

Version Control

A quick overview

Alejandro Morales
MSBI MATLAB Bootcamp








10/29/2018

What is version control?

- Keeping track of changes to files over time



Why use it?

STAT297 FINAL					Search STAT297 FIN	
	Name	Date modified	Type	Size		
	 final-draft	8/1/2017 3:48 PM	Microsoft Word D...			
	 final-draft2	8/3/2017 3:49 PM	Microsoft Word D...			
	 final-draft-final	8/3/2017 10:22 PM	Microsoft Word D...			
	 final-modified	8/8/2017 3:49 PM	Microsoft Word D...			
	 real-final-draft	8/9/2017 2:22 PM	Microsoft Word D...			
	 real-final-draft-v2	8/10/2017 12:33 PM	Microsoft Word D...			
	 final	8/11/2017 11:59 PM	Microsoft Word D...			

Git

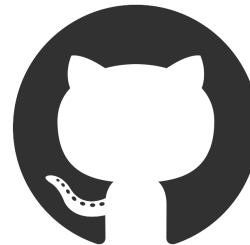
- An useful language/tool for version control
- Standard practice in industry and often in academia (catching up)
- Very marketable skill that will allow you to show your work to the world



git

How to use it?

- It is a language and it takes practice, just like MATLAB
- Complements, rather than replaces, other languages



Private Radiology GitLab



- A powerful collaborative tool for software version control as well as general lab organization
- Can be found on: <https://git.radiology.ucsf.edu>
- Need to request access by submitting an IT ticket

GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.



User Documentation Twiki

CAMPUS	Standard
CAMPUS Username	
<input type="text"/>	
Password	
<input type="password"/>	
<input type="checkbox"/> Remember me	
<input type="button" value="Sign in"/>	

[Explore](#) [Help](#) [About GitLab](#)

Privacy Notice

- As members of the UCSF Radiology Department your work may be proprietary UCSF intellectual property or may contain sensitive information about patients
- Always err in the side of caution when uploading your work to a repository by checking in with your supervisor or administrative staff

Tutorial

- Go to <https://github.com/alemorm/Git-Lesson-MSBI> to follow along the interactive tutorial
- You will need to login to your GitHub account and have the GitHub desktop application installed
- Form groups of 3-4 people around you