Introduction to Git

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Step 0: Installation

- Install Git: https://git-scm.com/downloads
- Easy Install for Linux
 - apt-get install git (Ubuntu/Debian)
 - yum install git (Fedora)
 - Others can be found at https://git-scm.com/download/linux
- This is all we need to get started. You can work with Git completely off-line.
- Make an account at https://github.com/ or https://bitbucket.org/ We will discuss differences between the two.

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While everything is downloading/installing...

What is Git?

- Git is a version control system
- As the name suggests, a system to manage different versions of a project
- A project in Git is called a repository/repo
- Git allows us to take it a step further with many other features
- Collaborating on a project is much simpler with Github/Bitbucket

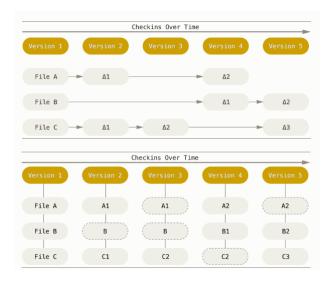






My Current Project

How does git work?



So why Git?

Advantages

- Allows you manage different versions of your project
- We can go back in time to previous versions
- Isn't restricted to specific type of projects (not just for computer scientists)
- Makes collaboration on a project really easy
- We have nice tools like GitHub and Bitbucket for collaboration and online sharing

Disadvantages

Initial learning curve, which we will overcome today

As promised Github vs. Bitbucket

Essentially, Github/Bitbucket is a remote location to store/share your repositories

	Github	Bitbucket
Cost	Free	Free
Public Repositories	Unlimited	Unlimited
Private Repositories	5 ¹	Unlimited
Collaborators	Unlimited	5^2

Table: 1. After student discount. 2. For the free account, can have upto unlimited collaborators with paid account.