

Intro to Web Design and Development, Class 2

Git, The Terminal

Lesson Objectives

- Students will be able to create a new git repo, add files to it, and make a commit
- Students will feel comfortable using the command line for basic tasks, including changing directories, listing files, and creating new files
- Students will understand the basics of Cascading Style Sheets

Schedule

Part 1 - Git and the Terminal

1. The Terminal - the command line - a faster way to navigate your computer
2. Git - version control

- a. Set up git <https://help.github.com/articles/set-up-git>

- b. Learn the basic git flow:

```
$ git init
```

```
# for new projects to initialize a git repository,  
only done once per folder/project
```

```
$ git add -A
```

```
# add all recent changes that have been made to be  
"staged" for a commit
```

```
$ git commit -m "Initial commit"
```

```
# make your first git commit for the project
```

```
$ git status
```

```
# make sure the working directory is "clean" meaning  
all changes have been committed, or just see at what  
stage in the process you're at
```

Part 2 - CSS

1. What is CSS?
2. How do I add it to my website?

3. Selectors
4. Classes and IDs
5. Selectors
6. Attributes
7. Styling backgrounds
8. Element width and height
9. Basic text styling
10. Selecting Links
11. Styling Lists
12. More advanced element selection
13. CSS Exercise
14. Using Chrome developer tools

Bonus Material

1. Create a new folder and add a file to it. Navigate to this folder in the terminal and initialize an empty git repository. Make a commit with this file. Add another file to the folder then make another commit. Do this again with 3 more folders.
2. Learn how to use `git log`, `git reset --hard HEAD~1`, and `git branch`
3. Open up the Finder or Windows Explorer and navigate to a random folder. Now open up the terminal and get to that folder. Use `ls` to list all the files and make sure you're in the right place. Rinse and repeat.

Homework

Assignment

1. Add CSS styling to the webpage you created for the last assignment. You should use:
 - a. At least three classes and one id
 - b. Change the color or background color of at least one element
 - c. Set the height or width of at least one elementUse <http://www.w3schools.com/css> as a reference
2. Read A Command Line Primer for Beginners - <http://lifehacker.com/5633909/who-needs-a-mouse-learn-to-use-the-command-line-for-almost-anything>
3. Create a new folder and add a file to it. Navigate to this folder in the terminal and initialize an empty git repository. Make a commit with this file. Add another file to the folder then make another commit. Do this again with 3 more folders. **Let's completely solidify your basic git knowledge!**

Recommended Activity/References

CodeAcademy - <http://www.codecademy.com/tracks/web> - CSS Lessons

CodeSchool - <http://www.codeschool.com/courses/try-git> - Git Tutorial

Bash (Command Line) Keyboard Shortcuts - <http://ss64.com/bash/syntax-keyboard.html>

Eight Terminal Utilities Every OS X Command Line User Should Know

- <http://www.mitchchn.me/2014/os-x-terminal/>