

Git/GitHub Homework

```
$ echo "Data Sciences Institute"  
$ echo "by: Rachael Lam"
```

Expectations

The goal of this homework is not to grade the competency of what was learned, but to give students an opportunity to practice. This will help students remember the content and prepare for the next class.

Because each class builds upon the last, it's important to review the content, as time is too limited for a full in-class review.

Day 1

To Review:

Please practice the following commands. You can either work with a new repo, or one that you are currently working on.

1. initialize a new repo `git init`
2. clone a new or existing repo `git clone`
3. see status of files in repo `git status`
4. add files to be staged `git add`
5. see changes between files `git diff`
6. remove files `git rm`
7. move files `git mv`

- Remember to practice with different options.
- You can make test files and folders if you don't want to delete anything.
- Continuously practicing will drill these commands into your memory so it will become easier with time.

Day 2

To Review:

Please practice the following commands. Attempt to move around your commits (forwards and backwards).

1. see history of commits `git log`
2. changing a commit `--amend`
3. unstage a file `git reset`
4. revert to original file and to previous commit `git checkout`

5. add remote repo `git remote`
6. fetch new changes from remote repo `git fetch` / `git pull`
7. push changes to remote repo `git push`
8. create new branch `git branch`
9. change working branch `git checkout`
10. merge branches `git merge`

Also practicing pushing and pulling to remote branches.

Day 3

To Review

There are several GitHub Skills courses that will help you practice collaborative processes. Please review the following:

1. [Pull Requests](#)
2. [Merge Conflicts](#)
3. [Markdown](#)