

R you ready?

**Intro to RStudio and R Markdown
for open data and reproducibility**

Unit 5:

Setting up a project

Mason A. Wirtz

 [@WirtzMason](https://twitter.com/WirtzMason)

Keep things
tidy!



.Rproj file

**Each project should
have a .Rproj file**



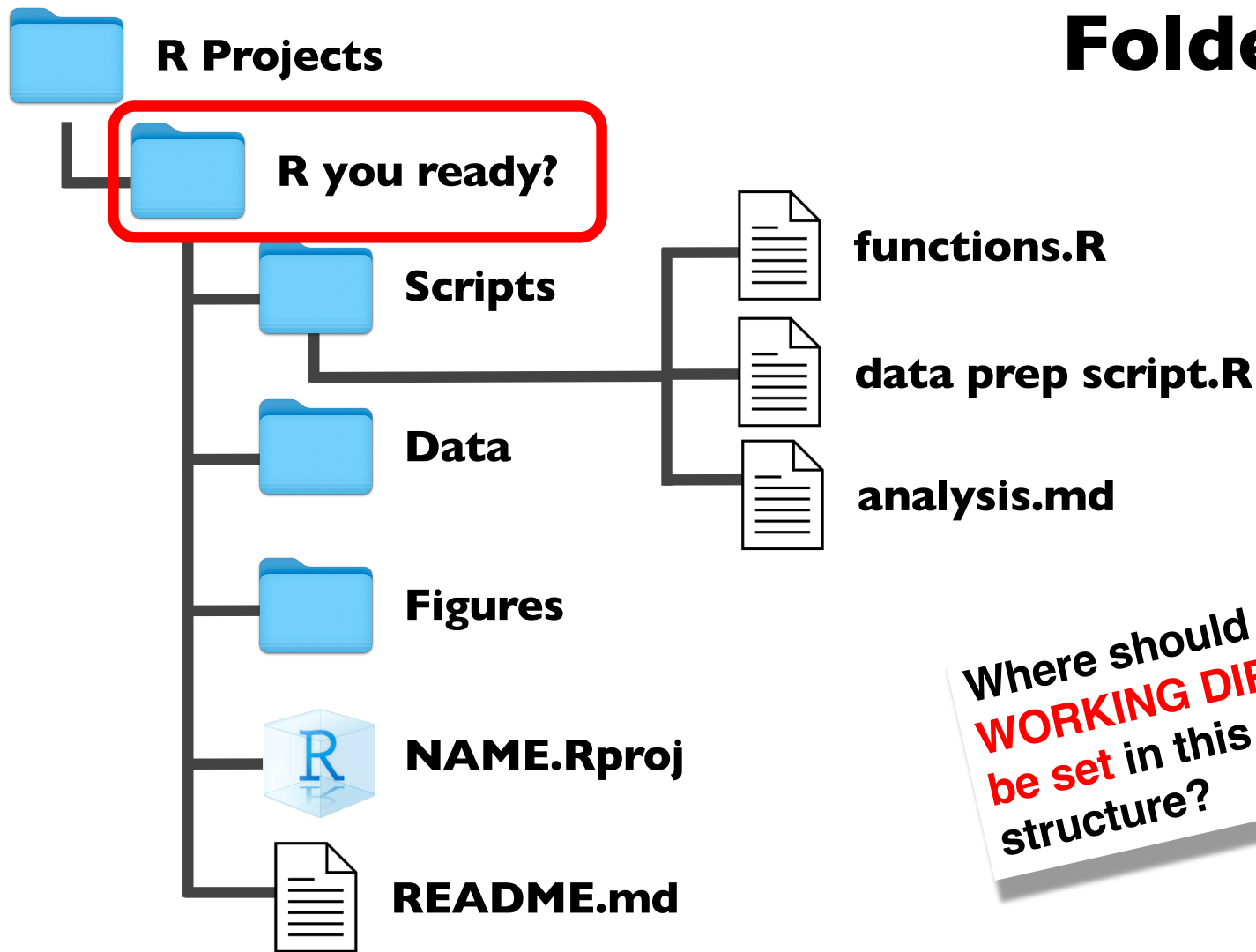
RStudio projects...

**...make it easy to divide
your work into multiple
contexts**

**...are associated with R
working directories**

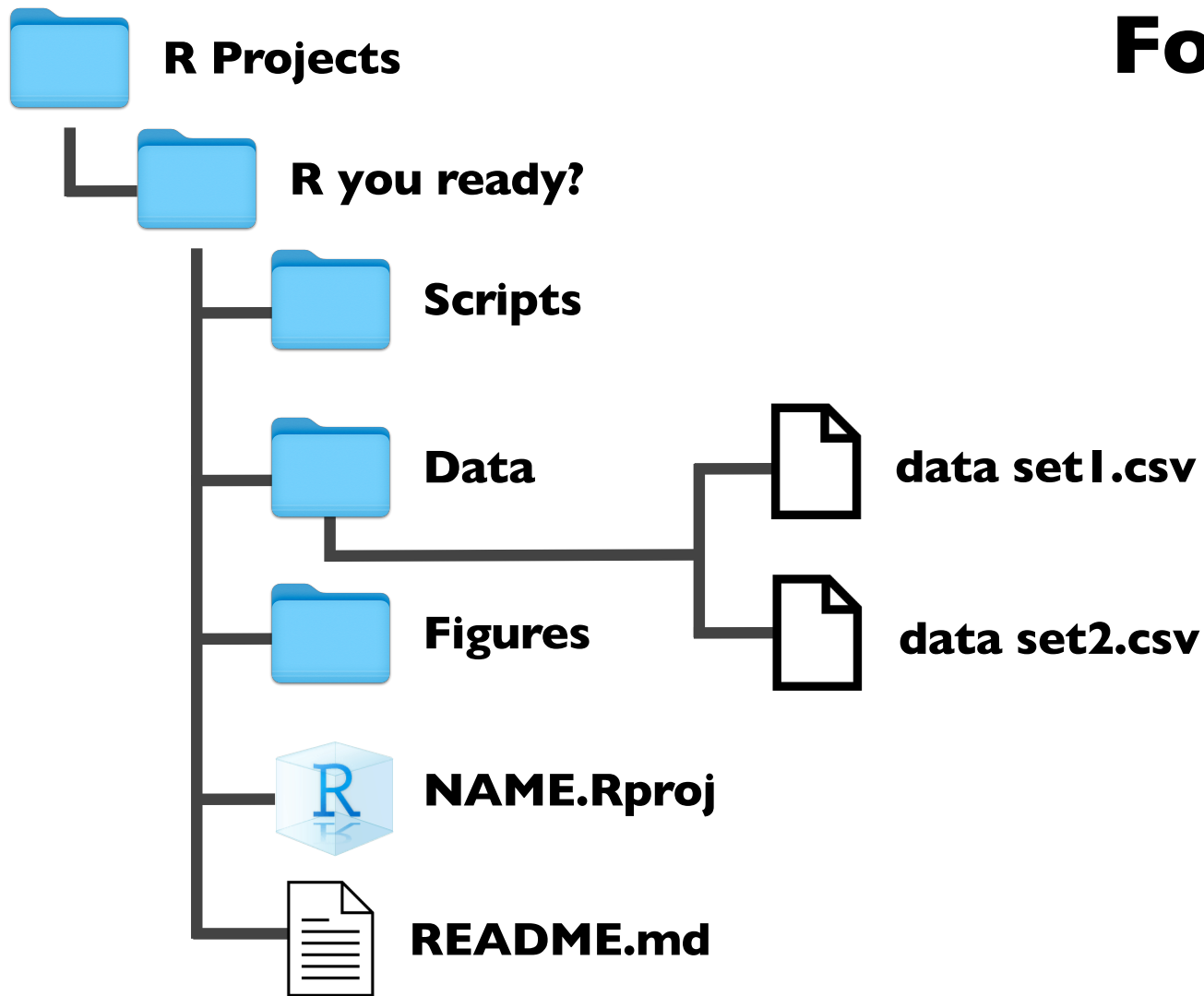
**...have their own working
directory, workspace,
history, and source
documents.**

Folder structure

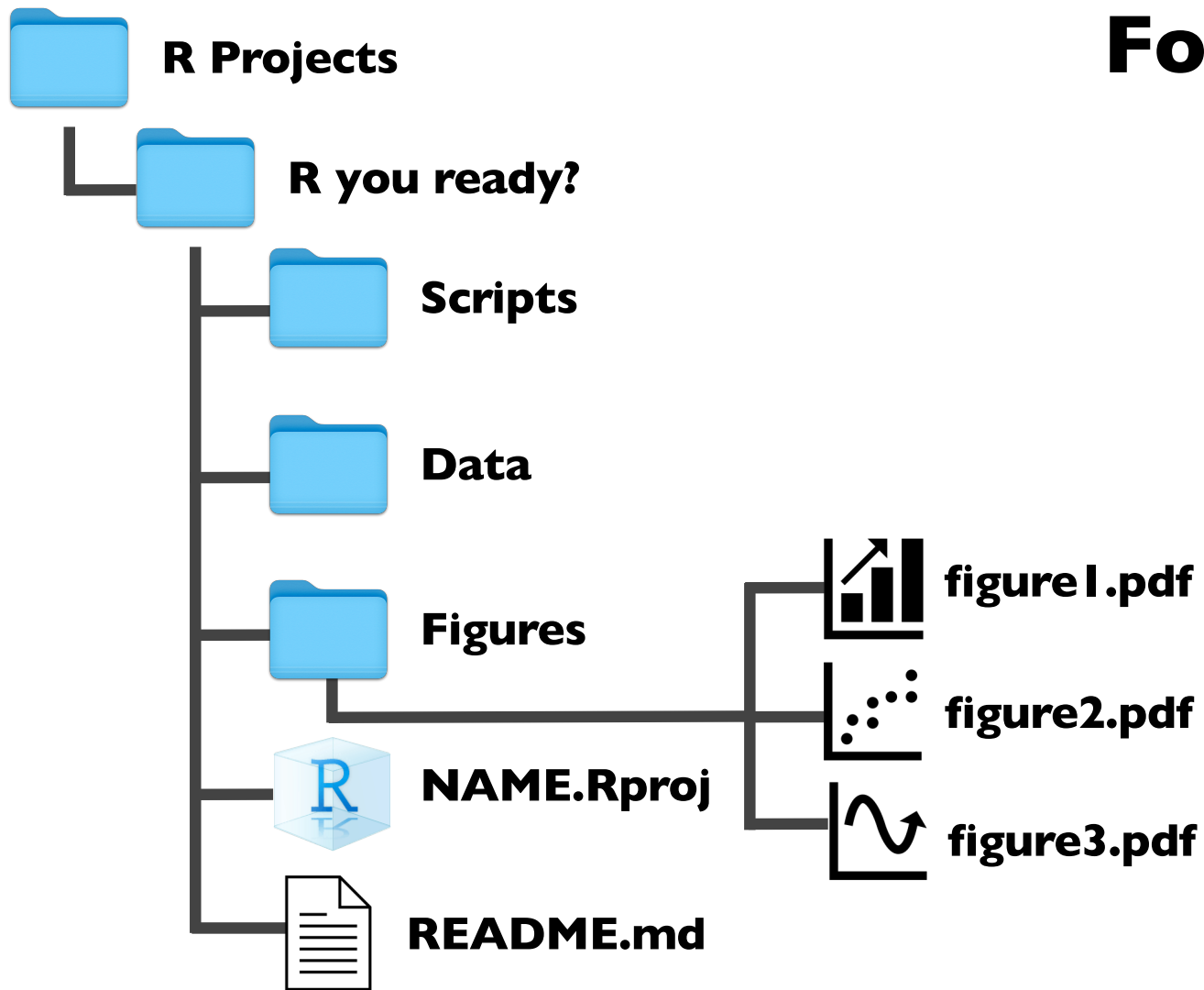


Where should our **WORKING DIRECTORY** be set in this folder structure?

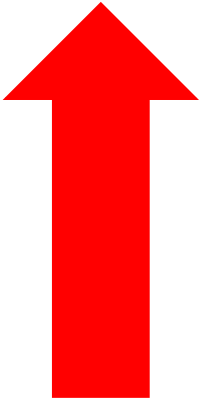
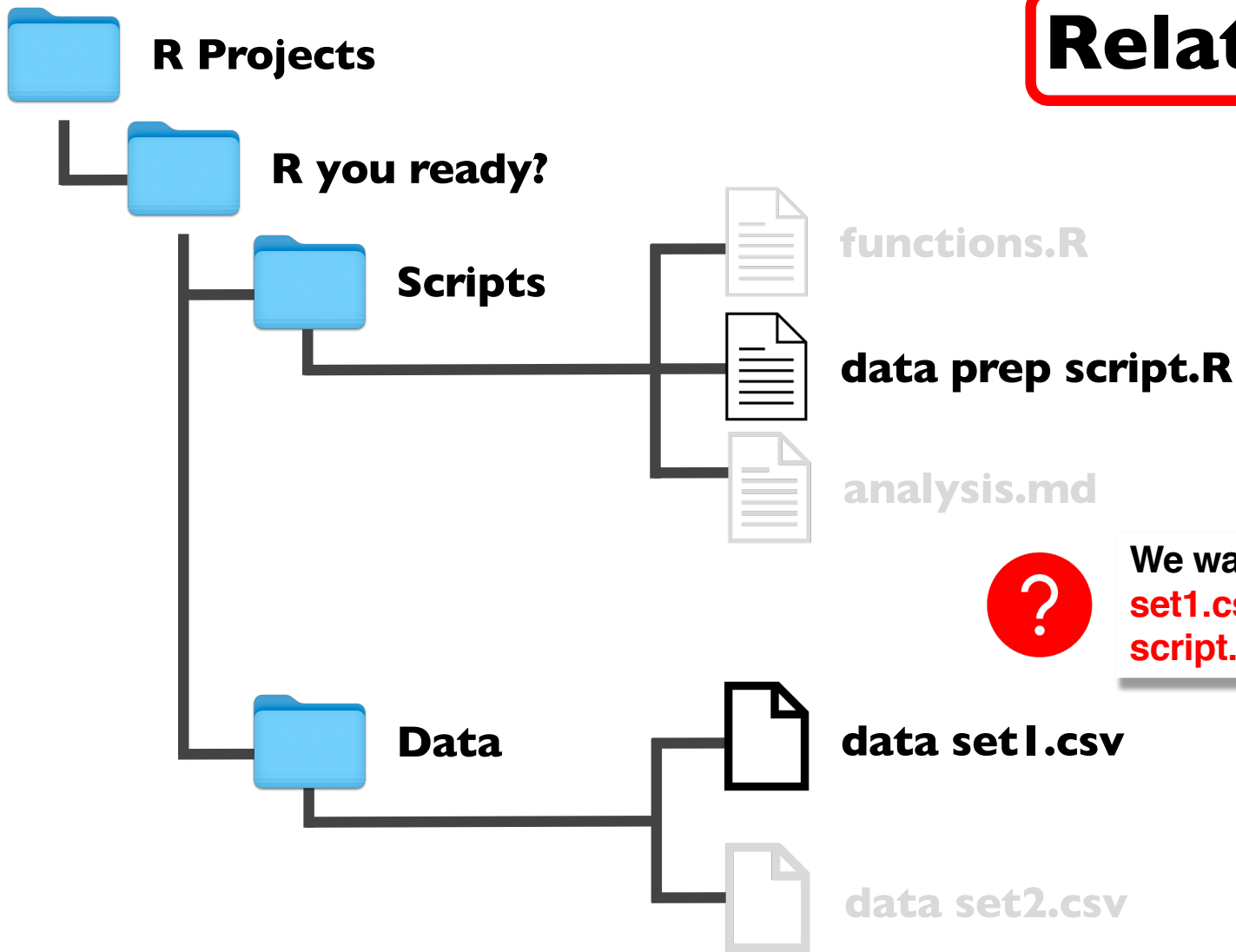
Folder structure



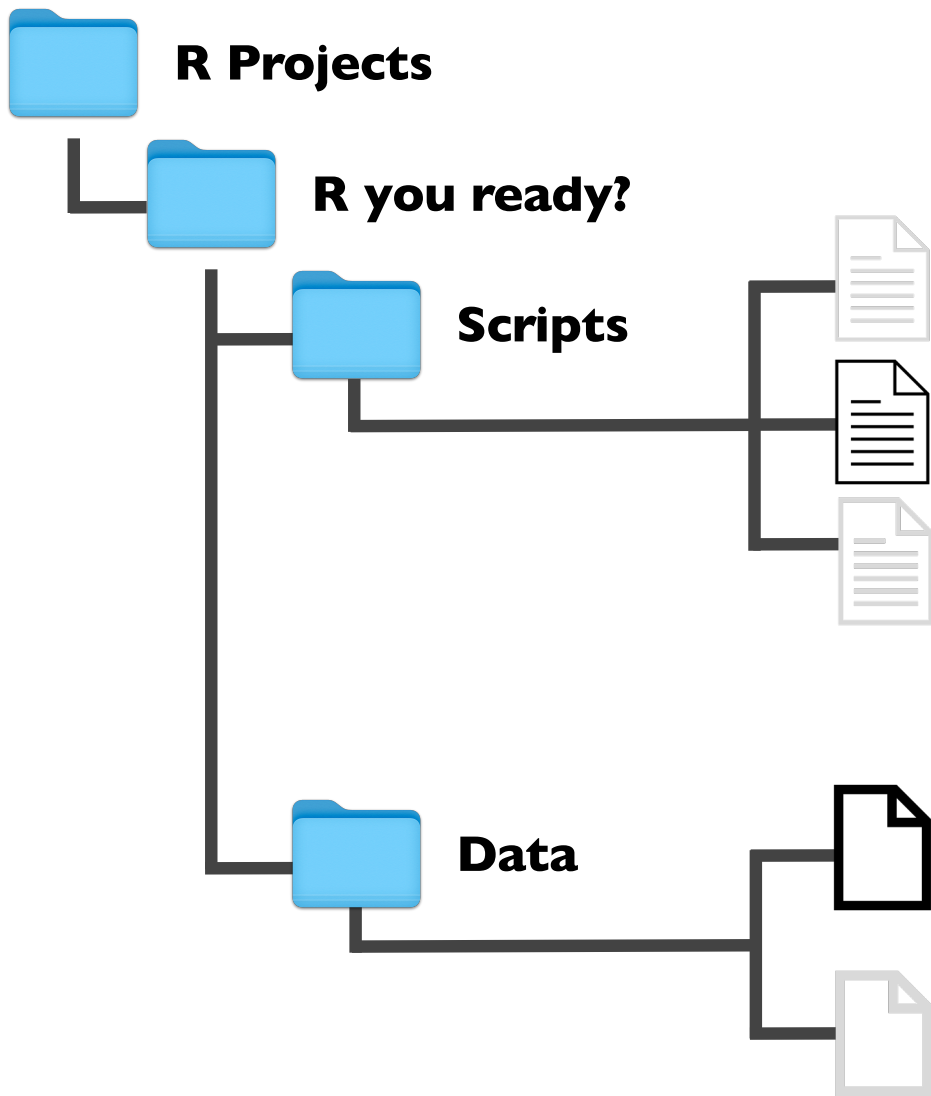
Folder structure



Relative paths



We want to load in our data set1.csv to our data prep script.R script...HOW?



Relative paths

In RMarkdown documents, you need two points



`read_csv(.. /PATH)`

functions.R

data prep script.R

Follow this path to find the data set

analysis.Rmd



```
> data = read_csv("../Data/data set1.csv")
```

data set1.csv



Jump up one folder in hierarchy (not necessary in .R files)

data set2.csv

Relative vs. absolute paths

Windows uses backslashes (e.g., Data\data set1.csv)

Mac OS and Linux use slashes (e.g., Data/data set1.csv) to define a path.

RStudio can deal with paths of each type (on Windows, Mac OS or Linux).

BUT: Backslashes have a special meaning in R → to get a single backslash in the path, you need to type \\

This makes things unnecessary complicated → Use unix-like path definition **using slashes**.

Activity all together

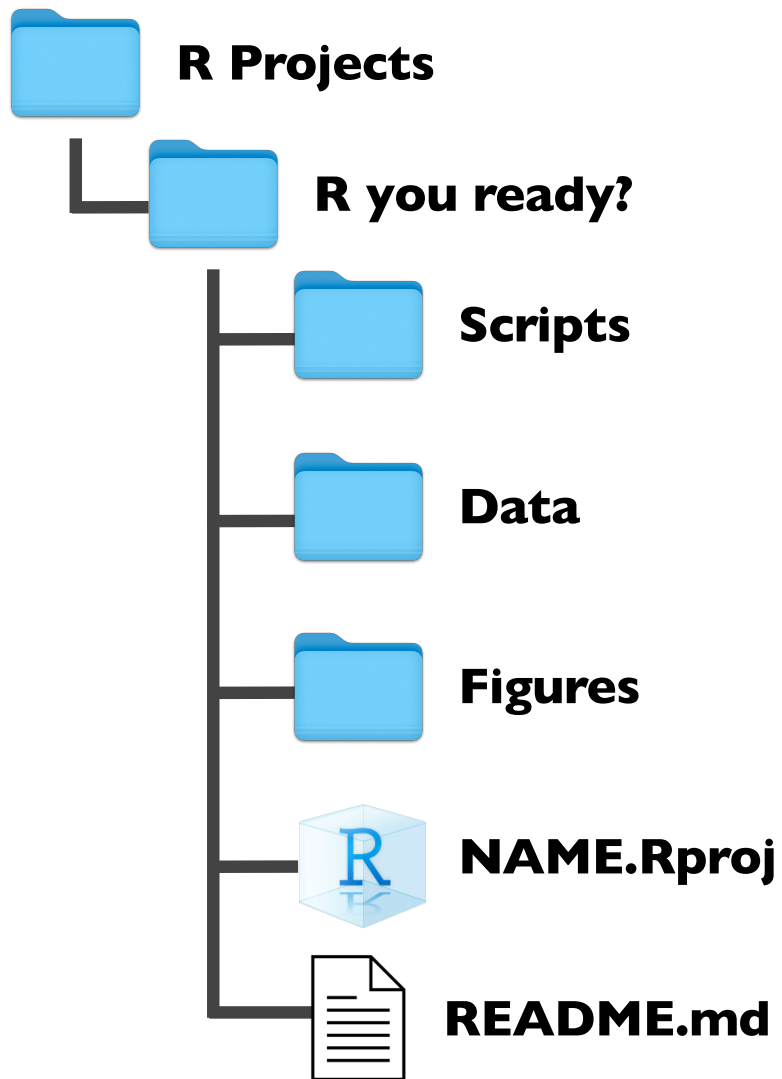
Do we all have an R projects folder?

Do we all have an R you ready? folder within the R projects folder?

Do we all have our working directory set within the R you ready? folder?

GREAT!

Folder structure



Let's all **create the following folder structure** (disregard the readme.md file for now)

Move the `Vampires.csv` to the **Data folder**

LET'S GET OUR HANDS DIRTY



makeameme.org