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