CS 3321 or INFO 3307/5307
Homework 0 – Getting Ready!

Assigned: First Day of Class
Due: No Due Date

Purpose

- To ensure that you have the necessary tools to succeed in this class.

Instructions

1. Install Git on Your System

- Follow the instructions at https://git-scm.com/book/en/v2/Getting-Started-Installing-Git

2. Create a GitHub account if you do not already have one.

- If you have never setup a GitHub account, follow the instructions at: https://git-scm.com/book/en/v2/GitHub-Account-Setup-and-Configuration to do this.

3. If you are unfamiliar with the tools please complete the following tutorials:

- Git: Learn Git Branching, just complete the first three sections at: https://learngitbranching.js.org/

    - https://www.youtube.com/watch?v=HVsySz-h9r4
    - https://www.youtube.com/watch?v=SWYqp7iY_Tc
    - https://www.youtube.com/watch?v=Y9XZQO1n_7c

Exercise

- Create a new repository in GitHub
- Create a new folder for the repository on your system
- Clone the repository on your local system
- Add a README.md file to your local copy
- Add the following to the README.md file "First Text"
- Commit and push your changes to the remote github server
- Verify on github that you can see your changes.
- Create a new branch called "development"

- Checkout the "development" branch.
- Modify README.md in the development branch to include "Dev Text"
- Commit and push your changes to the remote github server
- Verify on github that you can see your changes.
- Checkout "master"
- Create a new branch called "test"
- Checkout "test"
- Verify that the changes to README.md in "development" are not in the README.md for "test"
- Add a new line to README.md: "Test Text"
- Commit and push your changes to the remote github server.
- Checkout "master"
- Merge the changes from "test" to "master"
- Commit and Push the changes to "master" to the remote github server.
- Verify that these changes exist on GitHub
- Create a new branch called "branch3"
- Checkout "development"
- Merge the changes to "master" to "development"
- Figure out how to resolve the merge conflict this created.
- Once resolved, commit and push your changes to "development" to the remote github server
- Verify that these changes exist on GitHub
- Tag the repository as "complete"
- Push the tag to your repository on GitHub
- Verify that all of the branches and tags are on GitHub

Submission

- Submit only the URL to your repository on GitHub.

Grading (20 Points)

- (10 points) Repository contains 4 branches (master, development, test, branch3) and 1 tag (complete)
- (5 points) The README.md in "master" and "test" contains the following text:

```
First Text
Test Text
```

- (5 points) The README.md in "development" contains the following text:

```
First Text
Test Text
Dev Text
```