Warm-up

5:00-5:10

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!
tinyurl.com/quack2022

Week 2: Directories and Data

Elena & Willa
9/6/2022

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

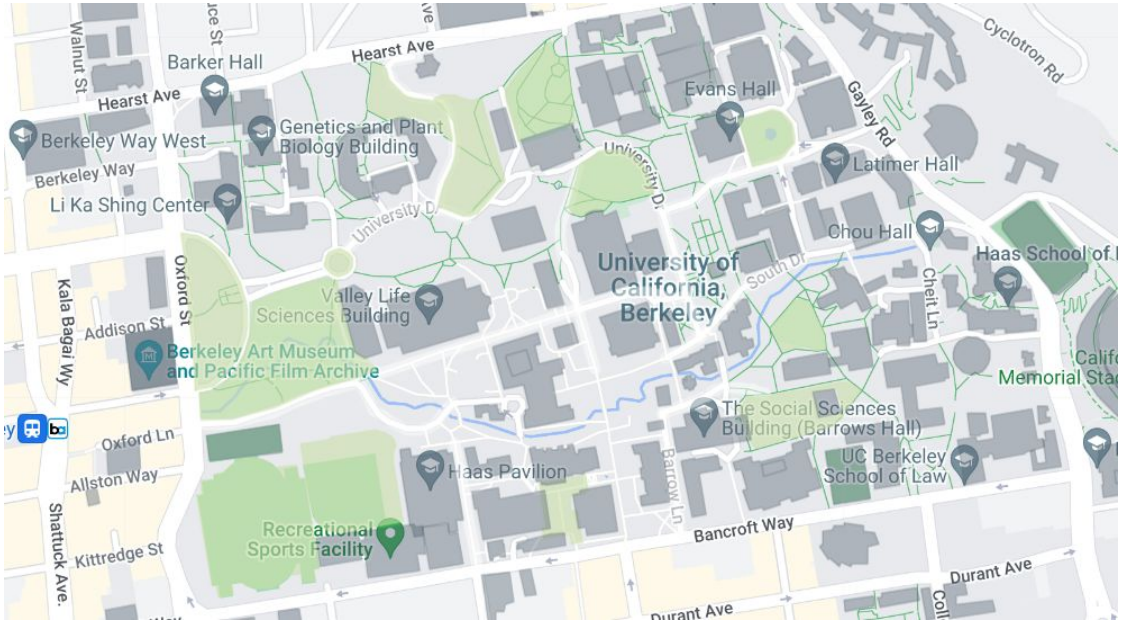
What is a “working directory”?

- The current file path that R is using and where it will “look” for files
  - R will assume I want to read in or write out files using this folder
- You can think of file paths as addresses
- Our files are in a **nested structure**

For more info see YaRR: A Pirate’s Guide to R chapter

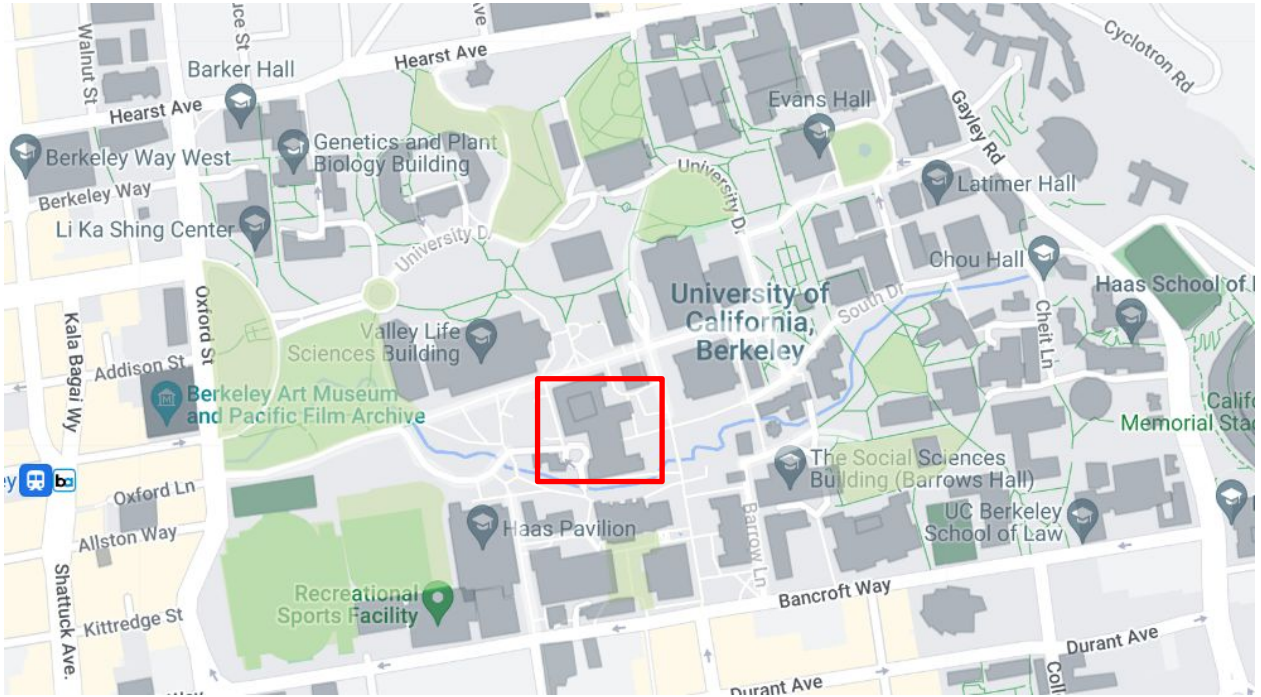
For instance….

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



Thank you Emily Rosenthal for these slides!

It’s in Dwinelle Hall



It’s in the basement!

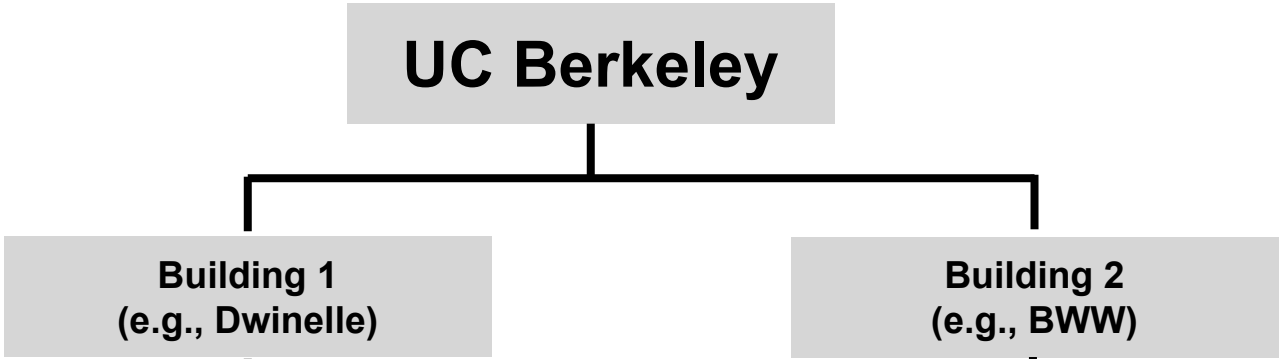
In room 75!

These have a **NESTED STRUCTURE**

UC Berkeley

Campus

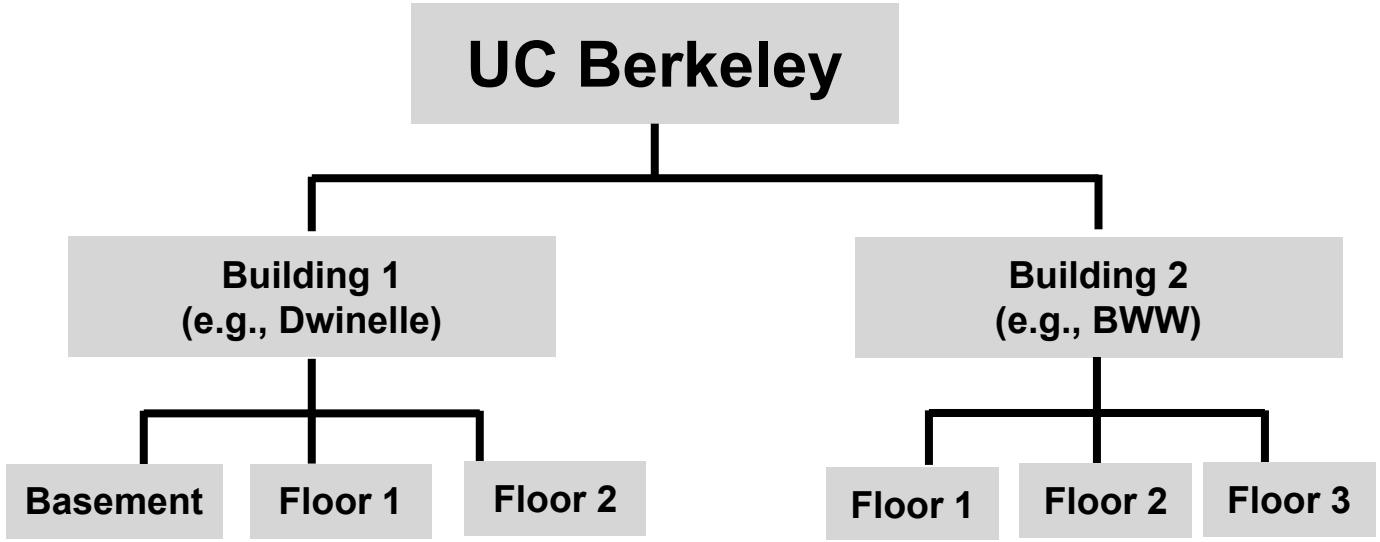
These have a **NESTED STRUCTURE**



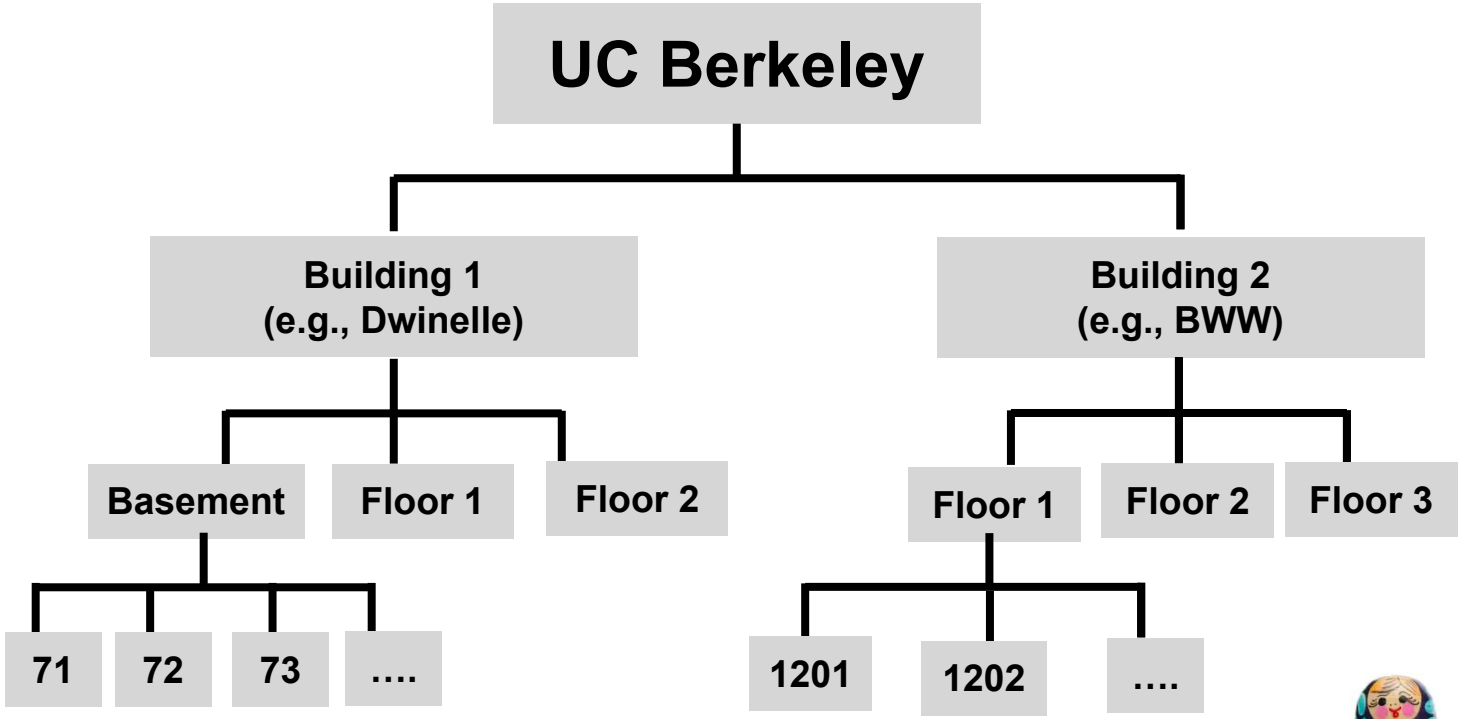
Campus

Building

These have a **NESTED STRUCTURE**



These have a **NESTED STRUCTURE**



Campus

Building

Floor

Room

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 where to look for the data file (it’s 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!

Our file organization for QuACK

quack2022

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

Our file organization for QuACK

quack2022

- data
- week1
- week2
- week3
- …

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

Our file organization for QuACK

quack2022

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

Each week has its own folder

Our file organization for QuACK

quack2022

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

Our file organization for QuACK

quack2022

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

Download the materials for this week (tinyurl.com/quack2022) and put all your files for quack in this structure!

Remember to unzip the folders each week!

Be sure to move the penguins csv and covid attitudes csv into the data folder!