**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)

Git hub is a web-based Git repository hosting service that allows all the distributed revision control and source code management functionality of Git. The development of Github began on the first of October 2007 and was launched in April 2008. It was launched and created Tom Preston-Werner, Chris Wanstrath, and PJ Hyett. It was created to easily share files and ideas. Programs similar to Github are SourceForge, Bitbucket, Redmine, Luanchpad, and Google Code Hosting. The use of such a platform would mainly be for ease of access to files and other type of materials from a group.

**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- a central location in which data is stored and managed
* Commit- pledge or bind to a certain course or policy
* Push- a style of internet based communication where the request for a given transaction is initiated by a publisher or central server
* Branch- used to create a timeline of revisions and additions, a branch can help someone look back to fix issues or bugs.
* Fork- A copy made of an existing repository
* Merge- this shows changes on a master branch which can help a person see changes to an initial master.
* Clone- this is a copy of a repository on one’s computer.
* Pull- allows one to receive an up-to-date version of a repository
* Pull request-

**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/>

(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>