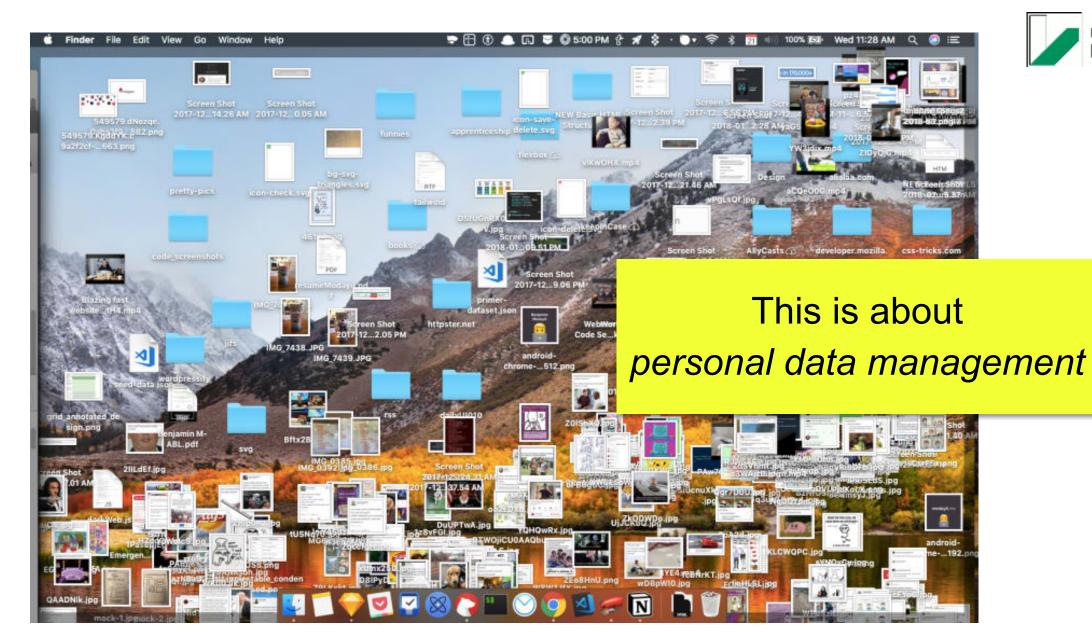




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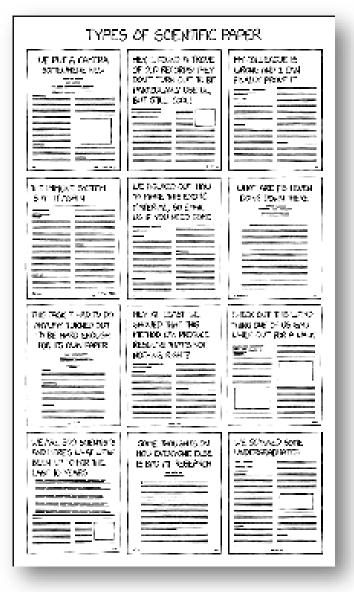




A typical data report

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- Cites other papers/journal articles/textbooks
- Presents experimental results/calculations
- Illustrates scenarios using drawings
- References items in the text
- Contains graphs



Basic principles of organizing your work



1. Leave a coherent record of your actions

Sustains reproducibility

Helps organizing references

Your future you will thank you at some point

2. Files and folders need to tell you what they are

Required to organize and document your draft papers, code snippets, datasets, and so on Also sustains reproducibility

Plain text files are easily searchable – a speaking filename might already be sufficient

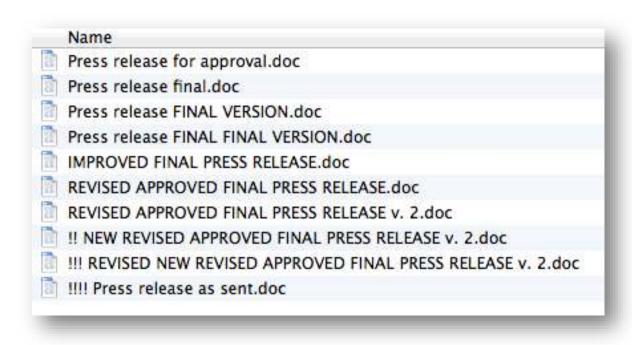
3. Automate repetitive and error-prone processes where possible

Makes it easier to check for mistakes because there is only one place to correct them

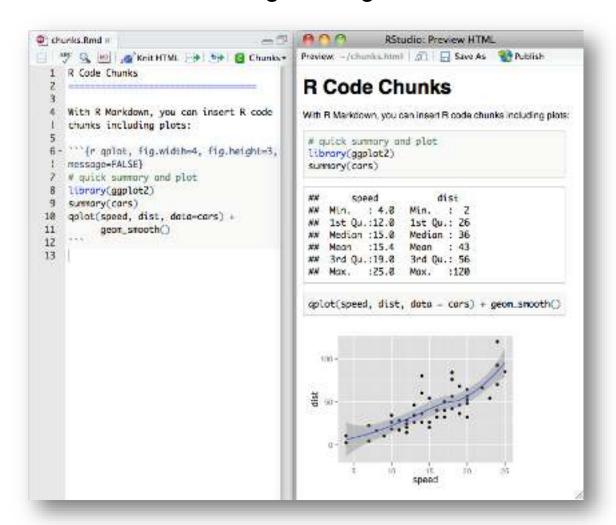
Two models of work



1. Office Model:



2. Engineering Model:



The difference between those models

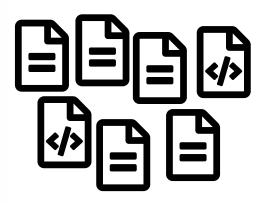


1. Office Model:



Basic principles of organizing your work are easier to implement using the engineering model.

2. Engineering Model:



A Word file is probably the center of your project

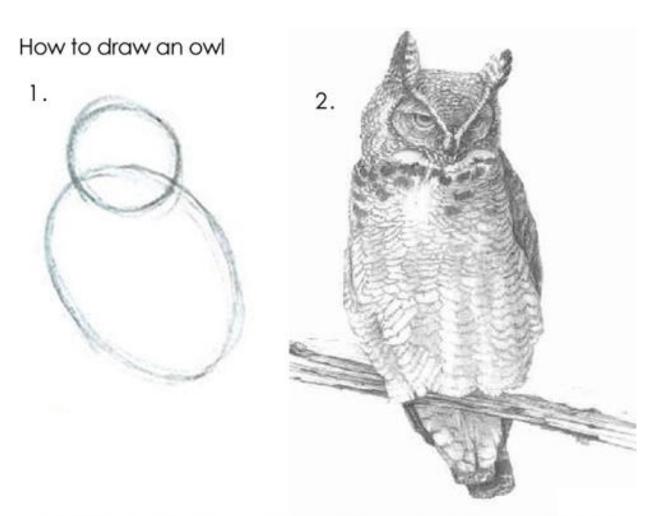
- Changes are tracked inside that file
- Citation & reference managers plug into Word
- Output of data analysis is pasted into the file
- Often, the word file is the output

The project is organized around a version control repository

- Changes are tracked outside of files
- Data analysis is kept in code that produces output in a known manner ideally reproducible
- Citation & references are kept in separate files
- Final output is assembled from a bunch of input files

How to get started





1. Draw some circles

2. Draw the rest of the fucking owl

Thanks.

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