

Assignment 2: Create script to import your data and generate summary data

Due: end of day, **Tuesday, September 10th**

For Assignment 1, you uploaded a data set and I gave you feedback on data formatting.

In this assignment, I would like you to create a project folder that contains both the data (with corrected formatting) and an R script to import the data and calculate some summary data, for example:

- Calculate mean values of a measurement by treatment, or by year, etc. (probably most common).
- Generate a table of frequencies of number of entries of some sample type (if you data are counts, but not quantitative values).

The goal of the assignment is to get you through the mechanics of how to prepare a dataset for plotting and analysis in R.

Here are the concrete steps:

1. Create a project folder that contains your data, .Rproject file, and an .R script file.

You can create this folder first within your course folder on your computer. Create the folder, paste your data file (.csv) in the folder, then create an RStudio Project file using this as the “existing directory”.

- To create the Rstudio project file, open R Studio, go to File > New Project, and then select “existing directory” and point to the new folder.

- Once you have created the project, start a new script file by going to File > New File > R Script.

2. In your script file, write a code that imports your data file

This will likely start with something like:

```
dat=read.csv("datafile.csv")
```

3. Write code that will calculate a summary statistic (e.g., group means)

Look back at Module 3 for some guidance on this.

4. Save the script file as a .R file.

5. Upload the whole project folder to your course Box folder under “Assignment 2”.