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

- o 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.
- o Select default setup. Keep clicking "Next" until the installation begins.
- Continue below to install RStudio.

• Mac

- Naviagte to https://cran.r-project.org/
- o 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 Monsanto 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.
- o 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 ×
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
```