

# Pre-work for the University of South Dakota Genomics Data Carpentry

June 28-29, 2018

## R

**Note: If you have R installed already, please upgrade to the most recent version of R.**

- **Windows**

- Follow links to download the **base** R installation for **Windows** from the main CRAN page.
  - Or click here to start the download immediately: <https://cran.r-project.org/bin/windows/base/release.htm>
- Enter credentials to proceed with installation. If denied, you may need to request temporary admin privileges (see above).
- Choose language and agree to the license.
- Deselect 32-bit (or 64-bit) according to which type of operating system you are running.
  - To find out which version of the Windows OS you are running, navigate to the Control Panel. In the upper right corner search for "System".
  - Click "Show which operating system your computer is running."
  - The next screen will display the "System type" as 64-bit or 32-bit. Most users should be running 64-bit.
- Select default setup. Keep clicking "Next" until the installation begins.
- Continue below to install RStudio.

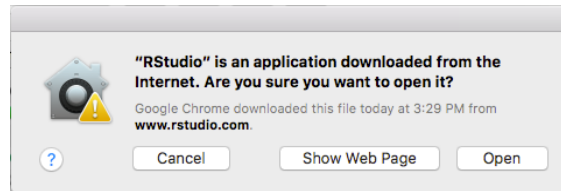
- **Mac**

- Navigate to <https://cran.r-project.org/>
- Follow links to download the newest R installation for Mac from the main CRAN page:
  - "Download R for (Mac) OSX"
  - Click R-x.x.x.pkg
- Open R-x.x.x.pkg from your Downloads folder.
- Click "Continue" and "Agree" to accept the license.
- Finally click "Install" to begin installation. You may need to enter your Microsoft credentials before the installation will begin.
- When finished, click "Close" to exit the installer.
- Continue below to install RStudio.

## RStudio

- **Mac**

- Navigate to <https://www.rstudio.com/products/rstudio/download/> and download the Rstudio-x.x.xxx for Mac OS X 10.6+ (64-bit).
- Open the dmg file and drag to the Applications folder to begin the installation.
- Open RStudio.
- You may see the below pop-up window. If so, click "Open" to continue.



- **Windows**
  - Navigate to <https://www.rstudio.com/products/rstudio/download/> and download the Rstudio-x.x.xxx for Windows Vista 7/8/10.
  - Launch the executable.
  - Click "Next" to move through the installation instructions until the installation begins. The default install directory is fine.
- Confirm everything installed properly by opening RStudio. Find the Console pane and at the line starting with ">" type `sessionInfo()` and hit <Enter>. You should see a response similar to the screenshot below that states the R version and your platform.

```
Console Terminal x
~/
R version 3.4.4 (2018-03-15) -- "Someone to Lean On"
Copyright (C) 2018 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> sessionInfo()
R version 3.4.4 (2018-03-15)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: windows 7 x64 (build 7601) Service Pack 1

Matrix products: default

locale:
[1] LC_COLLATE=English_United States.1252 LC_CTYPE=English_United States.1252
[3] LC_MONETARY=English_United States.1252 LC_NUMERIC=C
[5] LC_TIME=English_United States.1252

attached base packages:
[1] stats      graphics  grDevices  utils      datasets  methods   base

loaded via a namespace (and not attached):
[1] compiler_3.4.4 tools_3.4.4
>
>
>
```