DS 2001: R and RStudio Installation

Introduction

Note that, for now, I assume students have a laptop or desktop computer on which they can install programs. We will be installing R and RStudio. This should all work on a Mac or Windows machine.

Let's get started!

1. Getting your environment ready

R is an open source statistical analysis/computing environment. R's rapid growth in use places it among the most popular statistical analysis software. Much of R's popularity stems from it being open source (and free!) together with its extensible nature. As a programming language, R has become prominent in recent years as a tool for performing high level analytics. As a programming language, R has begun borrowing many tools from the programming world. One of the most prominent among them is R Studio, a free, open source and user-friendly integrated development environment (IDE). An integrated development environment is a tool designed specifically for developing code and analyses using a computer language. In the case of RStudio, the environment is specifically designed for developing "data products" using R.

For this mini course, we'll be using RStudio for creating open and re-usable code for statistical analysis. You'll need to:

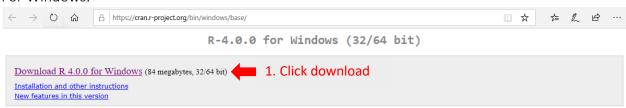
- Install R for Windows and R for Mac
- Install RStudio on your computer.

2. Install R

- i. Click link: R for Windows (or R for Mac) [download most recent R]
- ii. Click download -> Click Save

Note that the most recent R version may be different.

For Windows:



If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the md5sum of the .exe to the fingerprint on the master server. You will need a version of md5sum for windows: both graphical and command line versions are available

Frequently asked questions

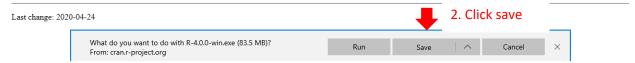
- Does R run under my version of Windows?
- How do I update packages in my previous version of R?
 Should I run 32-bit or 64-bit R?

Please see the R FAQ for general information about R and the R Windows FAQ for Windows-specific information.

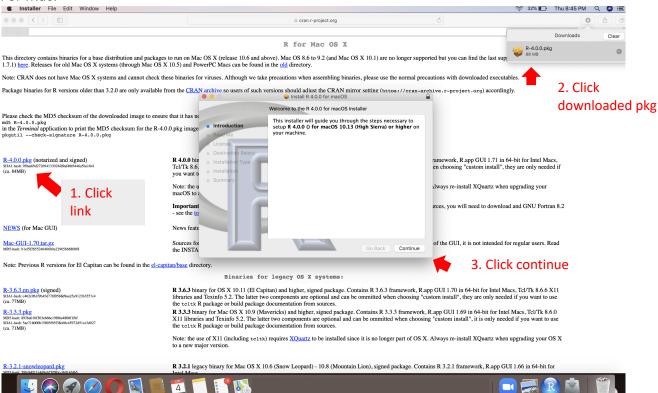
Other builds

- Patches to this release are incorporated in the r-patched snapshot build.
- A build of the development version (which will eventually become the next major release of R) is available in the r-devel snapshot build.
- Previous releases

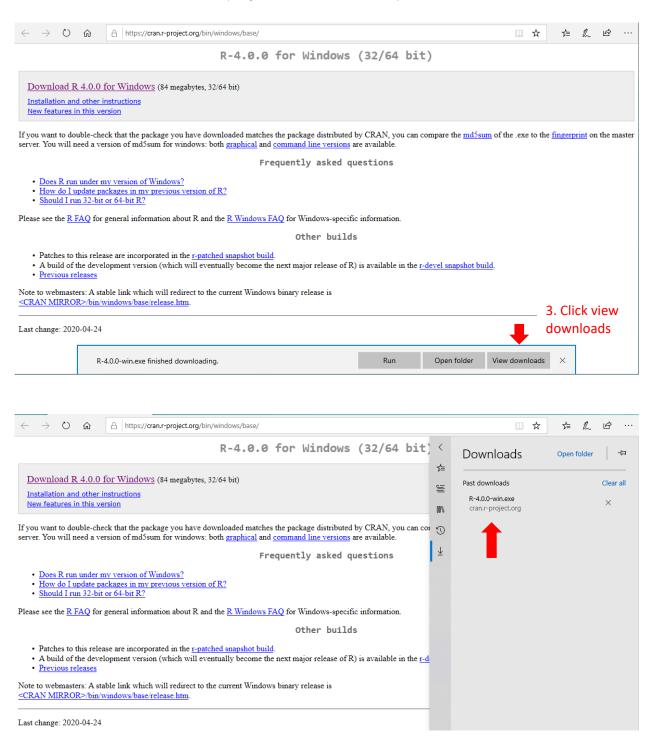
Note to webmasters: A stable link which will redirect to the current Windows binary release is <CRAN MIRROR>/bin/windows/base/release.htm.



For Mac:



iii. Click view downloads (or go to downloads folder) and click R-4.0.0-win.exe

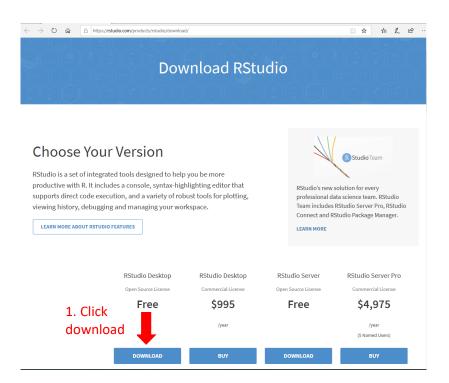


iv. Follow the instructions that appear on your screen for both Windows and Mac

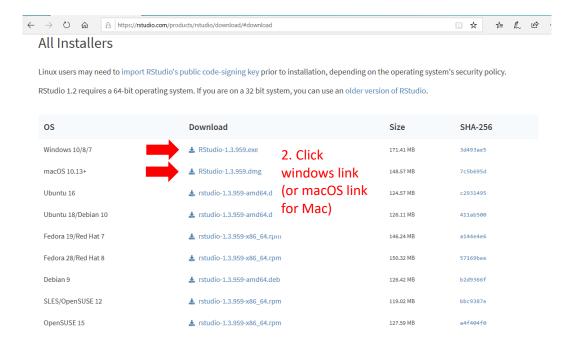
3. Install RStudio

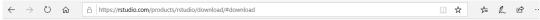
i. Click link: RStudio

ii. Click FREE download



iii. Click Windows or MacOS link -> Click Save





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 1.2 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 10/8/7	♣ RStudio-1.3.959.exe	171.41 MB	3d493ae5
macOS 10.13+	& RStudio-1.3.959.dmg	148.57 MB	7c5b695d
Ubuntu 16		124.57 MB	c2931495
Ubuntu 18/Debian 10		126.11 MB	411ab500
Fedora 19/Red Hat 7	≛ rstudio-1.3.959-x86_64.rpm	146.24 MB	a144e4e6
Fedora 28/Red Hat 8		150.32 MB	57169bee
Debian 9	♣ rstudio-1.3.959-amd64.deb	126.42 MB	b2d9366f
SLES/OpenSUSE 12	★ rstudio-1.3.959-x86_64.rpm	[±] 3. Click	save
OpenSUSE 15		12	
https://download1.rstudio.org/desktop/xenial/amd64/rs What do you want to d From: download1.rstud	Run Save ^	Cancel X	

iv. Click view downloads (or go to the downloads folder) and click RStudio-1.3.959.exe

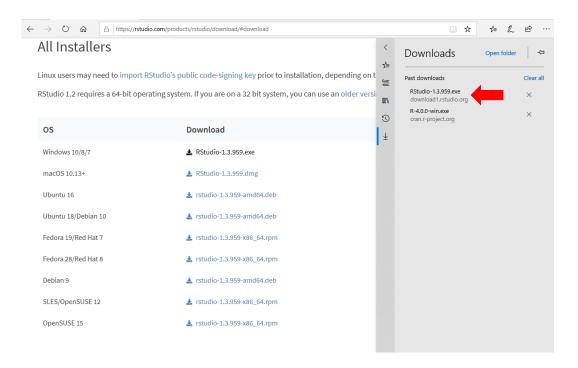


All Installers

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Ubuntu 18/Debian 10		126.11 MB	411ab500
Fedora 19/Red Hat 7		146.24 MB	a144e4e6
Fedora 28/Red Hat 8	▲ rstudio-1.3.959-x86_64.rpm	150.32 MB	57169bee
Debian 9	★ rstudio-1.3.959-amd64.deb	126.42 MB	b2d9366f
SLES/OpenSUSE 12	▲ rstudio-1.3.959-x86_64.rpm	119.02 MB	4. Click vie
OpenSUSE 15	≛ rstudio-1.3.959-x86_64.rpm	127.59 MB	downloads
RStudio-1.3.959.ex	e finished downloading.	Run Open folder	View downloads X



v. Follow the instructions that appear on your screen