

# Week 2: Accessing and Viewing Data

Elena (& Willa in spirit) 7/13/2021



#### Welcome to Week 2!

 Make sure you have the session 2 practice materials downloaded from the webpage

https://ucb-psychology-quack.github.io/site/summer bootcamp/bootcamp

2. Open up s2\_starter\_coder.R in Rstudio and get started with the warm-up



# Today's agenda

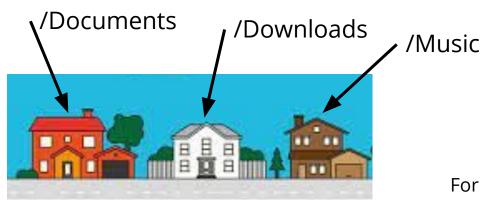
- Data frames
- Working directory
- Reading in data
- Viewing your data
- Making factors
- Group activity to practice!



# What is a "working directory"?

- The current file path that R is using and where it will "look" for files
  - R will assume I want to read in or write out files using this folder
- You can think of file paths as addresses

On "My PC" street....



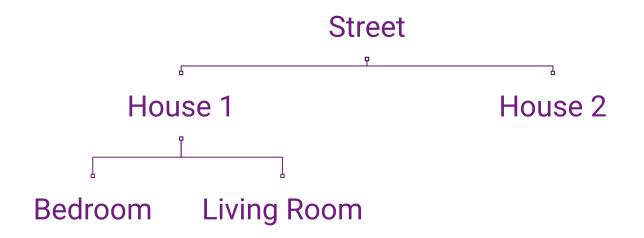


For more info see <u>YaRR: A</u> <u>Pirate's Guide to R chapter</u>

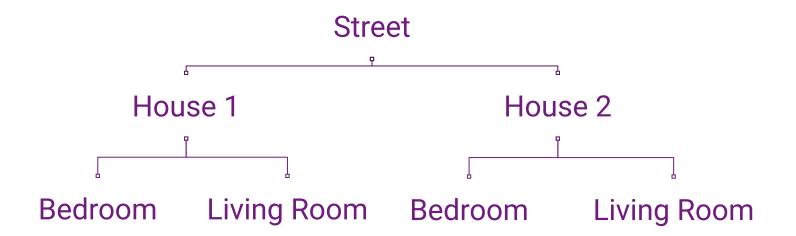




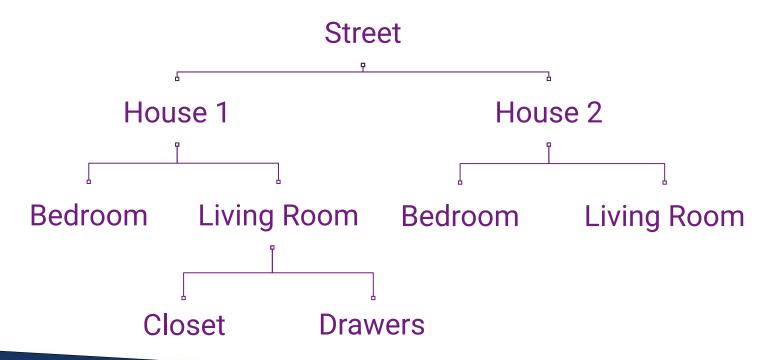












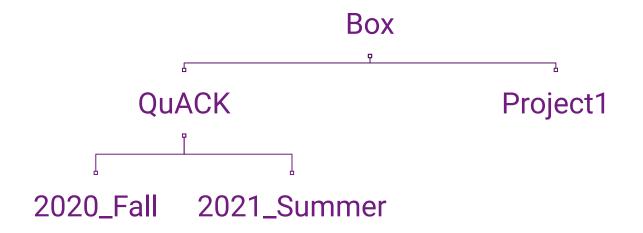


Box

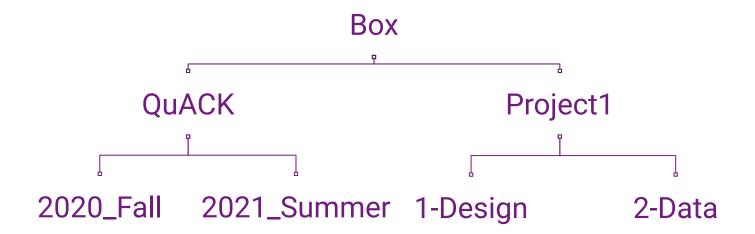




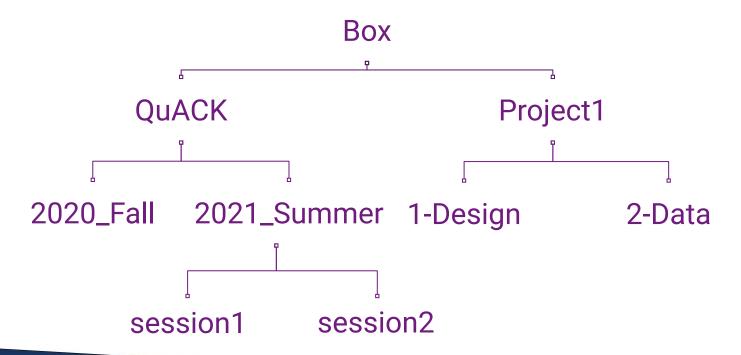






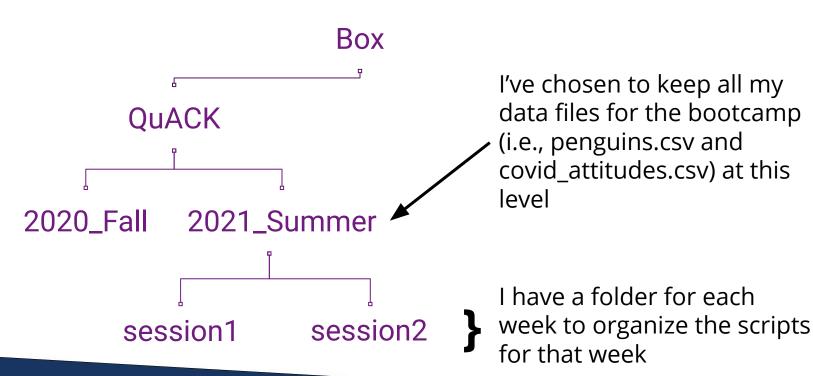








## Let's look at my file structure more closely





# Different ways to organize your files

#### What I did:

- 2021\_Summer (folder)
  - penguin.csv
  - covid\_attitudes.csv
  - session1 (folder)
    - scripts
  - session2 (folder)
    - scripts

#### Another option:

- 2021\_Summer
  - penguin.csv
  - Covid\_attitudes.csv
  - session1\_script.R
  - session2\_script.R

^^ No separate folders for each session



# Working directory and loading data

- Organization is up to you (and ask your grad student for how they do it!)
- Whatever you do though, you need to understand it when you're loading your data!
- R has to know where to look for the data file, or it won't be able to read it in



# **Group Activity**

#### Groups:

https://docs.google.com/spreadsheets/d/1QrJg\_aJkbehIQXNdAX10GCc2s0cmly SKZMYx4UL7vjA/edit?usp=sharing

Instructions (also editable in downloaded materials):

https://docs.google.com/document/d/1wv6UzVqeqHJcelpOtxMmCyWmnP0zyT 7w2NSLD7NPSOQ/edit?usp=sharing

#### Help doc:

https://docs.google.com/document/d/1lesSkLxwvE3uUYDp6Qd3LZcYvGlwUwe GFQLhM7\_YllY/edit?usp=sharing



# Most common errors when loading data

- Wrong file path (i.e., wrong working directory so R is looking in the wrong place and cannot find the file)
- Forgot to put quotes around the name of the file and/or file path! read.csv("penguins.csv")

#### Other tips:

Don't use spaces in your file names or folder names!

