

File Management in R

Pwani R Workshop

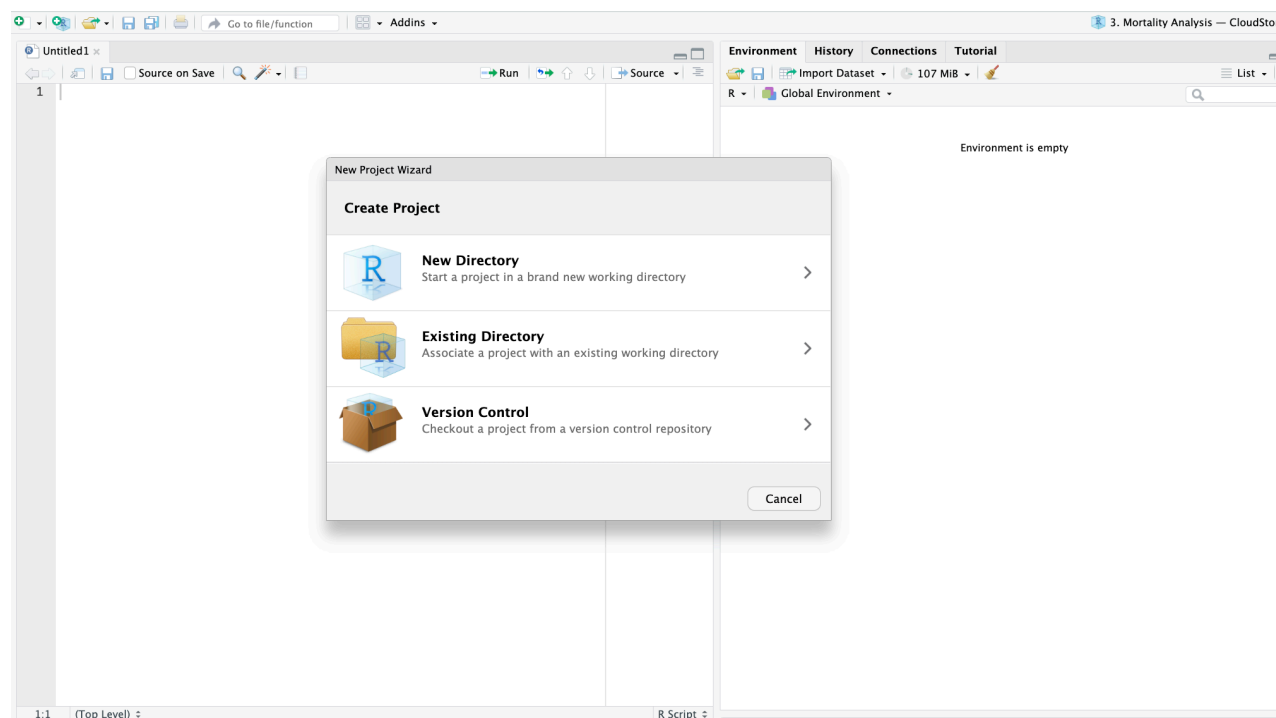
8th July 2024

In this session, we will cover:

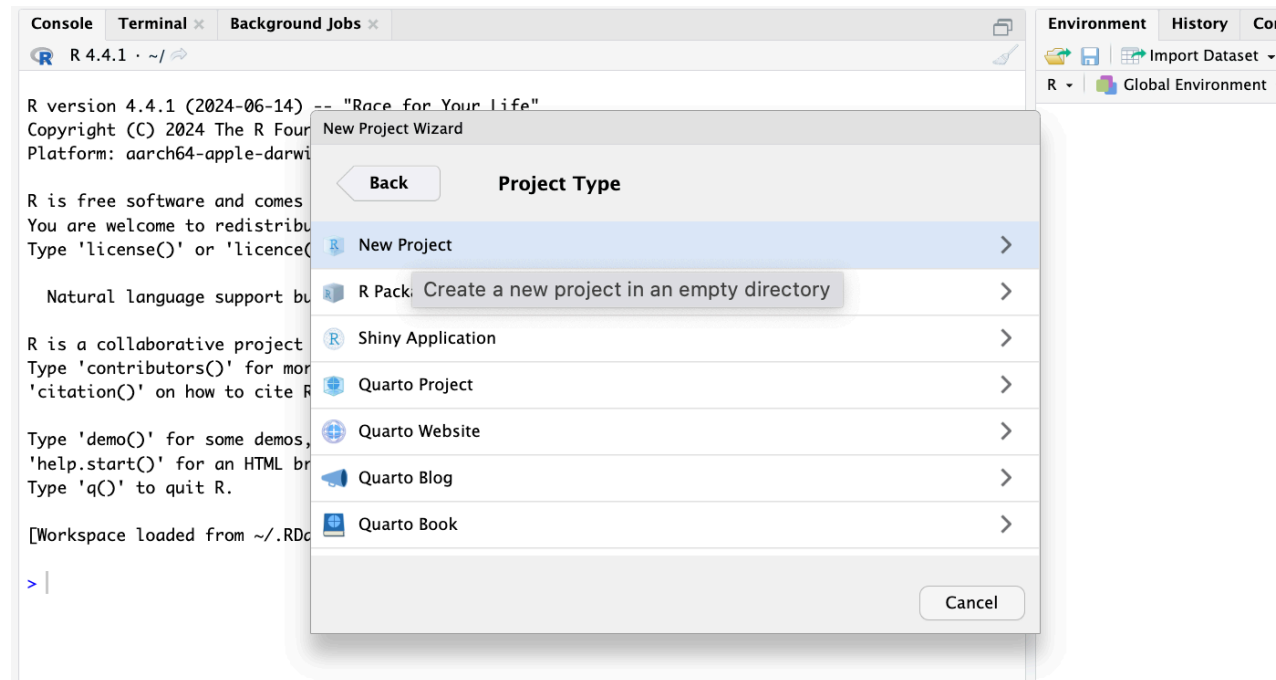
- Creating a new project directory in RStudio
- Starting and saving a new R script
- Good coding practice

Creating a new project directory in RStudio

- Open R Studio; go to the **File** menu and select **New Project**.
- In the **New Project** wizard, choose **New Directory**.

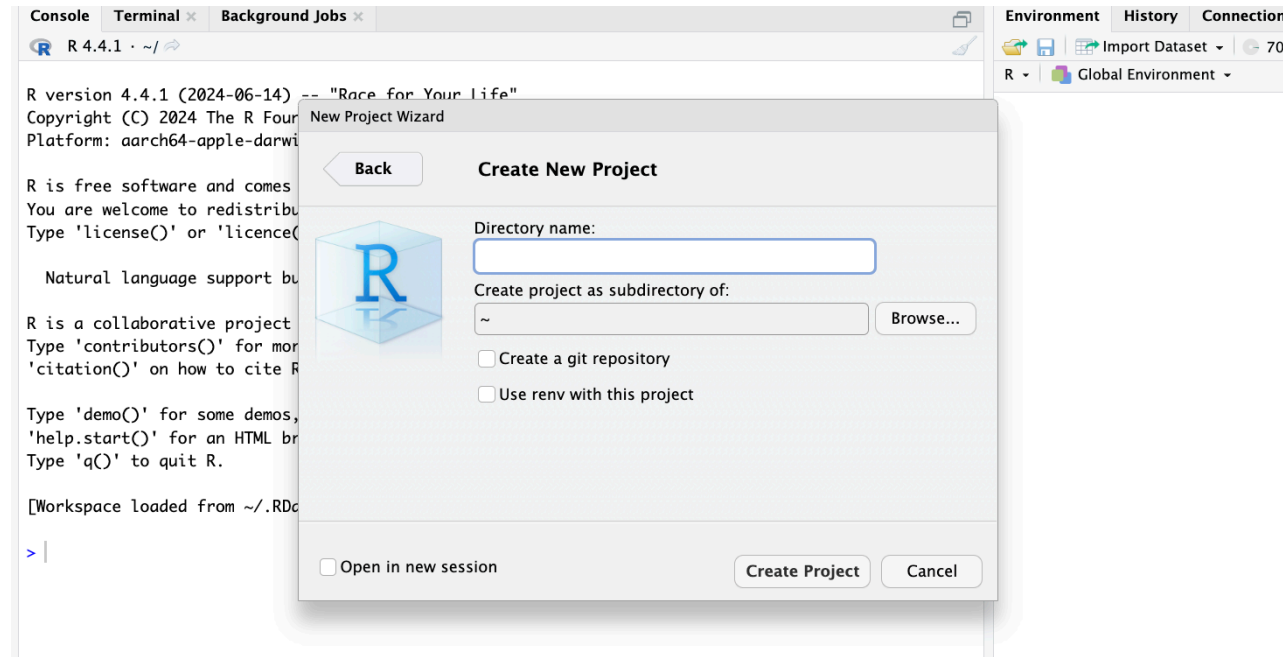


Creating a new project directory in RStudio



- Then select **New Project**
- Name your new directory **PwaniR_2024**

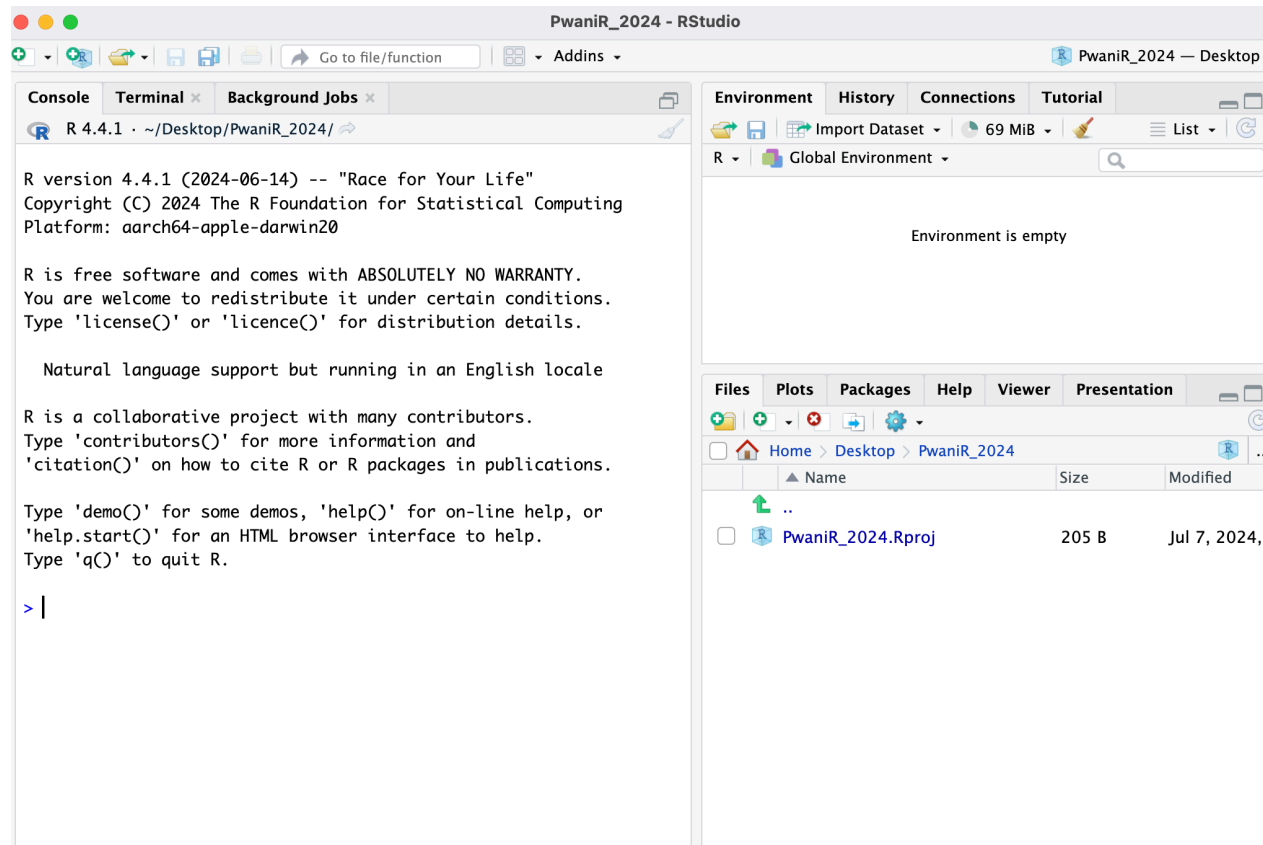
Creating a new project directory in RStudio



- Click on **Browse** to select the location of the project
- Finally click on **Create Project**

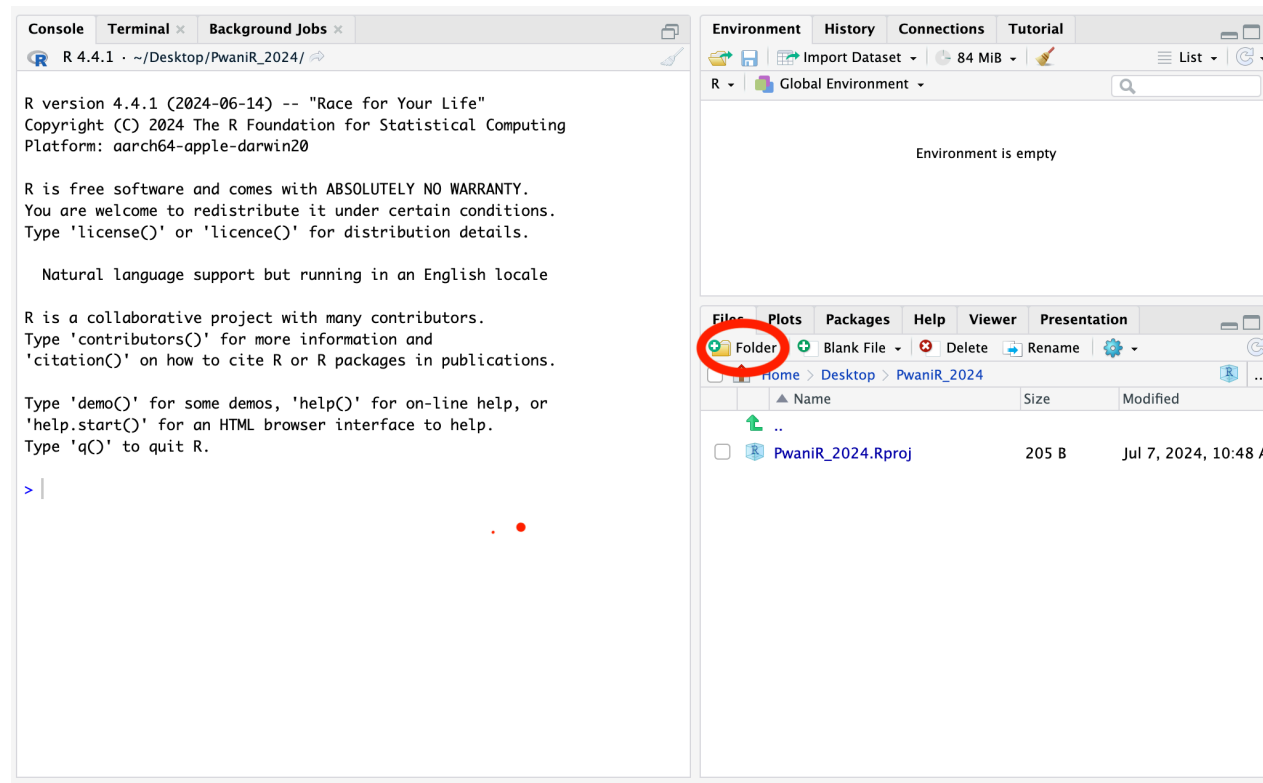
Creating a new project directory in RStudio

The RStudio interface should now look like the screenshot below.



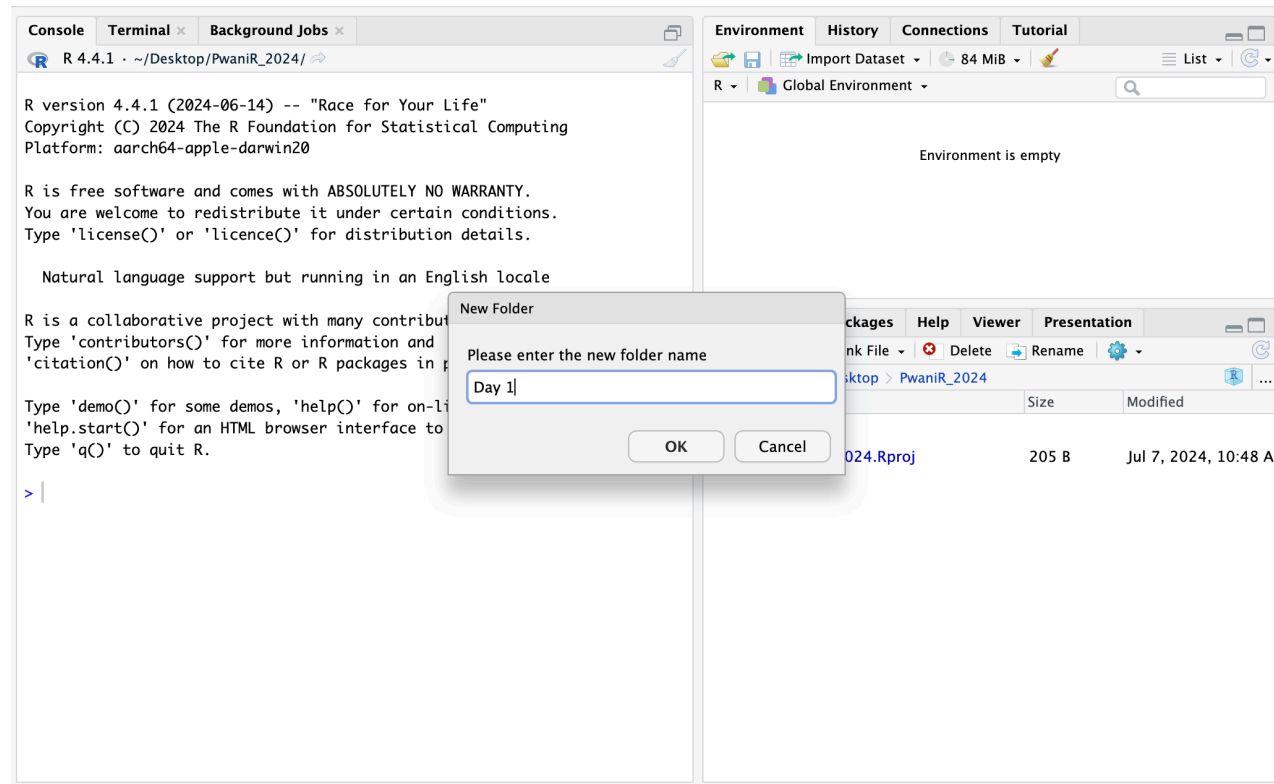
Creating folders and sub-folders

Creating a new project directory in RStudio - Click on **New Folder** in the bottom right pane



Creating folders and sub-folders

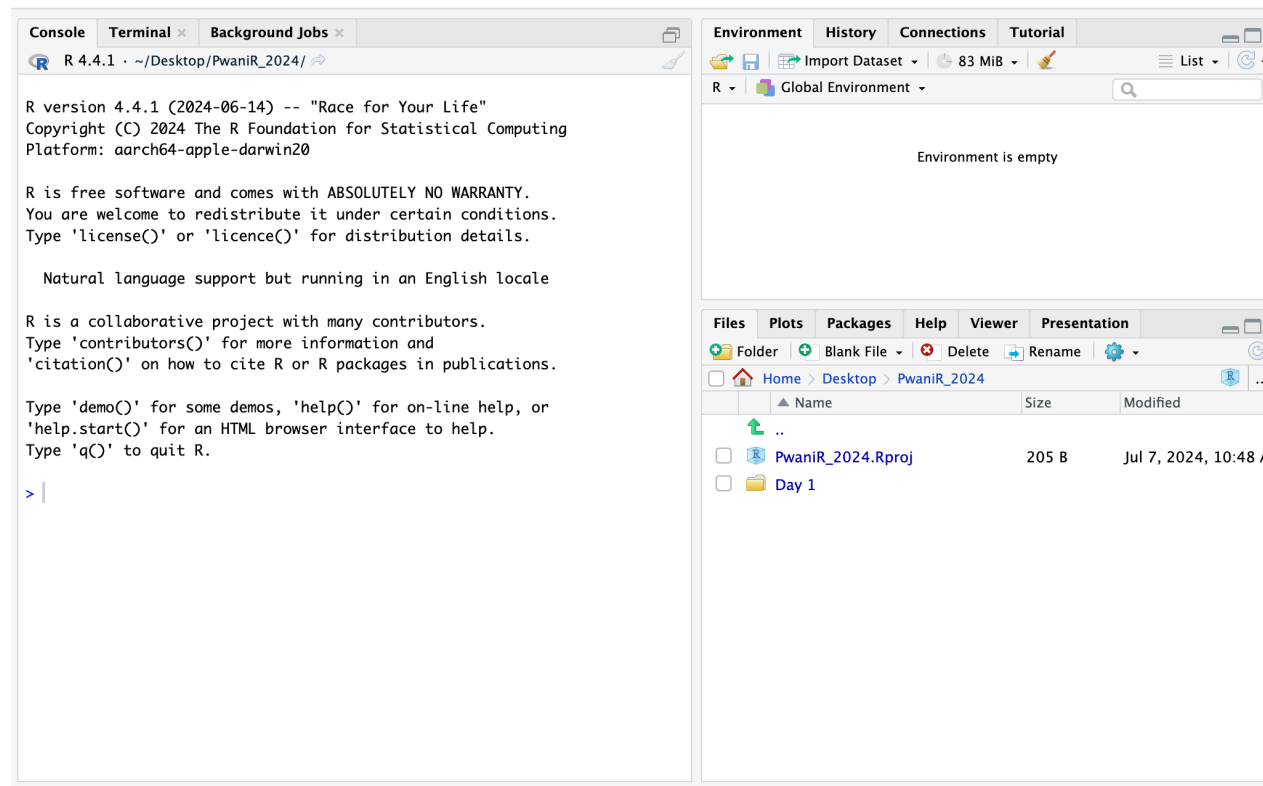
- Name the folder **Day 1** and click OK



Creating folders and sub-folders

The RStudio interface should now look like the screenshot below.

- The Files shows the new folder named Day 1



Structuring your project directory

Guiding principles

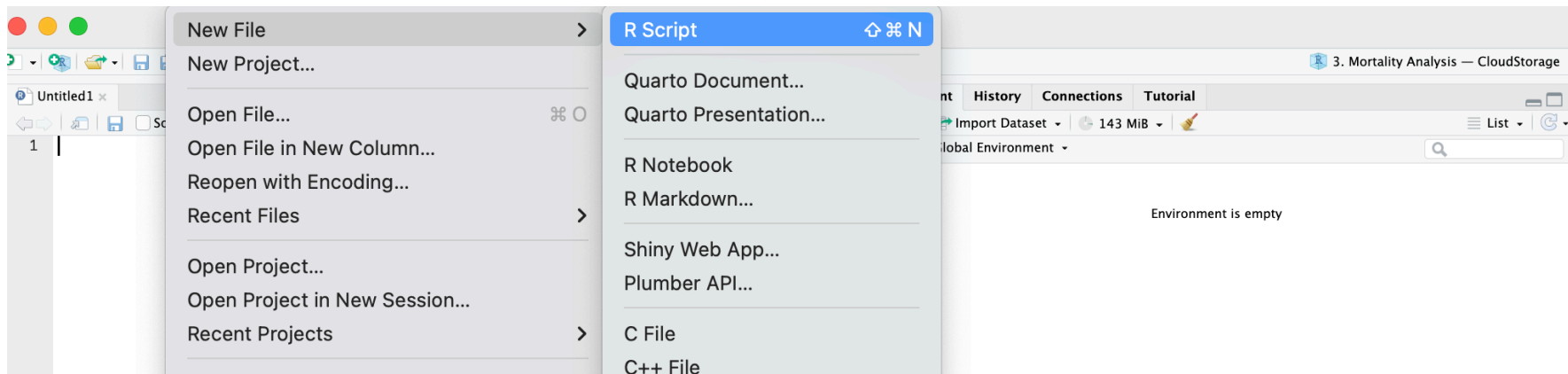
- Have separate folders for data and R scripts. For instance:
 - Have a `data` sub-folder within `Day 1` for storing data
 - Have a `scripts` sub-folder within `Day 1` for storing R scripts
 - Have a `graphs` sub-folder within `Day 1` for storing plotted graphs
 - Have a `resources` sub-folder within `Day 1` for storing shared files
 - Have a `exercises` sub-folder within `Day 1` for storing exercises

R scripts

Starting a new R Script

After creating a new project:

- Go to the **File** menu and select **New File**, and select **R Script**.
- Go to the **File** menu and select **Save As**
- Type **Intro-to-R.R** and select **Save** in the **scripts** folder



Good coding practices

Best practice is to enter the commands in the script editor and save the script.

`#` creates a comment in R code

`# this is a comment`

`# nothing to its right is evaluated`

`# this # is still a comment`

`### you can use many #'s as you want`

`1 + 2 # Can be the right of code`

`## [1] 3`

Hands-on practice

Exercise 1

In the shared files, open document named `excercise_01`