**CS 389**

**GitHub**

Deadline: 2/5/2014 by 23:59 pm. Use the class time to do this work and seek help from your classmates.

In CS 389 we are using GitHub for code versioning, bug tracking, project management and project documentation.

The goal of this exercise is to get you started with GitHub. Even if you are using GitHub regularly you need to do this exercise.

**Part 1:**

Install GitHub bash <http://git-scm.com/downloads> and browse the documentation. Create an account if you do not have one.

**Part 2:**

What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform? (Answer between 5 and 10 lines)

The product of Tom Preston-Werner, Chris Wanstrath, and PJ Hyett, GitHub is a “hub” that lets software developers collaborate without the need of a common network; in addition, it provides organization of code, files, and much more. GitHub went live in April of 2008, being created mainly for programming management. However, the site also benefits almost anyone who uses a computer. Similar platforms include Allura, Beanstalk, and Launchpad. As mentioned, people use such platforms as a means of keeping track of repositories, blogs, and bug reports, as well as maintaining software, especially if it’s open-source.

**Part 3:**

Go through the Git tutorial here: <https://try.github.io/levels/1/challenges/1>. While doing the tutorial, save your work in a Word file called FirstnameLastnameGitTutorial-mm-dd-yyyy.docx.

**Part 4:**

Define the following terms (in 2 lines maximum) in the context of Git:

* Repository: location where data is being stored and managed
* Commit: records and adds changes to the repository
* Push: transfers your most recent commit to a remote location
* Branch: an active line of development
* Fork: makes a copy of a repository that is modified whenever the original is altered
* Merge: brings content from another branch to the current one so that it can be used
* Clone: obtain a duplicate of a repository so that you may make independent changes
* Pull: gets a branch and merge it
* Pull request: allows you to inform other people about modifications pushed to a repository

**Part 5:**

Push the Word file in your GitHub account in a repository called *cs389spring2015*. You will use this repository this semester.

**Part 6:**

Retrieve the file README.md at:

<https://github.com/paceuniversity/courses>

Add your name (firstname lastname) in the file, add a comment, and update the file README.md at: <https://github.com/paceuniversity/courses>.

List the commands and strategy you use to do this part of the exercise.

Please note that the changes must be in <https://github.com/paceuniversity/courses> (my repository).

Please note that I may have to accept the change before it appears for you.

**Part 7:**

Add an issue with title “GitHub training” in your repository called cs389spring2015. Issues will be used for tasks and bug reports.

**Part 8:**

Edit the main page of the wiki in your repository called cs389spring2015. Add the title “CS 389 Spring 2015” to the page. The wiki will be used for documenting the project.

**Part 9:**

Put the information about your GitHub account in the file here:

<https://docs.google.com/spreadsheets/d/14vYl8zjw_AX6mJZ5DzLwTObvtDs4hqCtxK6fPWWfgWY/edit#gid=0>

The link you will put should be of the form: <https://github.com/yourpseudo/cs389spring2015>.

I will check your work directly on GitHub using the information you provided.

Please note that the file needs to be organized in alphabetical order.

**~~Part 10:~~****~~(only for people who had and used GitHub before this class)~~**

~~What is your experience with GitHub? Describe it in 5-10 lines.~~

**~~Part 11: (only for people who had and used GitHub before this class)~~**

~~Check what GitHub has to say about you:~~ [~~http://osrc.dfm.io/~~](http://osrc.dfm.io/)

~~(Unfortunately the link is broken as of now but it should be up again sooner!)~~

**References and more resources:**

Tutorials

<https://try.github.io/levels/1/challenges/1>

<https://help.github.com/>

<https://guides.github.com/activities/hello-world/>

<https://www.udacity.com/course/ud775>

Software  
<http://git-scm.com>

Videos

<https://www.youtube.com/watch?v=73I5dRucCds>  
<https://www.youtube.com/watch?v=0fKg7e37bQE>

<https://www.codeschool.com/paths/git>

Who are you on Git?

<http://osrc.dfm.io>