

## **PRE-REQ:**

- 1) User needs to create their keys (per the current lab guide, Section 3, Exercises: 1, 2).
- 2) Create an account on [github.com](https://github.com)
- 3) Upload keys onto [github.com](https://github.com)
  - a. Account Settings, “SSH and GPH Keys” (on left pane), then select “New SSSH Key” (upper right)

## **METHOD 1 (simplest)**

- 1) Using your web browser, create a new repo on [github.com](https://github.com). For this example, call it “new-repo”, (but don’t add any files to it)
- 2) clone this “new-repo” onto your computer:  
cd to the directory you want to store your github repository then issue the following command in your terminal window:  
git clone <https://github.com/<user-name>/new-repo>
- 3) add files as needed in the new-repo directory on your computer.
- 4) add/commit/push as needed – (use exact commands)

## **METHOD 2**

- 1) create new local directory on your computer
  - cd into your new local directory
  - type ‘git init’
- 2) add files as needed
- 3) add/commit as needed – (use exact commands)
- 4) got to [github.com](https://github.com) and create a new-repo. Name it the exact name as your local directory you already created. (don’t add any files into it)
- 5) In your local directory enter:
  - git remote add origin <https://github.com/<user-name>/<repo name you just created>>
  - git push —set-upstream origin master

### **METHOD 3 (making an exact duplicate)**

- 1) create a new repo on [github.com](https://github.com) (call it “new-repo” for example)
- 2) on your desktop:
  - git clone —bare <https://github.com/exampleuser/<old-repo>.git>  
(this would be a source repo you want a copy of)
- 3) cd old-repo.git
  - git push —mirror <https://github.com/exampleuser/new-repo.git>
- 4) cd ..
  - rm -rf <old-repo>.git
- 5) git clone <https://github.com/exampleuser/new-repo>

### **METHOD 4 [forking, used to create separate work stream (versions of code) with your collaborators]**

- 1) Using your web browser, find the repo you want to fork on [github.com](https://github.com). Github will add this forked branch to your github repos.
- 2) Clone this repo to your laptop following the steps from method 1.2
- 3) You can add, edit etc.. add/commit/push etc... this forked branch.

*If you wish, at some point in your develop lifecycle you'd have the option of merging this fork with the original repo*