



git and Github

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2018

Version control in 2 parts

git through command line

git and Github

What is git?



git

git was originally developed by Linus Torvalds to store and version Linux

Who uses git?

Not just techies. Lots and lots of scientists, government employees, etc.

Version control:

System that tracks changes to files, such that the user can recall different versions at any time

Why use git?

"FINAL".doc



FINAL.doc!



FINAL_rev.2.doc



FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5.
CORRECTIONS.doc



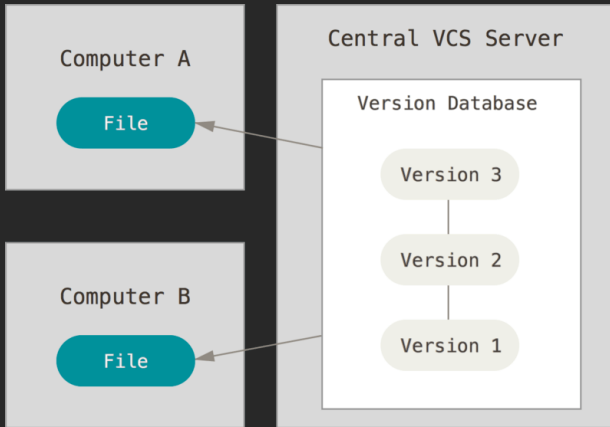
FINAL_rev.18.comments7.
corrections9.MORE.30.doc



FINAL_rev.22.comments49.
corrections.10.##\$%WHYDID
ICOMETOGRADSCHOOL????.doc

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How does git work?



How does git work?













A simple example

commands to cover: init, remote, add, commit, (push), status, (pull), branch, checkout

What is Github?

Who uses Github?

Rank	Organization	Star
1	 google	767253
2	 facebook	754310
3	 Microsoft	474776
4	 apache	340959
5	 freeCodeCamp	318318
6	 vuejs	266300
7	 airbnb	230072
8	 alibaba	226944
9	 angular	218022
10	 square	193667

Why use Github?

- Open data/code facilitates contributions
- Initiate collaborations
- Track issues
- Assign tasks
- Track progress (milestones)

Github repo != depositing data/code for manuscripts

A simple walkthrough

Create a repo. Push to it. File an issue. Create a branch. Create new content. Push. Pull request. Look at commit history and diff. Comment on a commit or issue. Reference an issue or commit in a comment. View milestones.

git with Rstudio

jennybc.github.io/2014-05-12-ubc/ubc-r/session03_git.html

git tutorials

try.github.io/
guides.github.com/
www.codecademy.com/learn/learn-git

git GUIs

git-scm.com/download/gui/windows
git-scm.com/download/gui/mac
git-scm.com/download/gui/linux

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