"Typical" (old-school) Research Flow

Project Planning → Data Acquisition → Data Analysis → Publications
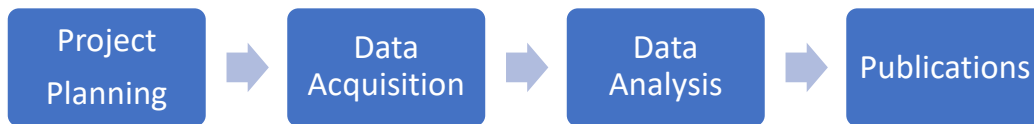
1

Contemporary "Research Data Life-Cycle"

Project Planning
includes plans for data management

Data Collection

Data Analysis

Publication & Data Archiving

Data Rediscovery & Reuse
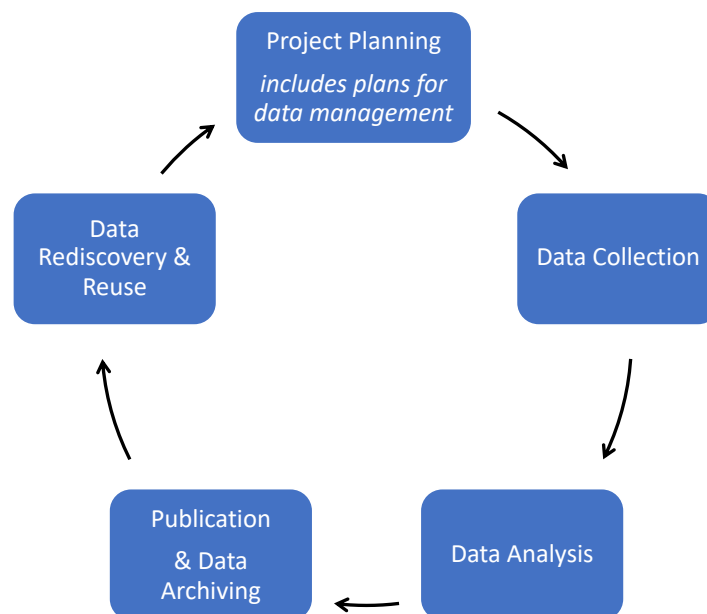
2

COURSE OUTLINE & CRITICAL DATES

Week	Dates	Topic
1	1/15	'Data' across disciplines and The Research Data Lifecycle
2	1/22	File Formats, naming conventions, data storage, & security
3	1/29	Structure & format of Data & Datasets
4	2/5	Reproducible data (re)organization
5	2/12	Data validation & correction 1
6	2/19	Data validation & correction 2
7	2/26	Documentation: Metadata, Codebooks
8	3/5	Data Management Plans
9	3/12	Efficient data collection
10	3/19	Transcription & Translation
11	3/26	'Paperless' data collection
12	4/2	Automated data extraction
13	4/9	Legal and Ethical Issues
14	4/16	Data Sharing, Reuse, & Archives
15	4/23	Reading Days – no class
Final	4/28	Submission of Final Projects by 5 pm

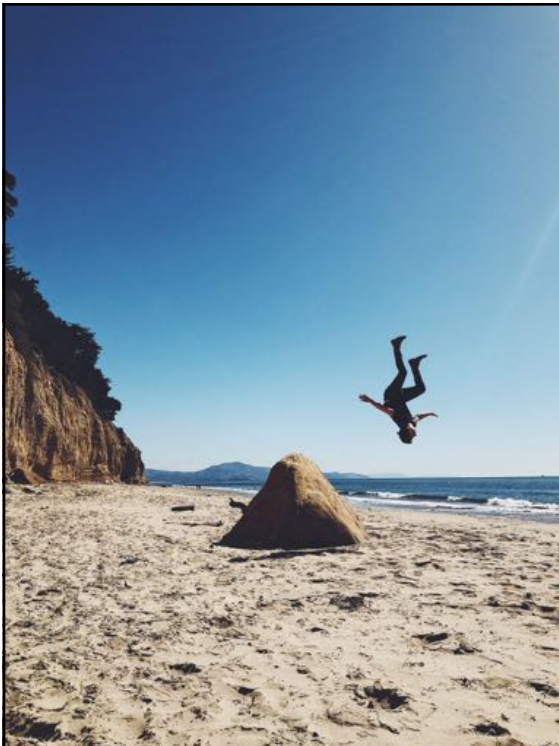My data are a mess…

…and I can't remember what some of these things mean.

If only I had planned…

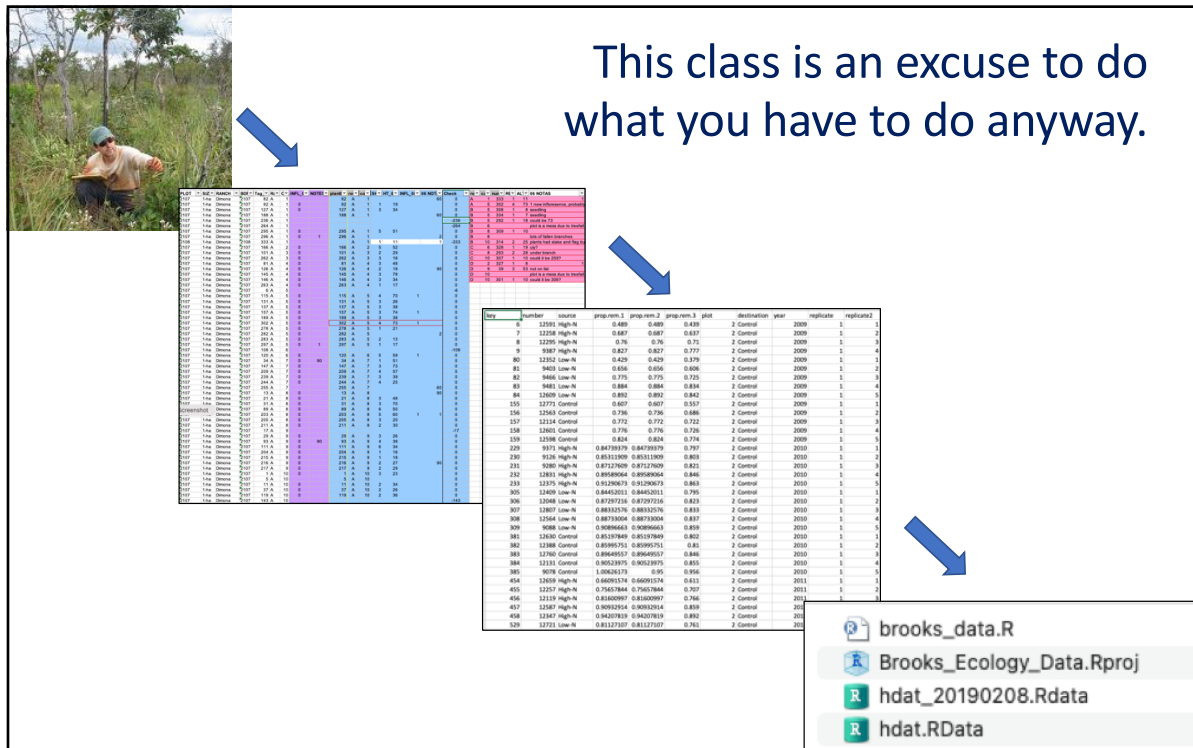…how I was going to collect & archive my data.

3

Before Class
Read, Watch, Reflect

During Class
Exercises to Reinforce
Discuss Readings
Work on Individual Project

4

This class is an excuse to do what you have to do anyway.

brooks_data.R
Brooks_Ecology_Data.Rproj
hdat_20190208.Rdata
hdat.RData

5

Let's find out a little more…

In-Class Exercise Wk. 1

6