

# Version Control with Git and GitHub

# WHY DO WE NEED VERSION CONTROL?

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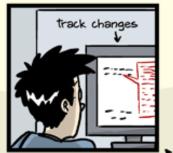






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# PROS OF IMPLEMENTING VERSION CONTROL

#### MACRO:

Good data management practices enhance scientific rigor by simplifying reproducibility efforts, promoting collaboration, etc.

#### MESO:

Larger-scale projects are often passed down from student to student. Pls work across projects with lots of different students.

#### MICRO:

Your #1 collaborator Is you from the past. Be nice to your favorite collaborator!



## NOBODY'S PERFECT

- Something is better than nothing
- You can start incorporating version control practices at any point in your research cycle
- Do what works for you with the time/effort trade-off in mind
- Look into existing standards for data management
- Consistency is key

# WHAT IS GIT AND GITHUB, EXACTLY?

git is a system for implementing local tracked changes to files on your computer, you can think of It as taking *snapshots* of changes over the life of a project

GitHub provides storage for remote git repositories online. It allows users to store and share their source code, as well as provides tools for browsing, collaborating on, and documenting code.





# WHAT IS GITHUB TYPICALLY USED FOR?

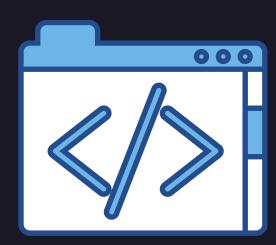
**Version Control** 

Collaborating

**Software Distribution** 







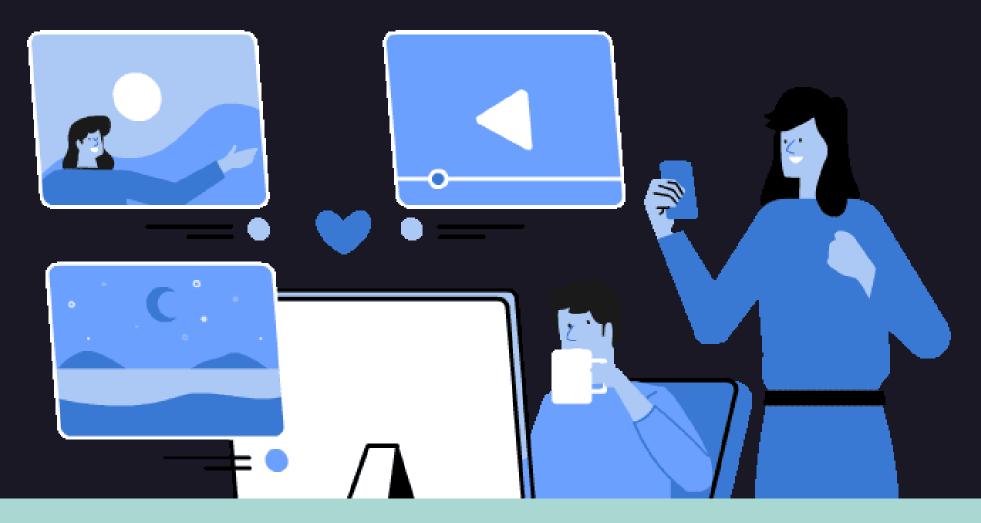
# WHAT WILL WE COVER TODAY?

### **Tutorial 1**

Setting up git
Create a local repo
Commit changes to a local repo
Add files to a GitHub repository

### **Tutorial 2**

Forking and cloning a repo from GitHub Updating a local repo with changes from the forked repo BONUS: Pull Requests



## LET'S GET STARTED!

