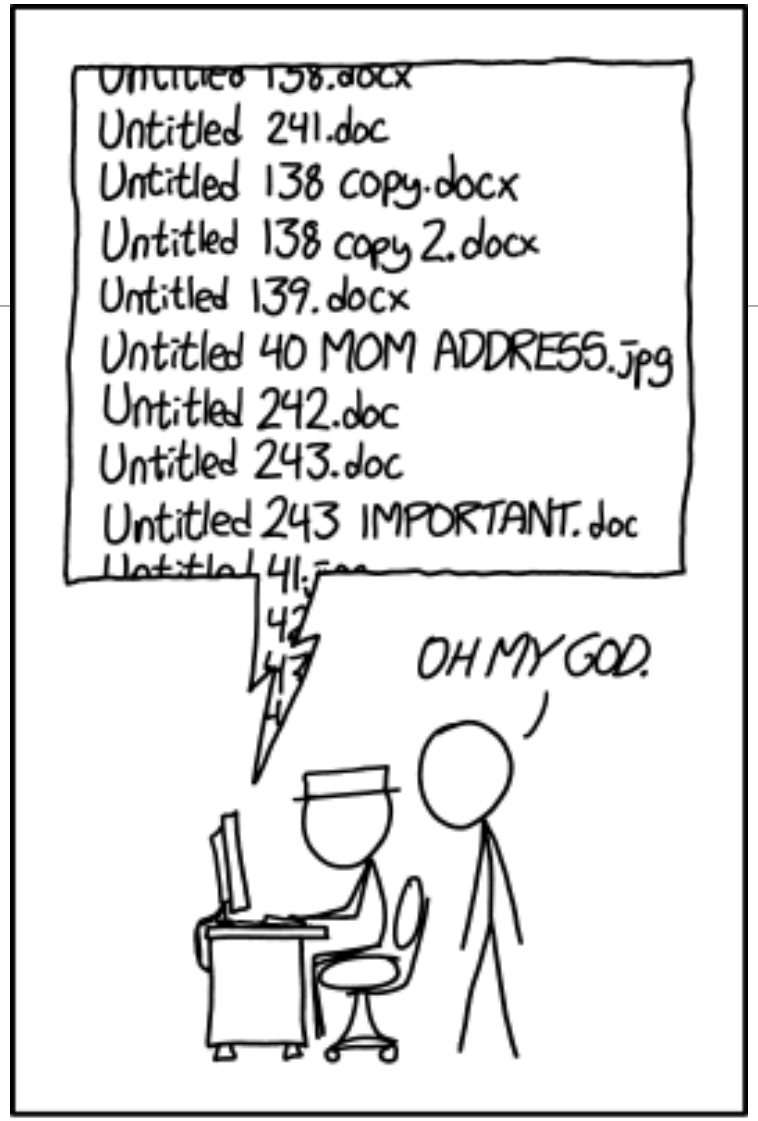
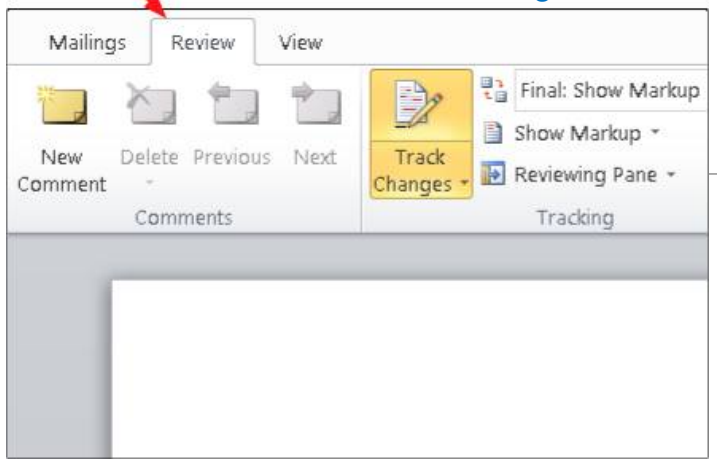
Git and Github

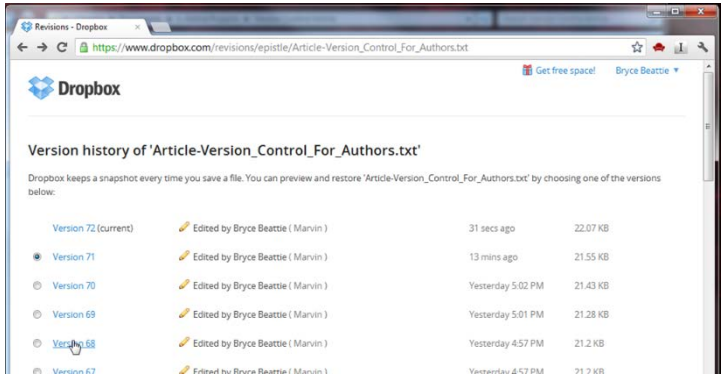
COURTNEY KEARNEY & CANDACE MAURICE

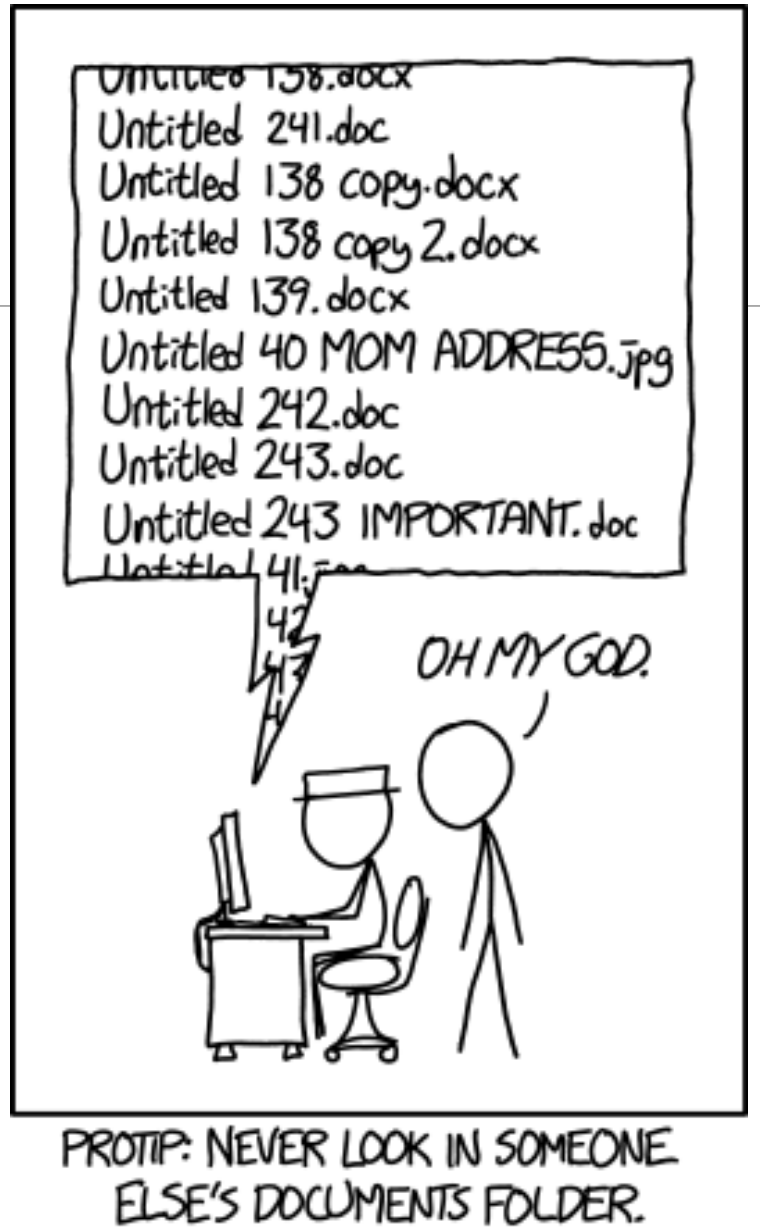


PROTIP: NEVER LOOK IN SOMEONE ELSE'S DOCUMENTS FOLDER.

Microsoft Track Changes







Google docs

git

Git (version control system)

2005

Free

Open Source

Comments

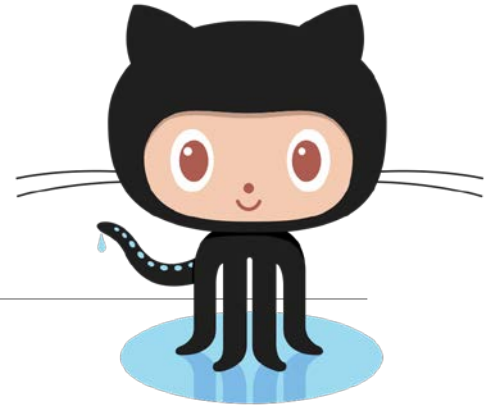
True Version Control

Collaborative

Archive

Text Files

Github (version control repository)



2008

Free if public

Social Network

Web-based; Desktop

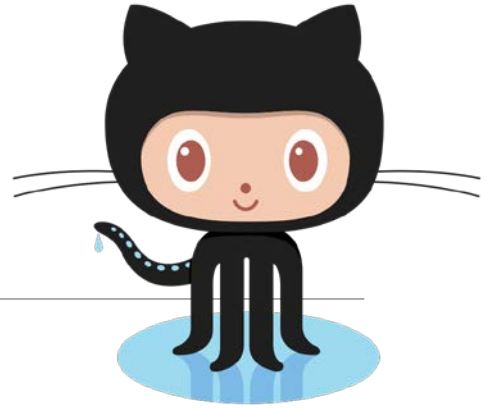
20 m users

57 m repositories

Website hosting

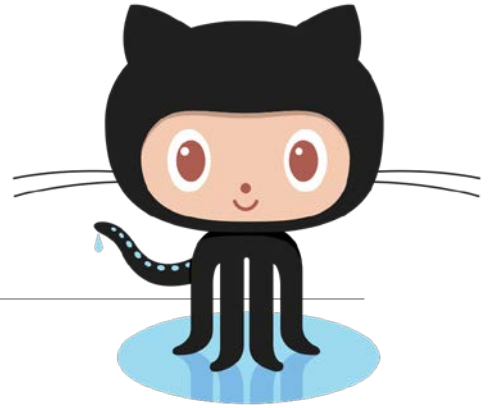
Store all file types

Github Examples



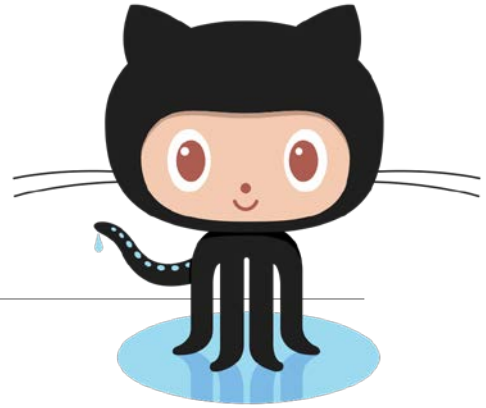
- Open Source DNA:
  https://scotch.io/bar-talk/announcing-the-open-sourcing-of-my-dna-on-github
  https://github.com/whatnickcodes/dna
- NYSenate.gov:
  https://www.nysenate.gov/
  https://github.com/nysenate/NYSenate.gov
- Course website/textbook:
  http://pushpullfork.com/musicianshipResources/
  https://github.com/kshaffer/musicianshipResources
  http://blogs.lse.ac.uk/impactofsocialsciences/2013/06/04/github-for-academics/
- 2017 Digital Scholarship Workshop (Knowlton):
  https://github.com/tech-at-arl/Digital-Scholarship-Institute

Github for Libraries



- Emphasis on transparency, open access, collaboration and sharing
- Archive of research/design process
- Collaboration with colleagues
- Share workshop material
- Source of information

Github: Cheatsheat



Readme: A text file that tells other people why your project is useful, what they can do with your project, and how they can use it.

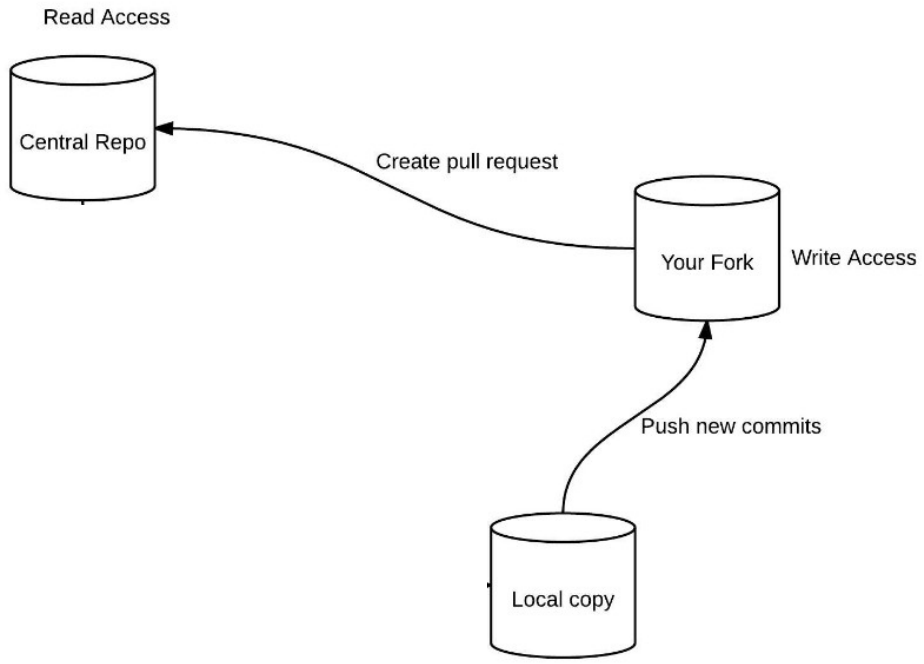
Fork: A copy of a repository within your Github account.

Clone: A copy (download) of a repository to your local computer.

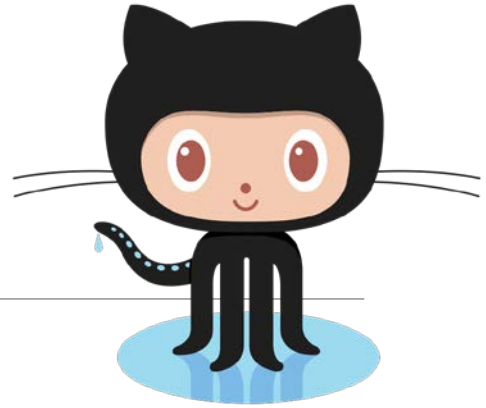
Commit: Records changes to the local repository.

Push: Records changes made in your local repository to the forked repository.

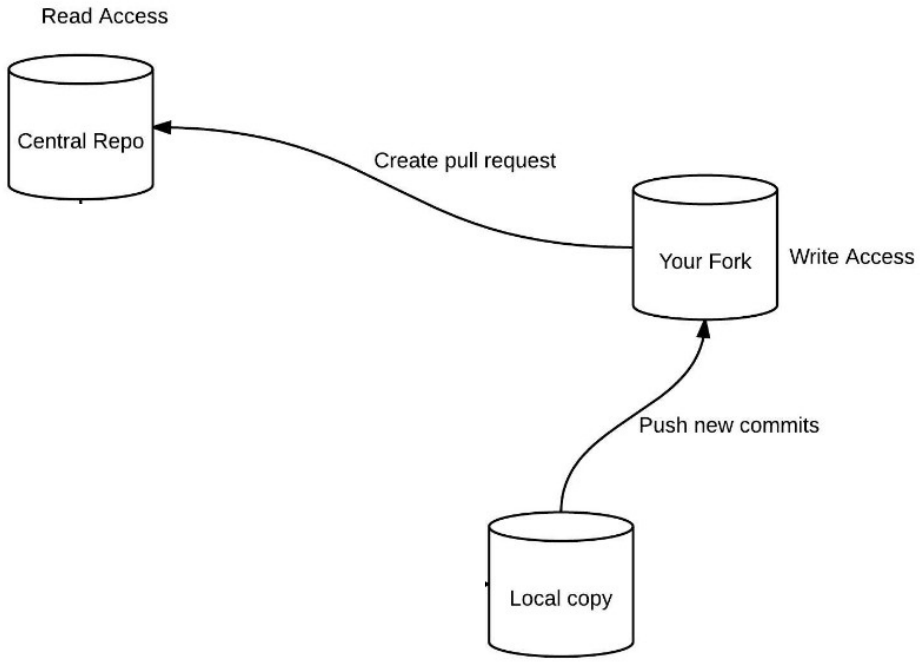
Pull request: Requests changes made in your fork to be included in the central repository.



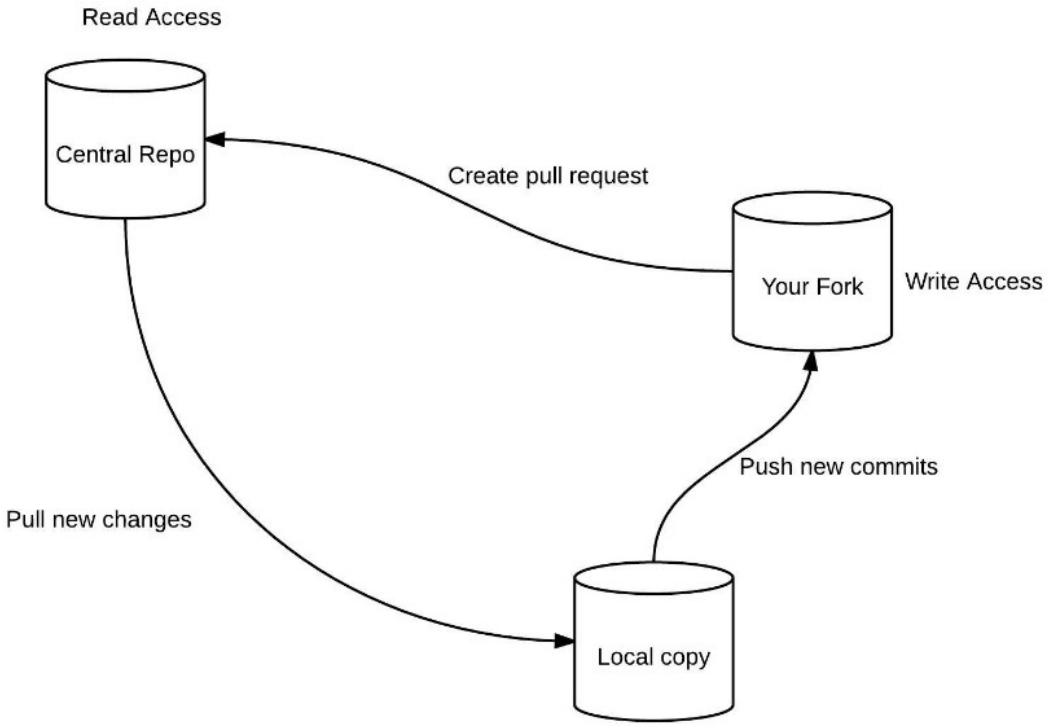
Github: Cheatsheat



1. Create Github account
2. Join the Howard-Tilton-Library organization
3. Explore the Github web-based interface
4. Fork GitGithub-Intro repository from H-T-L



How it works:



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“In a GitHub for science, each “paper” that researchers produce would reflect the complete and full record of an experiment—every lab note, every statistical script, every audio file, and every bit of computer code. ”

-Markus Banks

http://www.slate.com/articles/technology/future_tense/2017/04/we_need_a_github_for_academic_research.html

Manuscript Examples

Manuscripts:

https://github.com/greenelab/deep-review

https://github.com/greenelab/scihub

https://github.com/jdblischak/git-for-science