

Demo: GIT

Git

- Versioning control system for web sites and software development
- Created by Linus Torvalds to assist in the development Linux operating system
- Part of modern workflow for web development
- Keep track of changes made to files over time
- Full history of project
- Super “undo”
 - Make mistake and go back to previous version
 - Confidence to change anything
- Alternative branches
 - Experiment with different changes
 - Merge successful branches with master branch
 - Delete unsuccessful branches

Launch Terminal

- Applications > Utilities > Terminal
- OR launch Utilities (shift + command + u) from finder
- OR Spotlight Search (command + spacebar)
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Navigate to web site directory

- CD into site directory that you want to add git to
 - ls = list contents of pwd
 - cd = change directory
 - pwd = present working directory

Initialize Git Repository

- git init
 - creates hidden .git folder
 - view in terminal ls -la

Staging

- “saving a file” at its current state
 - git status
 - git add .
 - git status

Committing

- “printing a file” as a permanent record
- saving changes to history
 - git commit -m “first commit”
 - -m = message
 - describes why change was made
 - q to exit log

Log

- git log
- displays author name and email address (automatically assigned) and commit message
- lab fix
 - git config --global user.name "URfirstname URlastname"
 - git config --global user.email "you@colorado.edu"

Process

- write code
- terminal
 - git status
 - git add .
 - git status
 - git commit -m "commit message"

Super Undo

- git checkout "filename"

GitHub

- Store git repositories online
- Share code
- Collaborate on projects

Create GitHub account (free)

- <https://github.com>
- username, email address, password
- Signup for GitHub

Create new repository

- Repository Name
- Choose Public
- uncheck initialize this repository with a README
- Create repository
- Clone (copy github repository url)

Terminal

- cd into local git repository project
 - git remote add origin github-repo-url
 - git push -u origin master
- make change
 - git status
 - git add .
 - git commit -m "change description"
 - git push
- check GitHub to see new commit