

Software Installation

Please ensure that you have the below software installed on the laptop you will be bringing with you to the workshop, if you do not have them already installed. Should you have problems with the installation of any of the software, we recommend you contact your local IT support in the first instance. If you do not have IT support or are still having problems getting the software installed on your laptop, please inform us before the workshop so we can help set up your laptops prior to the workshop.

R/RStudio

Many of the analyses we have you do in labs are easily done in the R software environment. RStudio is a GUI that makes working with R a little smoother, especially if you don't have a lot of hard-core programming experience. Please ensure that you have downloaded R before you have downloaded RStudio.

R download (choose a mirror, it doesn't matter which, by clicking on any one of the URLs below the country names): <https://cran.r-project.org/mirrors.html>

[This will take you to the following page:](#)

The screenshot shows the CRAN website with the following content:

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.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2017-11-30, Kite-Eating Tree) [R-3.4.3 tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

What are R and CRAN?

R is 'GNU S', a freely available language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques: linear and nonlinear modelling, statistical tests, time series analysis, classification, clustering, etc. Please consult the [R project homepage](#) for further information.

CRAN is a network of ftp and web servers around the world that store identical, up-to-date, versions of code and documentation for R. Please use the CRAN [mirror](#) nearest to you to minimize network load.

Submitting to CRAN

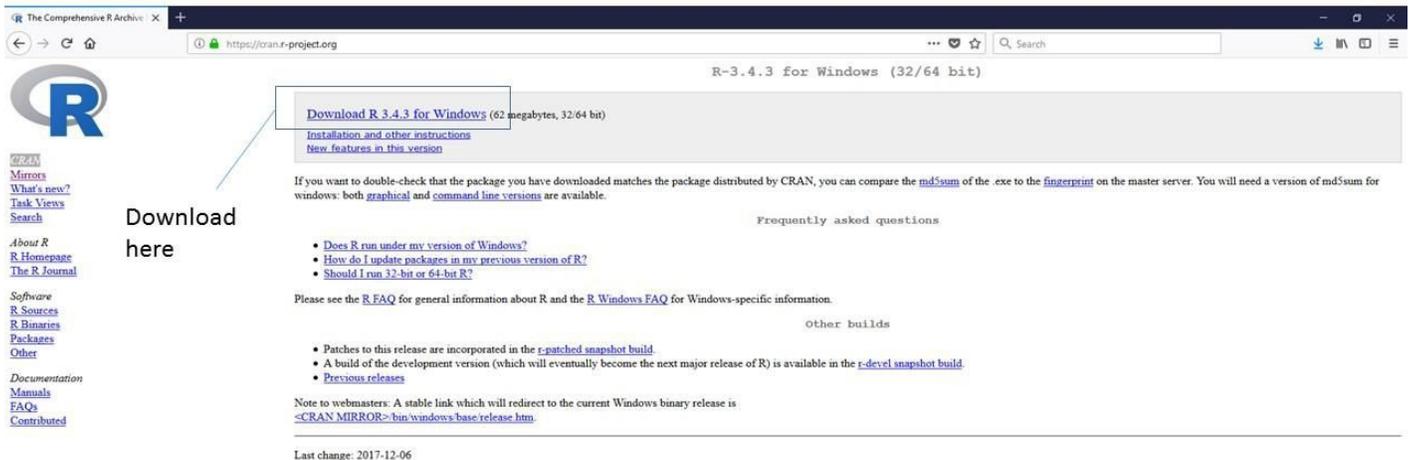
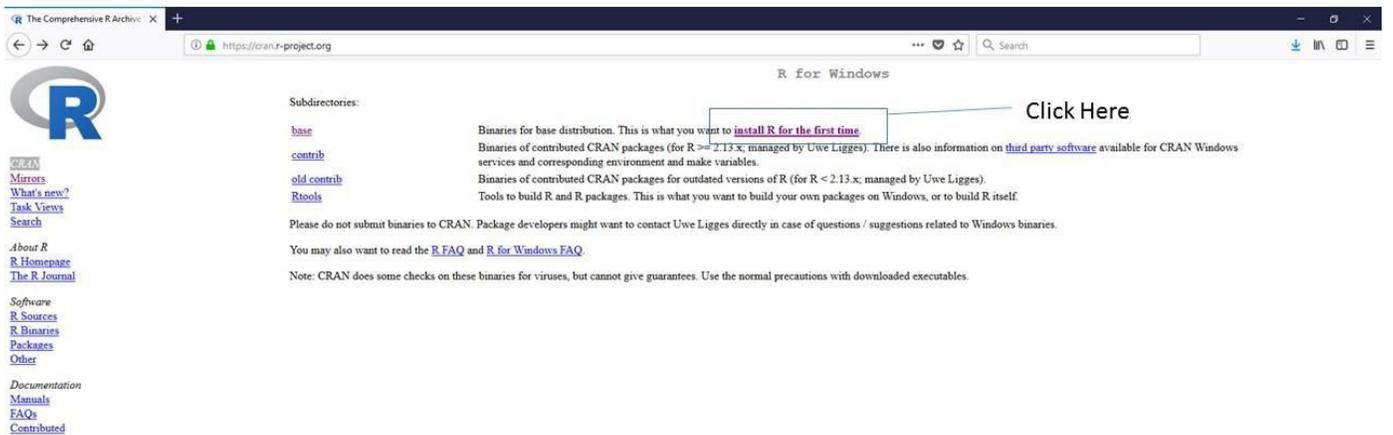
To "submit" a package to CRAN, check that your submission meets the [CRAN Repository Policy](#) and then use the [web form](#).

If this fails, upload to [ftp://CRAN.R-project.org/incoming/](#) and send an email to CRAN-submissions@R-project.org following the policy. Please do not attach submissions to emails, because this will clutter up the mailboxes of half a dozen people.

Note that we generally do not accept submissions of precompiled binaries due to security reasons. All binary distribution listed above are compiled by selected maintainers, who are in charge for all binaries of their platform, respectively.

Choose the appropriate option based on the operating system of the computer you will be using i.e. Mac, Windows or Linux. For Mac users please select the most recent version of R for installation.

For windows users, on the next page click on the text “ install R for the first time” and this will take you to the “Download R” button



This will produce an executable file that you should save to your downloads folder that you should click on to execute the installation of the software. When installing, please use the default options that are suggested in the set up window. This will produce two icons on your desktop "Rx64 3.4.3" and "Ri386 3.4.3". Use Rx64 3.4.3 if you are running 64bit Windows or Ri386 3.4.3 if you are using 34bit Windows.

RStudio download (please choose the free version – RStudio Desktop Open Source Licence):
<https://www.rstudio.com/products/rstudio/>

Open Source Edition

- Access RStudio locally
- Syntax highlighting, code completion, and smart indentation
- Execute R code directly from the source editor
- Quickly jump to function definitions
- View content changes in real-time with the Visual Markdown Editor
- Easily manage multiple working directories using projects
- Integrated R help and documentation
- Interactive debugger to diagnose and fix errors
- Extensive package development tools

Overview

Support Community forums only

License AGPL v3

Pricing Free

[DOWNLOAD RSTUDIO DESKTOP](#)

RStudio Desktop Pro

All of the features of open source; plus:

- A commercial license for organizations not able to use AGPL software
- Access to priority support
- RStudio Professional Drivers
- Connect directly to your RStudio Workbench instance remotely

Priority Email Support

- 8 hour response during business hours (ET)

[RStudio License Agreement](#)

\$995/year

[PURCHASE](#) | [CONTACT SALES](#)

[DOWNLOAD FREE RSTUDIO DESKTOP PRO TRIAL](#)

Source Code

A tarball containing source code for RStudio v1.1.423 can be downloaded from [here](#)



RStudio Desktop v2021.09.1+372 - [Release Notes](#)

1. Install R. RStudio requires R 3.0.1+ [↗](#).
2. Download RStudio Desktop. Recommended for your system:

[DOWNLOAD RSTUDIO FOR WINDOWS](#)
2021.09.1+372 | 156.89MB

Requires Windows 10 (64-bit)

All Installers

Linux users may need to [import RStudio's public code-signing key](#) prior to installation, depending on the operating system's security policy. RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an [older version of RStudio](#).

OS	Download	Size	SHA-256
Windows 10	RStudio-2021.09.1-372.exe	156.89 MB	1c3d2725
macOS 10.14+	RStudio-2021.09.1-372.dmg	203.00 MB	dae6e40
Ubuntu 18/Debian 10	rstudio-2021.09.1-372-amd64.deb	117.89 MB	921b4223
Fedora 19/Red Hat 7	rstudio-2021.09.1-372-x86_64.rpm	133.83 MB	f1be5848
Fedora 28/Red Hat 8	rstudio-2021.09.1-372-x86_64.rpm	133.85 MB	ba368708
Debian 9	rstudio-2021.09.1-372-amd64.deb	118.10 MB	697cd465

This will produce an executable file that you should save to your downloads folder that you should click on to execute the installation of the software. When installing, please use the default options that are suggested in the set up window.