Why should we practice 'Reproducible research'?

- Have you ever tried to reproduce someone else's data analysis before? Have you ever tried to reproduce your own work before?

- What made it easy/hard to do so?

- What would have to happen if you had to extend the analysis further?

- If you caught a data error how easy/hard would it be to re-create the analysis?

- What would happen if your collaborator is no longer available to walk you through their analysis? Or if you couldn't remember the steps?

Data Sharing and Management Snafu in 3 Short Acts

Scientific Integrity:

Rigor, trustworthiness, and transparency;
Allows others to verify analyses, find and correct mistakes

Community Good:

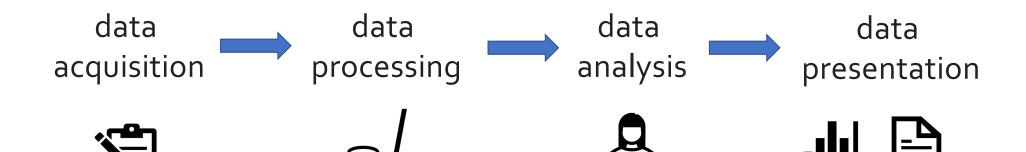Others can learn from your approach and methods

Efficient Research:

Helps you remember HOW and WHY you did something.

Speed up **this** project:
Automation makes it faster and easier to redo analyses. The time you save can be spent doing more important stuff.

Speed up **future** projects:
You can use the scripts from one project for another one.