💻 Activity D7: Development Workflow with Git

Re-submit Assignment

Due Jan 16 by 11:59pm **Points** 5 **Submitting** a file upload

For this assignment, do the following:

1. Install and learn to use a code editor. I recommend **Atom** (https://atom.io/). Other choices include:
   - **Sublime Text** (https://www.sublimetext.com/3)
   - **Brackets** (http://brackets.io/)
   - **Visual Studio Code** (https://code.visualstudio.com/)
   - **Vim** (https://vim.sourceforge.io/download.php)
   - **Emacs** (https://www.gnu.org/software/emacs/download.html)
2. On your local machine, create a directory called **portfolio**. Inside this directory, create a plain HTML file called **index.html** that is a portfolio of your work. This should include, at a minimum:
   - About: a short statement about you
   - Projects: a list of at least three projects you have worked on (it doesn't matter how simple they are)
   - Experience: a list of your work experience
   - Contact: a list of ways to contact you, including links to your LinkedIn, GitHub, or other accounts

   Your web page should use only HTML, no CSS, and should use the following HTML elements:
   - title
   - h1, h2 headers
   - paragraphs
   - lists
   - links
   - a horizontal rule

   See the **HTML** page for help.

3. On your local machine, inside your **portfolio** directory, start a local web server to test your code. Later we will do this with webpack. For now, you can use this python command for Python 3:

   ```
   python3 -m http.server
   ```

   or this command for Python 2:

   ```
   python -m SimpleHTTPServer
   ```

Both of these will open a web server that you can visit by going to localhost:8000 in a web browser. Test your web page to be sure it is working.

4. Create a repository on GitHub for this activity. I called my "portfolio". **Don't** check the box for adding a README file.

5. Inside of your **portfolio** directory, initialize a git repository with **git init**, add the GitHub repository as a remote, and push your code to GitHub. View your code on GitHub to be sure it is there.

```
git init
git add index.html
git commit -m "First commit"
git remote add origin git@github.com:zappala/portfolio
git push -u origin master
```

   Be sure to substitute your own username and repository name.

6. You are going to clone your git repository to your Digital Ocean server. Login to your DigitalOcean server with ssh and run this command:

```
mkdir ~/.ssh
```

   Then, for the git clone to work without a password, the ssh keys you have on your local machine must also be on the remote machine. To do this, run this command **from your local machine**:

```
scp ~/.ssh/id_rsa* zappala@104.236.65.193:/home/zappala/.ssh/
```

   Substitute your own username and IP address.

   Next, use `git clone` to clone your GitHub repository into your home directory. This will be in /home/[your username].

   You may need to run this command to give yourself ownership of the /var/www/html directory:

```
sudo chown -R [your username] /var/www/html
```

   Now copy your index.html file to /var/www/html. Note, so that you have ownership of all the files in /var/www/html.

7. Visit your server in a browser, using the IP address of your DigitalOcean machine, to verify it works.

8. On your local machine, make some kind of a change to your **index.html** file. Commit and push the changes to GiHub. Login to your DigitalOcean server and pull these changes and then copy them to **/var/www/html** again. Reload your browser. Be sure this all works. This is your development

workflow! We will be using this cycle regularly throughout the class.

9. Turn a screenshot of your web page, including the URL that shows it is on your Digital Ocean server. Congrats!