

## INSTALLING R AND RSTUDIO

Installing R and Rstudio should both be relatively painless processes. If needed, check in with course staff in office hours for help.

### Installing R

Go to <https://cran.r-project.org/mirrors.html> and find the mirror site closest to you.

For students in New England, I'm guessing the CMU mirror will be the closest:

<http://lib.stat.cmu.edu/R/CRAN/>

Once there, you'll be asked to select which operating system you run:

**Download and Install R**  
Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Click on the appropriate link.

Next, find the package relevant to the version of your operating system:

#### [R-3.4.1.pkg](#)

MD5-hash: 92126672ea4a9dbce28fc3258cf5d3be  
SHA1-hash: 4138852c052a2056ce648d886b9b47d8a514b762  
(ca. 61MB)

**R 3.4.1** binary for OS X 10.11 (El Capitan) and higher, signed package. Contains R 3.4.1 framework, R.app GUI 1.70 in 64-bit for Intel Macs, Tcl/Tk 8.6.6 X11 libraries and Texinfo 5.2. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the `tcltk` R package or build package documentation from sources.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) to be installed since it is no longer part of OS X. Always re-install XQuartz when upgrading your OS X to a new major version.

**Important:** this release uses Clang 4.0.0 and GNU Fortran 6.1, neither of which is supplied by Apple. If you wish to compile R packages from sources, you will need to download and install those tools - see the [tools](#) directory.

#### [R-3.3.3.pkg](#)

MD5-hash: 893ba010f303e666e19f86c4800f1fbf  
SHA1-hash: 5ac71b000b15805f95f38c08c45972d51ce3d027  
(ca. 71MB)

**R 3.3.3** binary for Mac OS X 10.9 (Mavericks) and higher, signed package. Contains R 3.3.3 framework, R.app GUI 1.69 in 64-bit for Intel Macs, Tcl/Tk 8.6.0 X11 libraries and Texinfo 5.2. The latter two components are optional and can be omitted when choosing "custom install", it is only needed if you want to use the `tcltk` R package or build package documentation from sources.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) to be installed since it is no longer part of OS X. Always re-install XQuartz when upgrading your OS X to a new major version.

#### [R-3.2.1-snowleopard.pkg](#)

MD5-hash: 58fe9d01314d9cb75f80ccf914f665  
SHA1-hash: b6fe91db12bac22a324f0cb51c7efa9063ecce0d0  
(ca. 68MB)

**R 3.2.1** legacy binary for Mac OS X 10.6 (Snow Leopard) - 10.8 (Mountain Lion), signed package. Contains R 3.2.1 framework, R.app GUI 1.66 in 64-bit for Intel Macs.

This package contains the R framework, 64-bit GUI (R.app), Tcl/Tk 8.6.0 X11 libraries and Texinfo 5.2. GNU Fortran is **NOT** included (needed if you want to compile packages from sources that contain FORTRAN code) please see [the tools directory](#).

NOTE: the binary support for OS X before Mavericks is being phased out, we do not expect further releases!

For most of you, I suspect version 3.4.1 for OS X is the desired package. Open the downloaded file and proceed through the installer. R installation should be complete.

## Installing RStudio

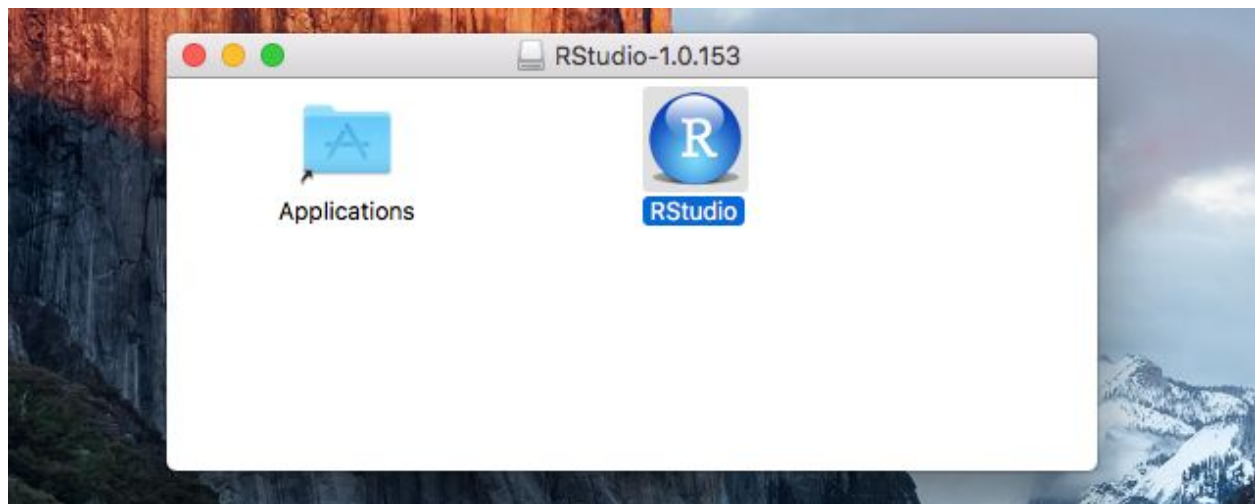
While you don't *need* to install RStudio to use R, life is better with RStudio (both for writing R scripts *and* writing LaTeX).

Go to <https://www.rstudio.com/products/rstudio/download/>, scroll down the page, and look for the installer for your operating system. Should look like the below:

### Installers for Supported Platforms

Installers	Size	Date	MD5
RStudio 1.0.153 - Windows Vista/7/8/10	81.9 MB	2017-07-20	b3b4bbc82865ab105c21cb70b17271b3
RStudio 1.0.153 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-07-20	8773610566b74ec3e1a88b2fdb10c8b5
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	85.5 MB	2017-07-20	981be44f91fc07e5f69f52330da32659
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	91.7 MB	2017-07-20	2d0769bea2bf6041511d6901alc69c3
RStudio 1.0.153 - Ubuntu 16.04+/Debian 9+ (64-bit)	61.9 MB	2017-07-20	d584cbab01041777a15d62cbef69a976
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-07-20	8dfee96059b05a063c49b705eca0ceb4
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	85.7 MB	2017-07-20	16c2c8334f961c65d9bfa8fb813ad7e7

For those running OS X, finishing installation is as simple as opening the downloaded disk image, and transferring RStudio to your applications folder:



For anyone not working on OS X, if you have trouble with either the R or RStudio installation, seek out a member of the course staff and ask for help.