file for MAC

R CMD INSTALL --build PopED\_version.tar.gz

Create Windows binary packages by using a virtual box

1. Make sure the latest rtools and R are installed and paths are present (DOS> PATH). Use set\_path.bat to set paths for just one session if you like.
2. Run on a DOS window with administrator privileges (shift right click on CMD icon to create with admin rights):

R CMD INSTALL --build PopED\_version.tar.gz

# Old stuff – potentially useful

# Before everything else

1. Make sure that the changelog.txt is updated
2. Check in and update on CVS
   1. If a cvs version is already checked in:
      1. Go to main directory of repository (i.e. “xpose4”)
      2. Type: *cvs -q update* (use your sourceforge login password when asked)
      3. To commit: *cvs commit –m “text” file*
      4. Add files you don’t want in the csv to the “.cvsgnore” file of each directory (if not there create it)
   2. Helpful resources:
      1. <http://cvsbook.red-bean.com/cvsbook.html>
3. Change $version\_number in make.xpose.pl
4. Run

*perl make.xpose.pl*

# For xpose4combined

1. Combine packages into one super-package!

*R --vanilla --slave < combine.packages.R*

Make sure that TRUE is returned for all commands

1. Run

*sh make\_combined.sh*

Check for notes/warnings/errors in the check output. Fix and rerun until no more notes/warnings/errors occur.

Note: if you don’t have an internet connection then run without the  
‘--as-cran’ option in the script. Make sure to run with this option before submitting to CRAN.

1. Install to R and create OS X binary package:

*sh install\_combined.sh*

1. Create Windows binary packages by using a virtual box
   1. Make sure the latest rtools and R are installed and paths are present (DOS> PATH). Use set\_path.bat to set paths for just one session if you like.
   2. NOT NEEDED! Copy install\_combined.bat and xpose4\_\*.tar.gz to a folder on the virtual box
   3. Run on a DOS window with administrator privileges (shift right click on CMD icon to create with admin rights):

*install\_combined.bat*

* 1. *Copy created zip files back to the MAC folders.*

# For xpose4Data (and xpose4generic, xpos4specific, xpose4classic, xpose4)

1. Run

*sh make\_data.sh*

Check for notes/warnings/errors in the check output. Fix and rerun until no more notes/warnings/errors occur.

Note: if you don’t have an internet connection then run “” without the  
‘--as-cran’ option in the script. Make sure to run with this option before submitting to CRAN.

1. Install to R and create OS X binary package:

*sh install\_data.sh*

1. Repeat using “generic”, “specific”, “classic” and “main” (in that order) instead of “data” in the commands of the above steps.
2. Create Windows binary packages by using a virtual box
   1. Make sure the latest rtools and R are installed and paths are present (DOS> PATH). Use set\_path.bat to set paths for just one session if you like.
   2. Copy install\_\*.bat and xpose4\*\_\*.tar.gz to a folder on the virtual box
   3. Run on a DOS window with administrator privileges (shift right click on CMD icon to create with admin rights):

*install\_data.bat*

*install\_generic.bat*

*install\_specific.bat*

*install\_classic.bat*

*install\_main.bat*

* 1. *Copy created zip files back to the MAC folders.*

# To release the files

1. Release on CRAN. Read “Writing R Extensions” in the R help.
2. Upload the release files to sourceforge (\*.zip, \*.tar.gz, \*.tgz).
3. on sourceforge go to admin/file releases
   1. click on add release to Xpose4 and follow instructions
   2. go to download/default and change the default download files by clicking on edit
   3. add admin/news about the new release
4. change the website to reflect changes in release
   1. open the website in dreamweaver
   2. edit downloads page to reflect new release name
   3. Update the news on the website
      1. Run xport.sh on joe
      2. Copy projhtml.cache from joe to the website folder
   4. put the edited files on the webserver.
5. Update the version on the cluster

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# Old stuff

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# Quick build

1. change $title, $version\_number and $date to the correct values in ‘make.xpose.pl’ then run:

*perl make.xpose.pl*

1. Make sure the file paths are correct in *set\_path.bat*
2. Run

*set\_path.bat*

1. Run

*build.bat*

or

*build\_and\_install.bat*

1. rename file from

‘xpose4\_%version\_number%.zip’

to

‘xpose4\_%version\_number%\_win32.zip’

# Full build

1. check in latest version of files to CVS on sourceforge
2. change $title, $version\_number and $date to the correct values in *make.xpose.pl*
3. Run:

*perl make.xpose.pl*

1. Make sure the file paths are correct in *set\_path.bat*
2. Run

*set\_path.bat*

1. run

*check.bat*

1. look for and fix WARNINGS in ./xpose4.Rcheck/00check.log
2. run

*perl make.xpose.pl*

1. run

*build.bat*

or

*build\_and\_install.bat*

1. test that the fixes have worked
2. run

*perl make.xpose.pl*

1. run

*build\_linux\_src.bat*

1. run

*compress.bat*

1. rename file from

‘xpose4\_%version\_number%.zip’ to

‘xpose4\_%version\_number%\_win32.zip’

1. Upload the release files (\*win32.zip, \*src.zip, \*.tar.gz). Further information regarding this process may be found in [Guide to the File Release System](http://sourceforge.net/docman/display_doc.php?docid=6445&group_id=1).
   1. I recommend the web-upload process
2. on sourceforge go to admin/file releases
   1. click on add release to Xpose4 and follow instructions
   2. go to download/default and change the default download files by clicking on edit
   3. add admin/news about the new release
3. change the website to reflect changes in release
   1. open the website in dreamweaver
   2. edit downloads page to reflect new release name
   3. Update the news on the website
      1. Run xport.sh on joe
      2. Copy projhtml.cache from joe to the website folder
   4. put the edited files on the webserver.
4. Update the version on the cluster

# Possible additions

1. .Rbuildignore to ignore stuff. Don’t need to delete .old or .OLD, perhaps should ignore .new or .test as well. And .cvsignore