Before you begin

Make sure that you have the recent version of R (needed to download RStudio) and RStudio installed on the computer you are using. If you need to install them, please visit the following websites.

R: https://cran.rstudio.com/

RStudio: https://www.rstudio.com/products/rstudio/download/

Create a folder on your computer which is easily accessible. You will make this folder your working directory. Your working directory is where R will find any files you ask R to open. You will also save your R files (i.e., data files, scripts, figures, etc.) in this folder.

Example: A folder named 'R Analysis' in the Documents

Download the swirl lesson (NorthNSEANOVA.swc) from the course CANVAS site into your working directory. Save it directly to a folder- do not open it and do not assign it to any specific software.

Download the dataset (Dummydata.csv) from the course CANVAS site into your working directory. We'll use the dummydata to practice, but once you've worked through the swirl lesson on one-way ANOVAs, you'll run it again with your own data that you'll report in your presentation and final lab report.

Now it is time to set your working directory and make swirl lesson ready for your use. Please open RStudio and set your working directory. In the Toolbar, go to "Session" --> "Set Working Directory" --> "Choose Directory..." and then navigate to the folder you created for R assignments for this course.

Alternatively, you could run the following code:

setwd("C:/Users/northr/Documents/Teaching/R/QUBES/NorthANOVA")

Notice that the example above uses forward slashes- this is different from Windows Explorer that uses back slashes- if you copy from Explorer you will need to change all of the backslashes to forward slashes.

This code sets your working directory. Make sure that you pay attention to quotation marks, capitals and forward slashes! Replace the text in quotations with your own path to your folder.

To check if you set your working directory right, enter this code to print your current working directory:

getwd()

This next code installs the swirl package. Please be patient while installing R packages. It may take some time:

install.packages("swirl")

This code selects the swirl package in your library so it is ready to use:

library("swirl")

Install your swirl lesson using this code. Swirl lessons are the files with .swc file extension in your working directory. This code will bring you to your working directory, where you just select the lesson file. Hit enter to pull from working directory:

This code starts the swirl. You are ready to start working on your swirl lesson:

swirl()

The rest is auto-pilot- just follow the prompts. When it asks you to choose a course, pick NorthNSEANOVA