# suftware carpentry

University of Arkansas March 18-19, 2019

Git/GitHub

# LOG IN TO YOUR github.com ACCOUNT ~ NOW ~

- If you haven't created an account yet
  - go to github.com
  - create an account with your @uark.edu email
- Blue sticky up when you've logged in to GitHub ©

## "FINAL".doc



FINAL.doc!





FINAL\_rev.2.doc

Version Control

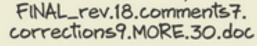


FINAL\_rev.6.COMMENTS.doc



FINAL\_rev.8.comments5. CORRECTIONS.doc







FINAL\_rev.22.comments49. corrections9.MORE.30.doc corrections.10.#@\$%WHYDID ICOMETOGRADSCHOOL????.doc



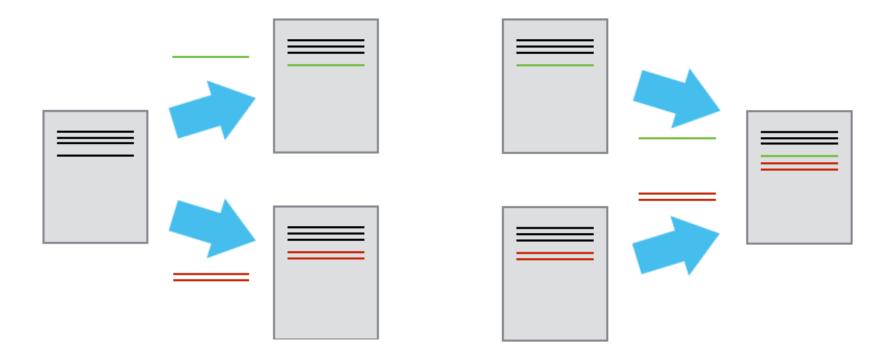
# Version control systems



- Recording of your progress
- Rewind to start at base document
- Play back each change made
- Arrive at most recent version

# Version control systems

- Two users making independent sets of changes on the same document
- Users incorporate changes into same base document and resolve conflicts



### Vocab

- Commit
  - Decide which changes will be made to the next version
  - Store metadata about the changes
- Repository (repo)
  - Consists of history of commits and their metadata
  - Can be kept in sync across different computers

How do you collaborate in workgroups?

On what types of files?

What about attrition from the group?

### Git vs. GitHub

Although they both allow collaboration, Git and GitHub are not the same thing

- Git
  - Open source version control tool
  - Command line interface
- GitHub
  - A company that hosts Git repositories on the web
  - Provides a web interface to interact with repos they host