- 1. Make a new R script
 - a. Save it to your computer and name it "week2_warmup"
 - b. Add a comment with the title of the script, the date, and your name
- 2. Create three different vectors, each with 5 items
 - a. Vector called "pid" with 5 participant id numbers
 - b. Vector called "ages" with 5 ages of participants
 - c. Vector called "condition" with the condition of each participant, either cond1, cond2, or control.
- 3. Make the condition vector into a factor
- 4. Run length(pid). What does it tell you?

Extra time? Download this week's materials from the course site!





Week 2: Directories and Data

Sierra & Maria 9/5/2023



Today's agenda

- Warm-up
- Check-in + any questions about the program?
- Go over warm-up + data frames (!)
- Working directories & setting up your project folder
- Reading in data
- Viewing and summarizing data



Week 2: Record!

Let's review the warm-up



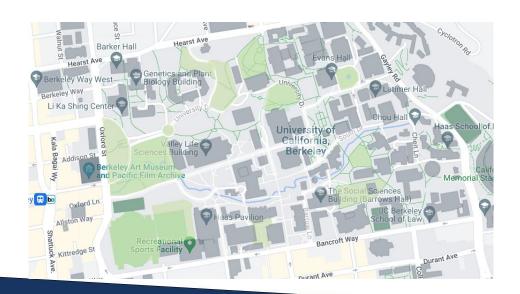
What is a "working directory"?

- The current file path that R is using and where it will "look" for files
 - R will assume you want to read in or write out files using this folder
- You can think of file paths as addresses
 - Each file has one!
- Our files are in a nested structure



For instance....

- Let's say you have a class! But where are you going? Where is it being held?
- File path: "Berkeley/..."

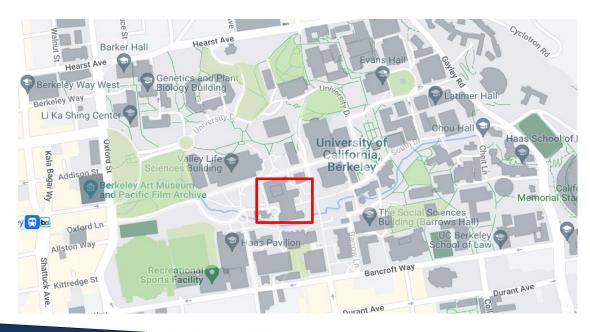




It's in Dwinelle Hall

• File path: "Berkeley/Dwinelle/..."







It's in the basement!

In room 75!

























• File path: "Berkeley/Dwinelle/Basement/Room75"

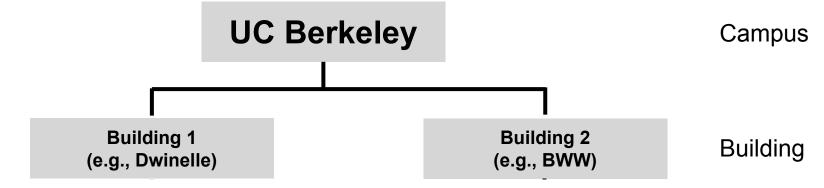


UC Berkeley

Campus

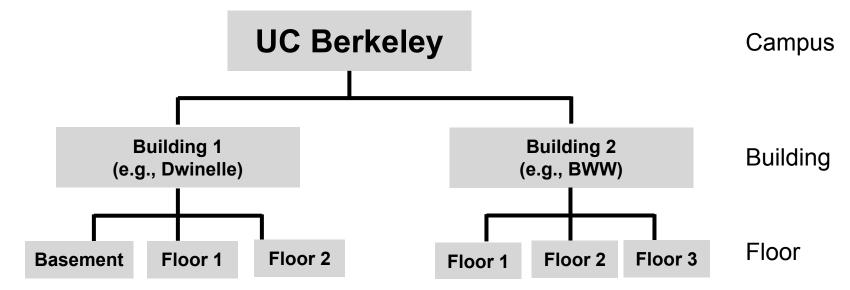






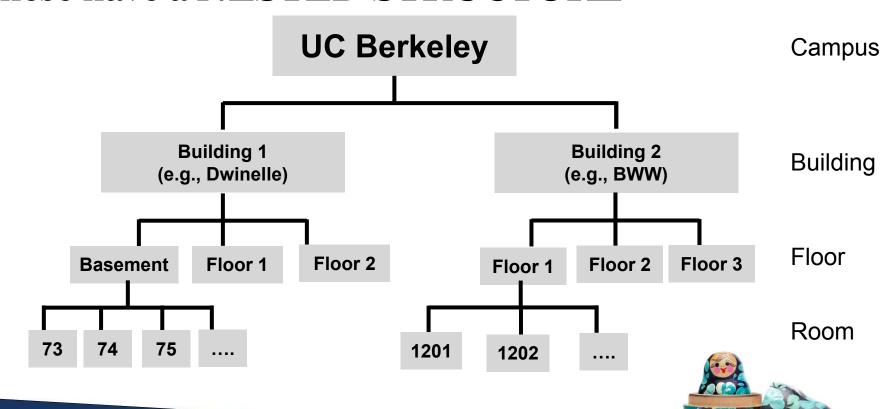














Working directory and loading data

- Organization is up to you -- ask around for how people organize their data and files
 - We have some suggestions, too!
- Keep this structure in mind when loading your data!
- R has to know *specifically* where to look for the data file (its address), or it won't be able to read it in



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!



[folder] quack2023

- [sub-folder] data
- [sub-folder] week1
- [sub-folder] week2
- [sub-folder] week3
- [sub-folder(s)] ...



quack2023

- data
- week1
- week2
- week3
- ...

Both of the data files that we are using for the semester will go in here!



quack2023

- data
- week1
- week2
- week3
- ..

Each week has its own folder



quack2023

- data
- week1
- week2
 - week2_warmup.R
 - week2_starter.R
 - week2_practice.pdf
 - week2_key.R
- week3





quack2023

- data
- week1
- week2
 - week2_warmup.R
 - week2_starter.R
 - week2_practice.pdf
 - week2_key.R
- week3

Download the materials for this week from the course site and put all your files for QuACK in this structure!

Remember to unzip the folders each week

Be sure to store the penguins.csv and covid_attitudes.csv in the data folder

