Prep Sheet: Github

Instructions

This prep sheet will make sure you are ready to work with `git` and github. `git` is a command-line tool for working collaboratively on (primarily coding) projects. It allows you to track any changes that you make to project files, and merge them with changes that other people make. It also allows you to develop projects in different directions, something called *branching*. Github is a Web site for storing and sharing your projects.

Complete all of the tasks below before the due date. While prep sheets are not graded, they are required assignments to ensure you do not fall behind by being unprepared.

Tasks

1. Go to the Github Web site (https://github.com/) and create an account. This is free!
2. On your computer, find and launch the **Terminal** app (or your command-line equivalent if not Terminal).
3. Type the command below followed by the Return key:

```
git
```

If you following the coding prep sheet, you should see instructions on how to use git. If you do not, notify your instructor immediately.

4. Change directory to somewhere memorable and easy to access. For example, I keep all of my github projects in a folder in my home directory:

```
cd ~/github
```

5. Type the command below followed by the Return key:

```
git clone https://github.com/wvuvectors/biol430.git
```

The clone command in git retrieves the remote repository that lives at the given URL. In this case, there is a public repository called "biol430" created by the github user wvuvectors (that's your instructor). You should see messages like the following scroll across your screen:

```
Cloning into 'biol430'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.
```

6. List the contents of the new biol430 folder:

```
ls biol430
```

You should see a README.md file and a LICENCE file. There may be other files and folders if other students have already added content.

7. Set up some basic user info in git, so you can keep track of your contributions:

```
git config --global user.name "FIRSTNAME LASTNAME"
git config --global user.email "ME@mix.wvu.edu"
git config  --global color.ui auto
```

Be Ready To...

Launch Terminal or your command-line equivalent software.

Navigate to the biol430 repository folder.

Make changes to the folder and sync those changes to the remote repository.

We will be working through this tuorial in class:

https://github.com/skills/introduction-to-github