

Say you've got an invitation to one of our GitHub Classroom homework assignments: <https://classroom.github.com/a/AmHVYtmW>. After accepting the assignment, you'll have access to a private repository for this specific assignment within your GitHub account. Submitting an assignment will generally follow these steps: copy the assignment from the GitHub repository, edit files, and push the files back up to the assignment's repository. I will then grade your assignment from your repository.

With a working installation of git on your machine (see [HW02](#)), you will generally follow these steps from within a bash terminal where

```
$ which git
```

successfully returns a path and you are in a reasonable directory structure for your homework assignments, eg

```
$ cd ~/...wherever.../math314/homework/
```

1. **clone** – copy the assignment to your machine.

This will copy the entire repository (directory on GitHub) to your current working directory `$ pwd`. Be sure you're in a reasonable directory before executing the below command.

```
$ git clone https://github.com/chicomath314/hw03_estimate_probability-roualdes.git  
# this is my repository for HW03, you need to find your own for each assignment
```

2. **edit** – do the homework assignment as appropriate.

Since all homework assignments are turned in as RMarkdown documents, open a `.Rmd` file within your current working directory. Edit the file and compile the source code into either an HTML or PDF. You will submit the compiled file, not the source code.

3. **status** – check the status of local git directory.

If you followed through on step 3, notice that all added or edited files are now marked as modified and/or not tracked. Pushing **edits** to a repository is a three step process: **add**, **commit**, **push**. We will execute the following status check after each step to help us learn Git as we go.

```
$ git status
```

4. **add** – stage your added/modified files.

For reasons we won't explain in this class, before you can finalize your edits we must stage the files we wish to push. Assume you want to submit the file `HW03.html`. To stage this file execute

```
$ git add HW03.html
```

You need to call this command for each new file you want to **add**.

**NB** If, in this step, I find that you are taking shortcuts that make my life more difficult I will subtract points from your homework assignment.

5. **status** – check the status of local git directory.

Check the status after adding a file.

```
$ git status
```

6. **commit** – confirm the added changes.

Committing some changes to your local git directory is the formal way to lock in some edits (locally).

```
$ git commit -m "a short message describing the edits goes here in quotes"
```

7. **status** – check the status of local git directory.

Check the status after committing a file.

```
$ git status
```

8. **push** – push the committed changes.

Pushing to your remote repository (the one I can see on GitHub) is the formal way to lock in some edits (remotely).

```
$ git push
```

You can confirm that your homework was properly submit by viewing the GitHub repository online. The repository we've been working with is located at [https://github.com/chicomath314/hw03\\_estimate\\_probability\\_roualdes](https://github.com/chicomath314/hw03_estimate_probability_roualdes), which you won't be able to see because it's private. It's highlighted here so you can see that it's nearly the same link as the one we cloned from.