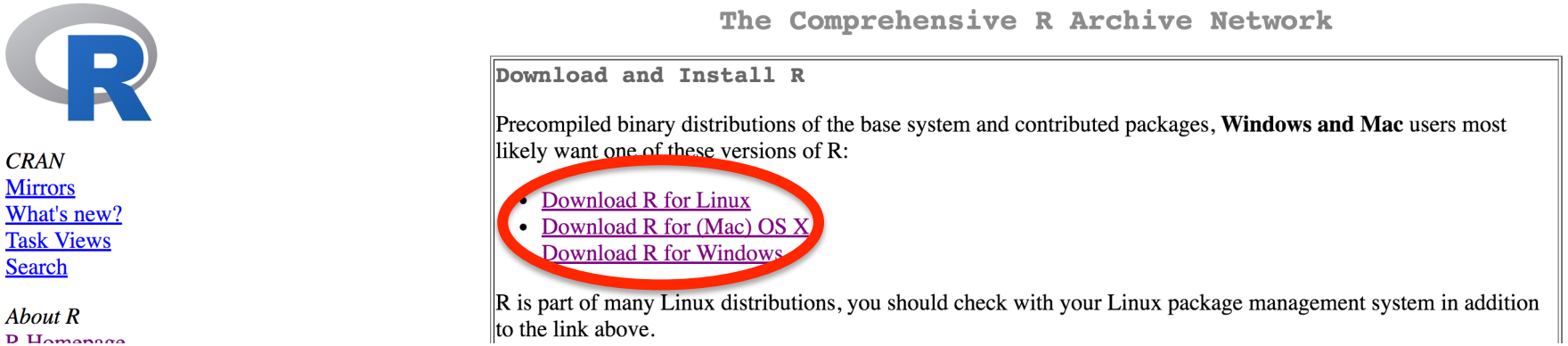
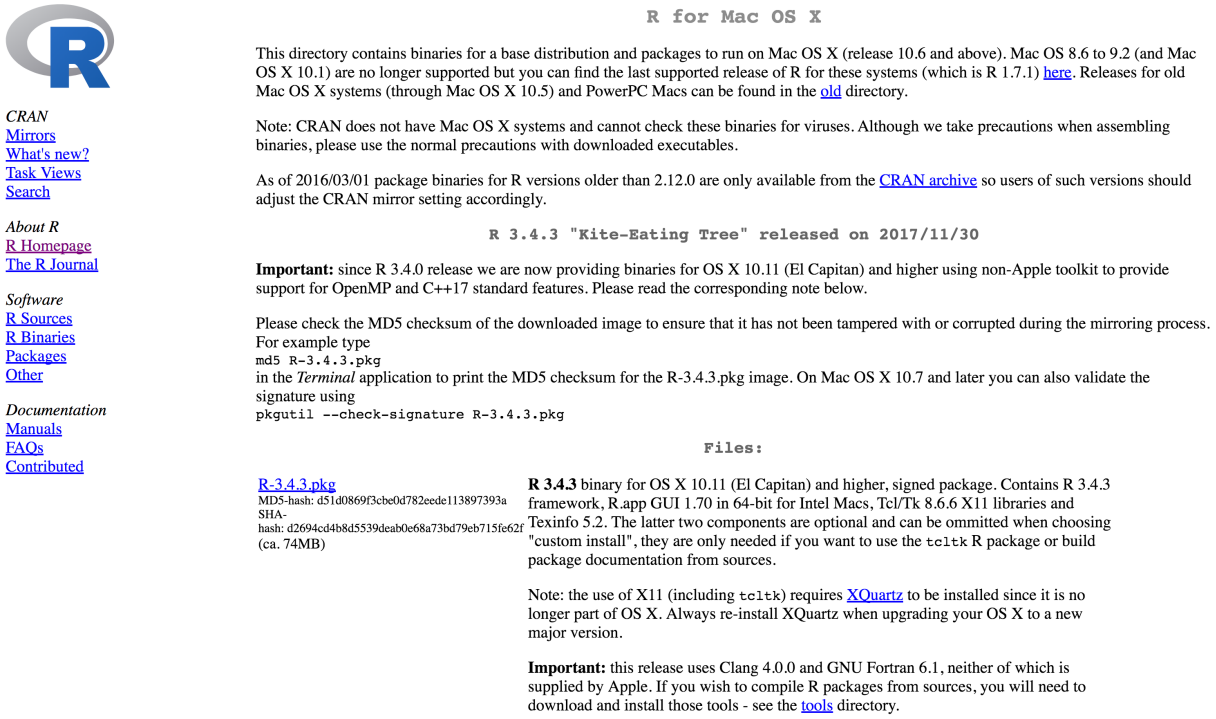
# Installing R

- https://cran.rstudio.com/



# Installing R (Macs)

- https://cran.rstudio.com/



*CRAN*
Mirrors
What's new?
Task Views
Search

*About R*
R Homepage
The R Journal

*Software*
R Sources
R Binaries
Packages
Other

*Documentation*
Manuals
FAQs
Contributed

**R for Mac OS X**

This directory contains binaries for a base distribution and packages to run on Mac OS X (release 10.6 and above). Mac OS 8.6 to 9.2 (and Mac OS X 10.1) are no longer supported but you can find the last supported release of R for these systems (which is R 1.7.1) here. Releases for old Mac OS X systems (through Mac OS X 10.5) and PowerPC Macs can be found in the old directory.

Note: CRAN does not have Mac OS X systems and cannot check these binaries for viruses. Although we take precautions when assembling binaries, please use the normal precautions with downloaded executables.

As of 2016/03/01 package binaries for R versions older than 2.12.0 are only available from the CRAN archive so users of such versions should adjust the CRAN mirror setting accordingly.

**R 3.4.3 "Kite-Eating Tree" released on 2017/11/30**

**Important:** since R 3.4.0 release we are now providing binaries for OS X 10.11 (El Capitan) and higher using non-Apple toolkit to provide support for OpenMP and C++17 standard features. Please read the corresponding note below.

Please check the MD5 checksum of the downloaded image to ensure that it has not been tampered with or corrupted during the mirroring process. For example type
`md5 R-3.4.3.pkg`
in the *Terminal* application to print the MD5 checksum for the R-3.4.3.pkg image. On Mac OS X 10.7 and later you can also validate the signature using
`pkgutil --check-signature R-3.4.3.pkg`

**Files:**

R-3.4.3.pkg
MD5-hash: d51d0869f3cbe0d782eede113897393a
SHA-hash: d2694cd4b8d5539deab0e68a73bd79eb715fe62f
(ca. 74MB)

**R 3.4.3** binary for OS X 10.11 (El Capitan) and higher, signed package. Contains R 3.4.3 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 ommitted 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.

- Make sure you download the appropriate version for your OS (demo how to check OS)
- Open the downloaded file and follow the instructions
- XQuartz isn't immediately necessary, but I recommend downloading it anyway

# Installing R (Windows)

- https://cran.rstudio.com/

*CRAN*
Mirrors
What's new?
Task Views
Search

*About R*
R Homepage
The R Journal

*Software*
R Sources
R Binaries
Packages
Other

*Documentation*
Manuals
FAQs
Contributed

**R for Windows**

Subdirectories:

| | |
|---|---|
| base | Binaries for base distribution. This is what you want to **install R for the first time**. |
| contrib | Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on third party software available for CRAN Windows services and corresponding environment and make variables. |
| old contrib | Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges). |
| Rtools | Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself. |

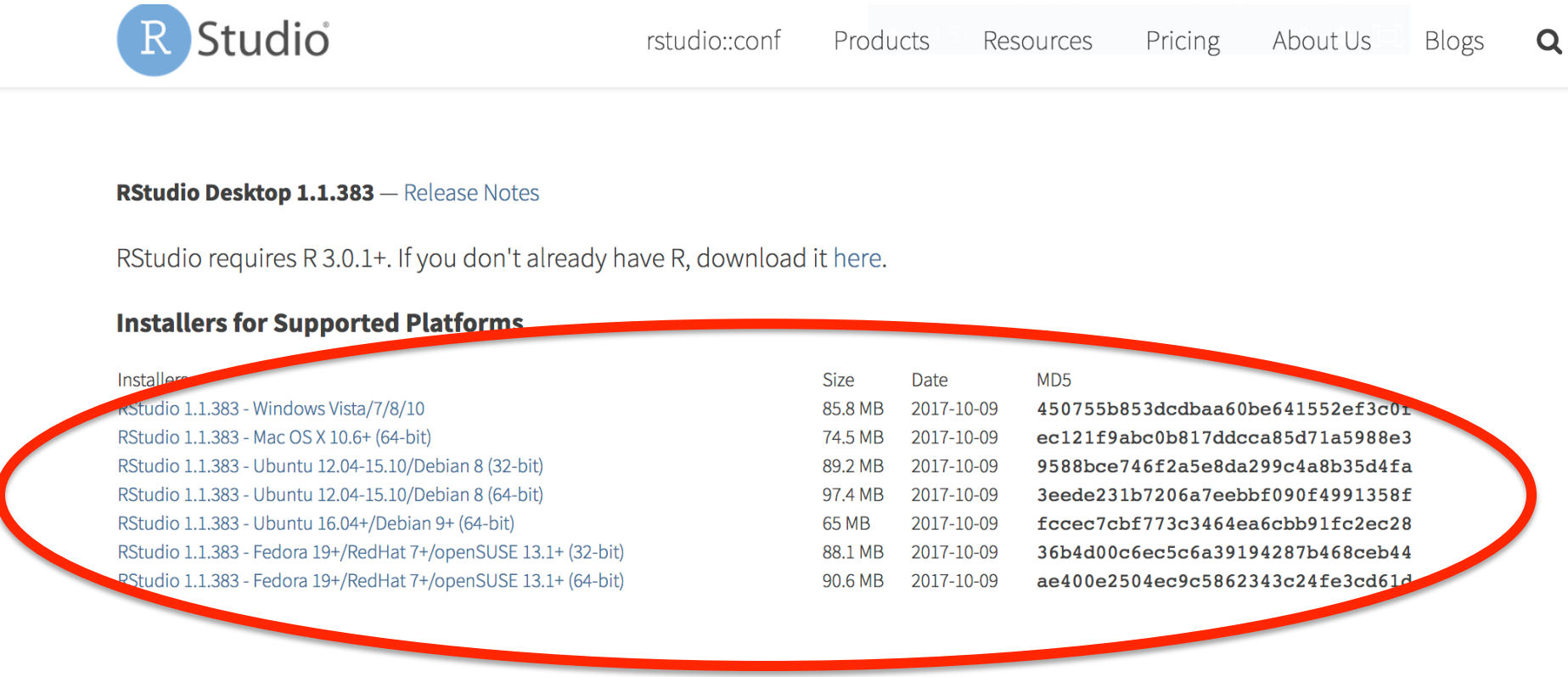
Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the R FAQ and R for Windows FAQ.

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

# Installing RStudio

- https://www.rstudio.com/products/rstudio/download/#download



# Installing Xcode (only for Mac Users)

- https://support.rstudio.com/hc/en-us/articles/200486498-Package-Development-Prerequisites

1. Download and install XCode from the Mac AppStore:
   http://itunes.apple.com/us/app/xcode/id497799835?mt=12
2. Within XCode go to Preferences : Downloads and install the Command Line Tools

Or alternatively (for a smaller download size):

1. Register as an Apple Developer (free) here:
   https://developer.apple.com/programs/register/
2. Download the Command Line Tools for XCode appropriate for the version of OS X you are running from here: https://developer.apple.com/downloads/

# A brief overview of RStudio