DS 3003: R and RStudio Installation

Introduction

Welcome to DS 3003: Communicating with Data!

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 <u>popular statistical analysis software</u>. 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 <u>R</u> <u>Studio</u>, a free, open source and user-friendly <u>integrated development environment</u> (<u>IDE</u>). 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**.

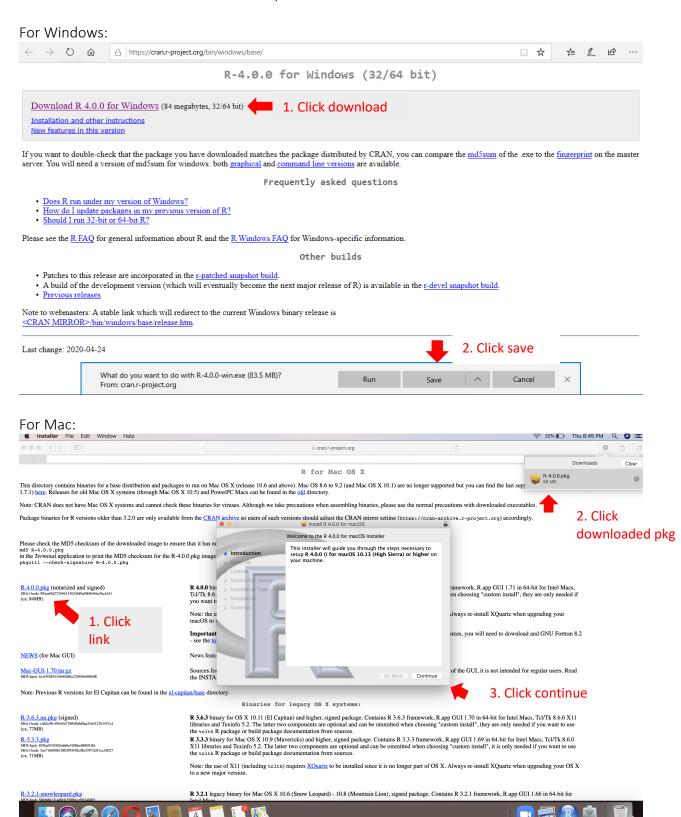
For this mini course, we'll be using RStudio for creating open and re-usable code for statistical analysis. You'll need to:

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

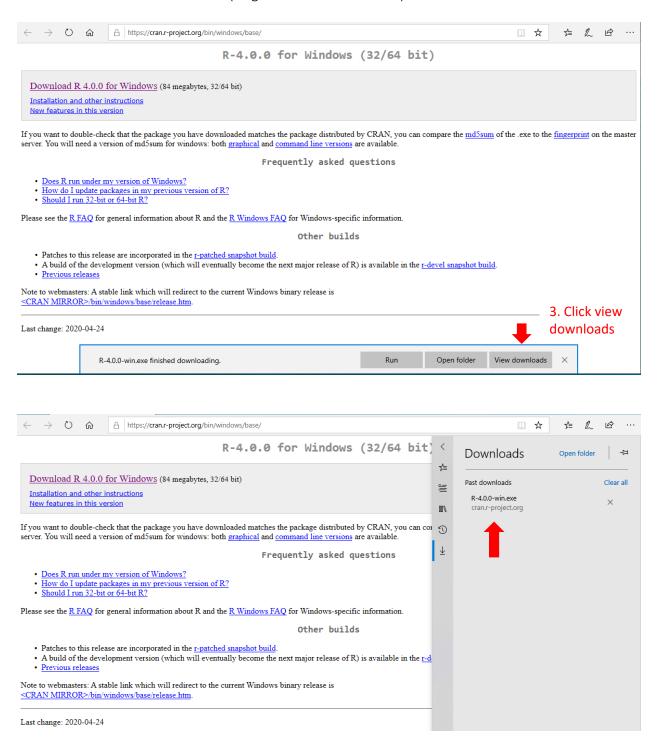
2. Install R

- 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.



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

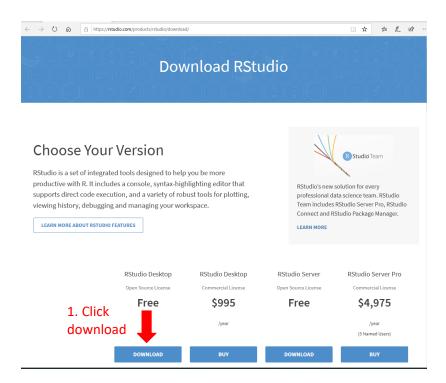


iv. Follow the instructions that appear on your screen for both Windows and Mac

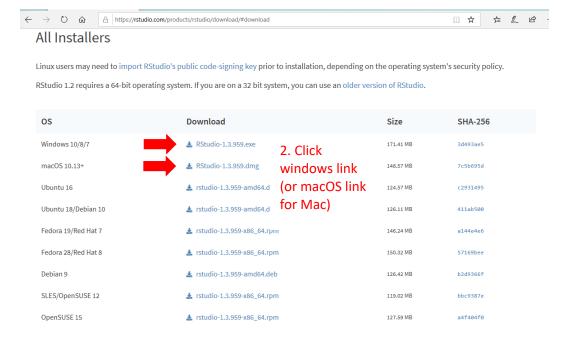
3. Install RStudio

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	★ rstudio-1.3.959-amd64.deb	124.57 MB	c2931495	
Ubuntu 18/Debian 10	★ rstudio-1.3.959-amd64.deb	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	¹ 3. Click	¹ 3. Click save	
OpenSUSF 15		11	12	
tps://download1.rstudio.org/desktop/xenial/amd64/rstudio-1.3.959-amd64.deb What do you want to do with RStudio-1.3.959.exe (163 MB)? Run Save ^ Cancel × From: download1.rstudio.org			Cancel X	

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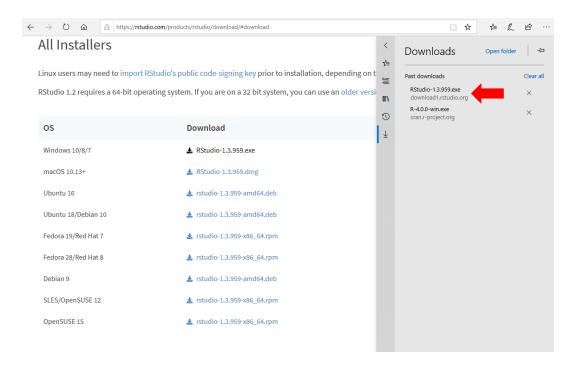


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SLES/OpenSUSE 12	≜ rstudio-1.3.959-x86_64.rpm	119.02 MB	4. Click view
OpenSUSE 15	▲ rstudio-1.3.959-x86_64.rpm	127.59 MB	downloads
RStudio-1.3.959.exe	finished downloading.	Run Open folder Vie	w downloads ×



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