

Git / HTML / CSS

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COMPSCI235 Lab 2

Learning Outcomes

- ▶ Make a Github Account
- ▶ Install Git on your computer
- ▶ Create a repository with Github and Git
- ▶ Using Git to clone/add/commit/push/fork
- ▶ Edit HTML and CSS Files

Why use Git?

Have you ever had assignments named:

- ▶ `assignment.py`
- ▶ `assignment-final.py`
- ▶ `assignment-actual-final.py`
- ▶ `assignment-submission.py`
- ▶ `assignment-final-final-submission.py`

Why use Git?

Have you ever had assignments named:

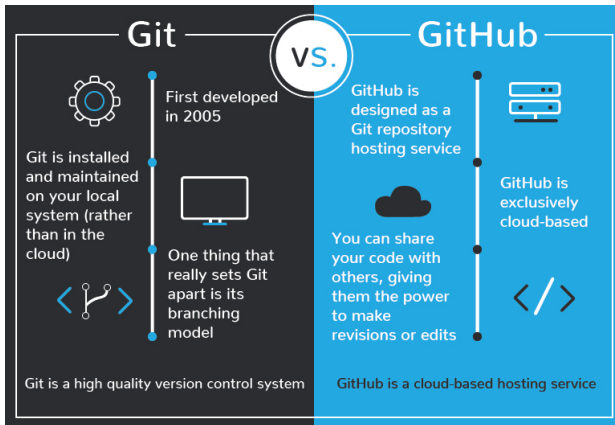
- ▶ `assignment.py`
- ▶ `assignment-final.py`
- ▶ `assignment-actual-final.py`
- ▶ `assignment-submission.py`
- ▶ `assignment-final-final-submission.py`

Well, Git tracks the changes you make to files, so you have a record of what has been done, and you can revert to specific versions should you ever need to.

Usage of Git throughout the course

- ▶ You will be using Git to track your files through some of the assignments
- ▶ You will also be submitting few assignments through Github so it is vital that you understand it

Git vs Github



Source of Image [here](#)

Installing Git

- ▶ Windows Users
 - ▶ Download from <https://git-scm.com/download/win>
- ▶ Mac Users
 - ▶ Check Git is installed by going to Terminal and running the command: `git --version`
 - ▶ If it doesn't show a version then you need to install Git, To do this download <https://brew.sh/> which is a package manager by running the specified command on terminal
 - ▶ Once Homebrew is installed run the command: `brew install git`
 - ▶ Run `git --version` once again to ensure Git has been installed

Configuring Git

Run these commands on the Terminal:

```
git config --global user.email your_email@gmail.com
git config --global user.name your-name
git config --global credential.helper store
```

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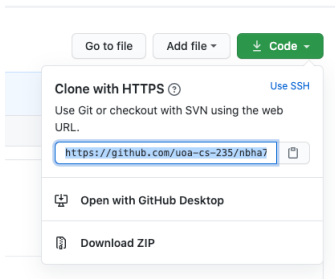
If you want you can use SSH keys for a more secure way of saving your credentials but for this tutorial this should be sufficient.

Creating a new repository

- ▶ Go to your profile and click on the "Repositories" tab
- ▶ Create new repository named: {your-upi}-235-lab2
- ▶ Give it an optional description
- ▶ Make sure the repository is public
- ▶ Make sure you have ticked "Initialize this repository with a README"
- ▶ Click on "Create Repository"

Clone

- Go to your repository and find its url and copy that



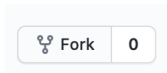
- Go to your terminal and run: `git clone <the url>` in a directory of your choice

Editing and Pushing to Github

- ▶ In one of these steps you may be asked for your Github Username and Password.
- ▶ Open up the README.md file and add some text introducing yourself
- ▶ Once this is done go back to the terminal
- ▶ Run `git add README.md`
- ▶ Run `git commit -m "Adding introduction to readme"`
- ▶ Run `git push` to actually push this change to your Github
- ▶ Link this repository on your lab report so we can make sure that you have completed this part of the exercise.

Forking a Repository

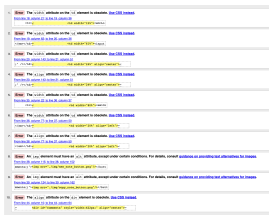
- ▶ When you fork a repository, you are copying that repository into your own personal account
- ▶ Daniel has made a repository to practice with: github.com/senddanemail/coffeebeanroast so fork that to your account with the button on the top right corner



- ▶ Go to your account and under repositories you will see that there is a copy of the repo you just forked
- ▶ You now clone this into your account by following the same steps as above

Playing around with HTML + CSS

- ▶ Open the project up in PyCharm
- ▶ Start running the project in your browser, make sure you can see the project running. Try understand how the HTML and CSS make up the page you see.
- ▶ Go to [this](#) link to validate the HTML. When you paste the HTML you should see a few errors



Fixing errors

- ▶ Go through the errors and try fix them one by one
- ▶ They provide some good hints such as making css id / classes instead of hard coding the styles
- ▶ The alt attribute provides alternative information for an image if a user for some reason cannot view it (because of slow connection, an error in the src attribute, or if the user uses a screen reader).
- ▶ The images **do not** have alt attributes so it is good to add a meaningful one
- ▶ At the end you should have no errors. Once this is done, push your changes to your Github like before and share the link with us in your report, we will be checking your code.

Useful Resources

- ▶ [Git and Github Crash Course](#)
- ▶ [Learn Git in 15 minutes!](#)
- ▶ [Introduction to Classes and IDs in HTML](#)