

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

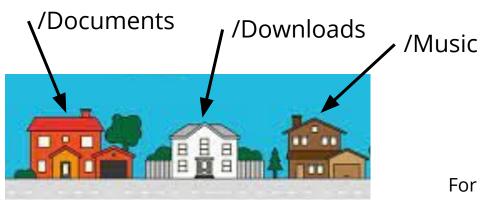
- Data frames
- Working directory
- Reading in data
- Viewing your data
- Making factors
- Group activity to practice!



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>



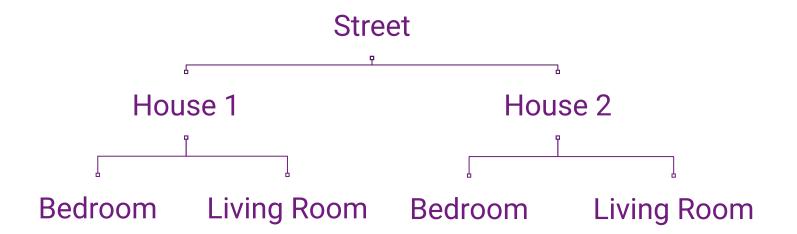




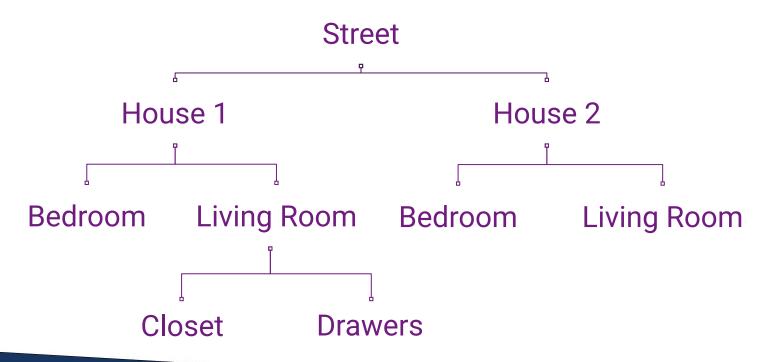








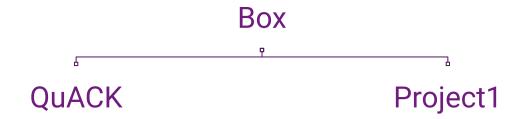




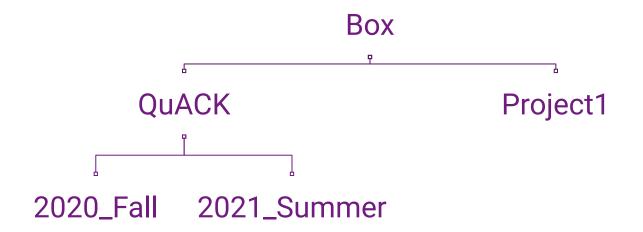


Box

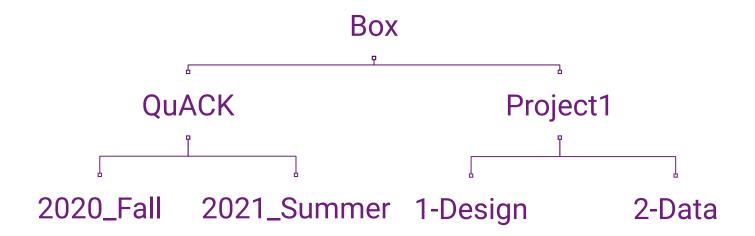




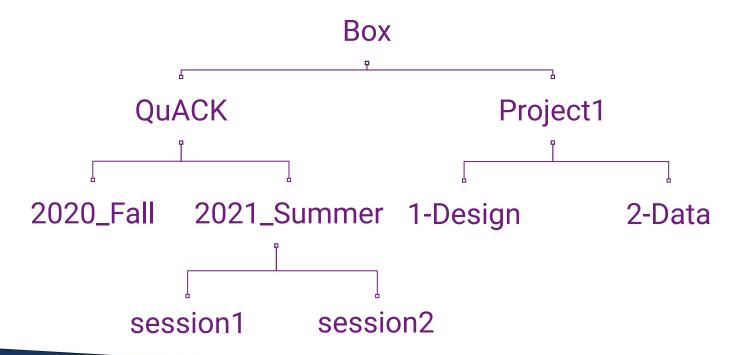






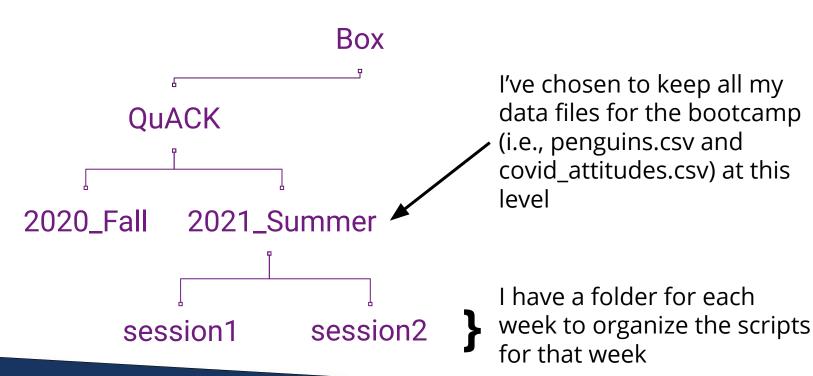








Let's look at my file structure more closely





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!



Exit ticket

https://forms.gle/WKShB1jcjaJkhuGJ6

