

# Reading in Data

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# Reading in .csv Data Stored Locally

```
Andrew_project
|--Andrew_project.Rproj
|--raw_data
|   |--data.csv
|--tidied_data
|   |--tidy_data.csv
|--R_scripts
|   |--data_tidy.R
|   |--data_vis.R
|   |--analysis.R
|--markdown_scripts
|   |--analysis.Rmd
|--output_reports
|   |--analysis.html
|   |--analysis.pdf
```

Imagine your folder structure looks like what we have on the left. Inside your folder you have a number of sub-folders. As you can see, we have one folder entitled “raw\_data”. In this folder we have one data file entitled “data.csv”. Our script is in the folder “R\_scripts”.

To read in the “data.csv” data file in our data\_tidy.R script and assign it a variable called my\_raw\_data we would write:

```
my_raw_data <- read_csv("raw_data/data.csv")
```

This means go to the “raw\_data” folder in the project folder (where the .Rproj file sits) and the file “data.csv”. The expression “raw\_data/data.csv” is the file path.

# Reading in .csv Data from a Webpage

Quite a lot of the data we'll be working with in this unit is hosted on GitHub. Reading in data from GitHub is easy (assuming you have a working internet connection).

Imagine we want to read in a Tidy Tuesday dataset such as ratings for the US version of "The Office". The data are stored in a .csv file here:

```
https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2020/2020-03-17/office\_ratings.csv
```

To read in the data to R and assign it to the variable "office\_data", we'd simply type:

```
office_data <-  
read_csv("https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2020/2020-03-17/office_ratings.csv")
```