

Week 2: Accessing and Viewing Data

Emily & Sierra 6/20/2024



Welcome to Week 2!

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

https://tinyurl.com/rbootcamp2024

Week 2 Warm-Up: We'll go over at 2:50 PM

- 1. Please sign in with the link or QR code: https://tinyurl.com/signin-bootcamp-2
- 2. Make a New R script.
 - i. Save it to your computer. Title it "S2_warmup"
 - ii. Add a comment with the date, a title, and your name
- 3. Create three different vectors:
 - i. A vector called "names" with three names
 - ii. A vector named "ages" with three ages of college students
- iii. A vector called "year" with three years of college (e.g., Freshman, Sophomore, etc.)
- 4. Run the code and check that everything looks correct in the global environment.





Today's agenda (Topic: Accessing & Viewing Data)



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
 - o R will assume I want to read in or write out files using this folder
- You can think of file paths as addresses
 - /Users/sierrasemko/Desktop/bootcamp_2024/session2/session2_starter-code.R

```
iCloud Drive > Desktop > Desktop > session2_bootcamp_2024
```

Our files are in a nested structure

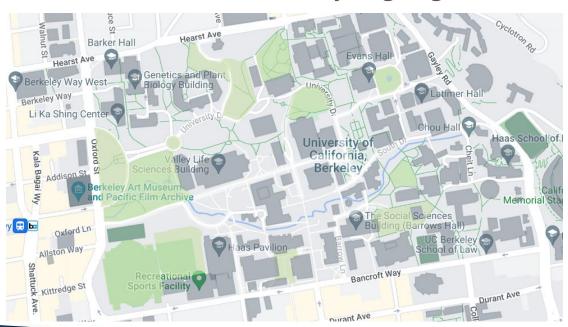


For more info see <u>YaRR: A</u> <u>Pirate's Guide to R chapter</u>

For instance....

Let's say you have a class! But where are you going? Where is it being

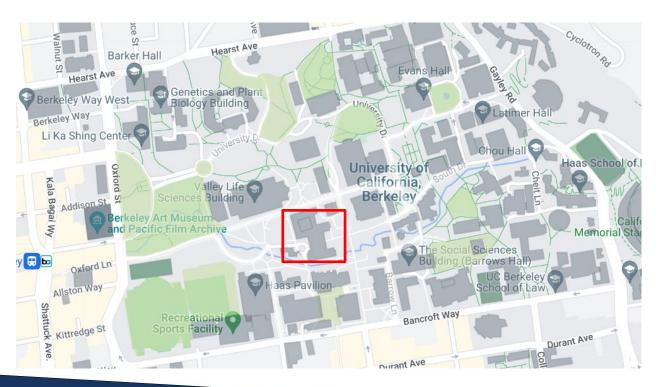
held?





It's in Dwinelle Hall







It's in the basement!

In room 75!

























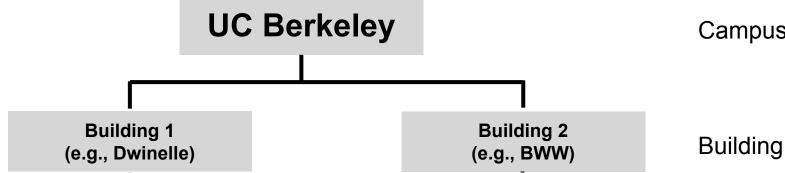


UC Berkeley

Campus



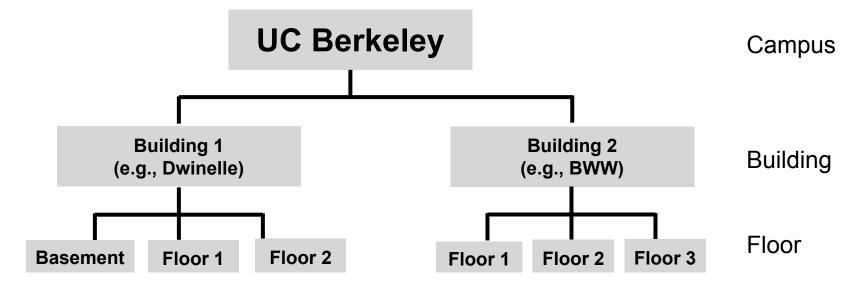




Campus

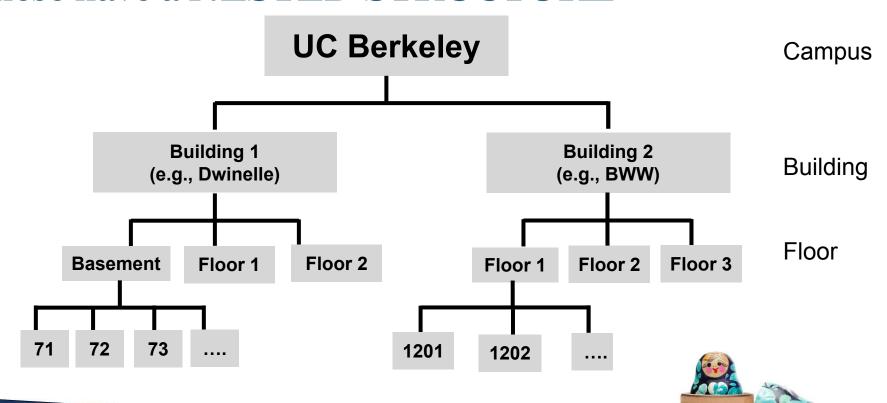












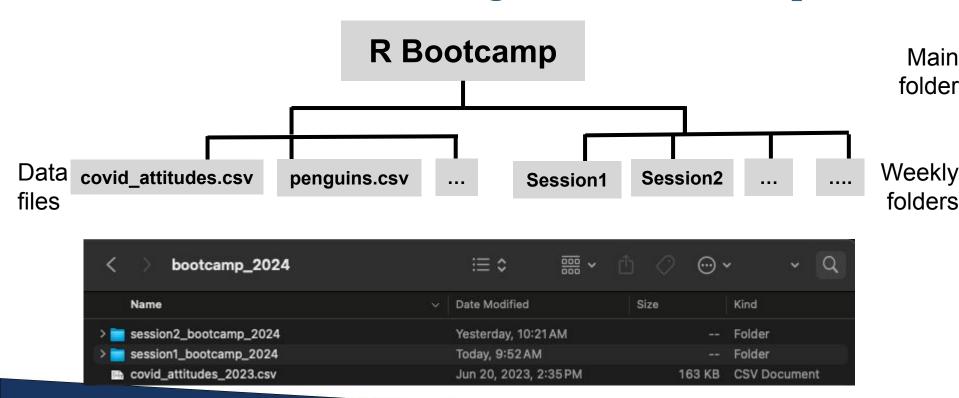


Working directory and loading data

- 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



How we recommend storing files for bootcamp





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!

