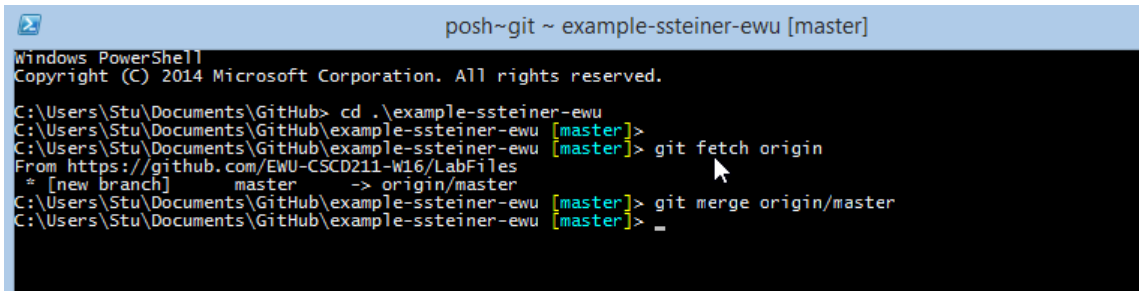
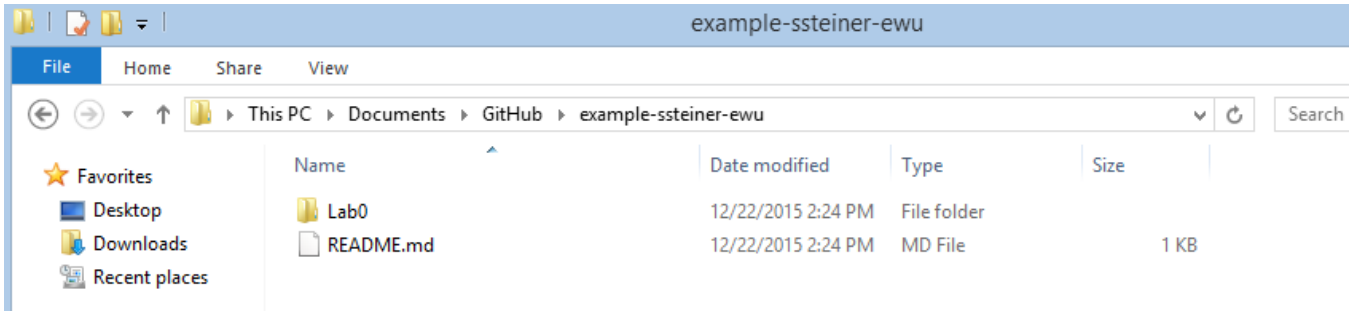
Git Basics

Obtaining the Latest Copy of the Lab Files

- To obtain the latest version of the stating lab files
  - Open Git Shell and change to the assignments directory.
  - Execute the command git fetch labs
  - Execute the command git merge labs/master.



The above commands will pull the lab files from the public GitHub repository and place them into your your local working directory within a folder named Lab and the lab number. (Note: Lab is capitalized and there is no space between Lab and the lab number.) We will follow the naming scheme of Lab# (Example Lab0). You can't/won't change the Lab naming scheme. All work will always be within the Lab# directory.



At this time, you only have a local copy of the lab files. Your private GitHub repository does not contain these files.

Open your favorite syntax highlighting editor, jGrasp, and write your Java code. Ensure your code compiles.

Once you make changes to the local files, and you ensure the code compiles and runs, then you will commit those files to your online private GitHub repository.

Updating your Private GitHub Repository

Since you made changes to your code, and these changes were only done locally you must update your private GitHub repository.

- Open Git Shell and change to the assignments directory. Don't change to the lab directory.

```
Windows PowerShell
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C:\Users\Stu\Documents\GitHub> cd .\example-ssteiner-ewu
C:\Users\Stu\Documents\GitHub\example-ssteiner-ewu [master]>
```

- Add the files you changed by typing:

  git add Lab#/filename Note you can use Wildcards such as *

  The git add command adds a change in the working directory to the staging area. It tells Git that you want to include updates to a particular file in the next commit. However, git add doesn't really affect the repository in any significant way—changes are not actually recorded until you run git commit.

- When you are ready to update your private GitHub repository you need to comit the changes by executing the command

  git commit Lab# -m "Some Descriptive Message for the Changes"

- Now push the changes to your private GitHub Repository with the command

  git push origin master

```
Windows PowerShell
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C:\Users\Stu\Documents\GitHub> cd .\example-ssteiner-ewu
C:\Users\Stu\Documents\GitHub\example-ssteiner-ewu [master +0 ~1 -0]> git add Lab0/CSCD211Lab0Methods.java
C:\Users\Stu\Documents\GitHub\example-ssteiner-ewu [master +0 ~1 -0]> git commit Lab0 -m "Stubbed Methods"
[master 655b8cc] Stubbed Methods
 1 file changed, 1 insertion(+), 1 deletion(-)
C:\Users\Stu\Documents\GitHub\example-ssteiner-ewu [master]> git push origin master
Counting objects: 18, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (16/16), done.
Writing objects: 100% (18/18), 61.51 KiB | 0 bytes/s, done.
Total 18 (delta 2), reused 0 (delta 0)
To https://github.com/EWU-CSCD211-W16/example-ssteiner-ewu
 * [new branch]      master -> master
C:\Users\Stu\Documents\GitHub\example-ssteiner-ewu [master]>
```

- When the push command completes, your GitHub repository will be updated with your changes