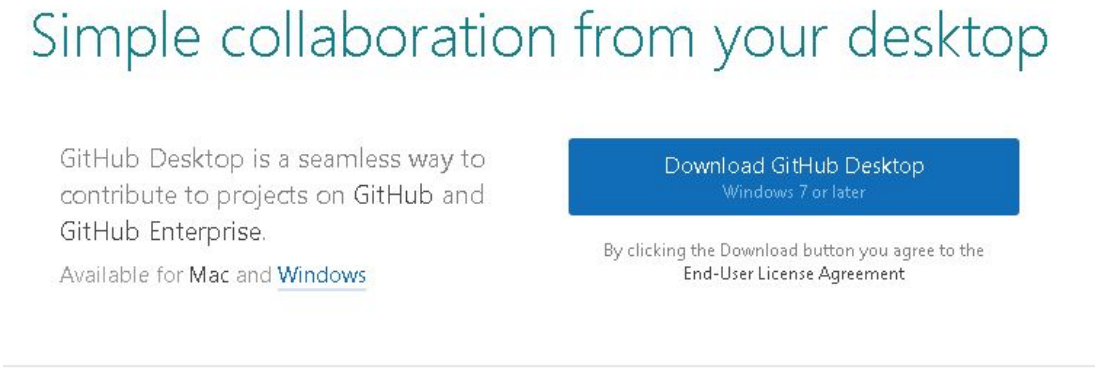
Install Git

https://git-scm.com/downloads

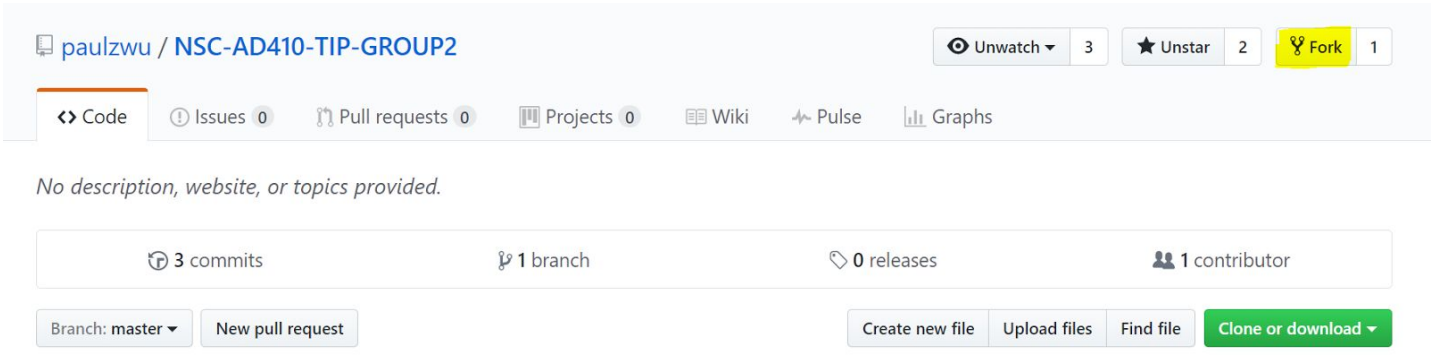
Install GitHub Desktop

https://desktop.github.com/

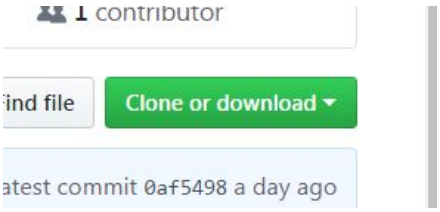


Fork repository to your Github account

https://github.com/paulzwu/NSC-AD410-TIP-GROUP2



Clone your repository as zip file or copy link and clone from command line or GUI



Extract downloaded repository to GitHub folder on your system and import git project in Eclipse (repository needs to be initialized first...see command below)

Commands

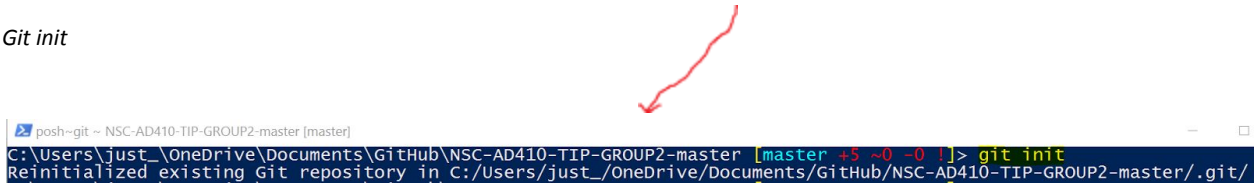
Clone your repo into GitHub folder (under Documents folder by default)

Git clone https://github.com/yourGithubHandle/NSC-AD410-TIP-GROUP2.git

```
C:\Users\just_\OneDrive\Documents\GitHub> git clone https://github.com/paulzwu/NSC-AD410-TIP-GROUP2.git
Cloning into 'NSC-AD410-TIP-GROUP2'...
remote: Counting objects: 12, done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 12 (delta 1), reused 8 (delta 0), pack-reused 0
Unpacking objects: 100% (12/12), done.
Checking connectivity... done.
```

Initialize repository **(make sure you're in the project's directory)**

Git init



Add remote repo to pull from master repo

Git remote add upstream https://github.com/paulzwu/NSC-AD410-TIP-GROUP2.git

```
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]> git remote -v
origin  https://github.com/just255/NSC-AD410-TIP-GROUP2.git (fetch)
origin  https://github.com/just255/NSC-AD410-TIP-GROUP2.git (push)
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]> git remote add upstream https://github.com/pau
lzwu/NSC-AD410-TIP-GROUP2.git
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]> git remote -v
origin  https://github.com/just255/NSC-AD410-TIP-GROUP2.git (fetch)
origin  https://github.com/just255/NSC-AD410-TIP-GROUP2.git (push)
upstream        https://github.com/paulzwu/NSC-AD410-TIP-GROUP2.git (fetch)
upstream        https://github.com/paulzwu/NSC-AD410-TIP-GROUP2.git (push)
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]>
```

Pull updated repository from project master

Git pull upstream master

```
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]> git pull upstream master
From https://github.com/paulzwu/NSC-AD410-TIP-GROUP2
 * branch            master     -> FETCH_HEAD
 * [new branch]      master     -> upstream/master
Already up-to-date.
```

Create new branch from your repository

Git checkout -b NameOfBranch

```
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]> git checkout -b MyBranch
Switched to a new branch 'MyBranch'
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [MyBranch]>
```

Switch branches

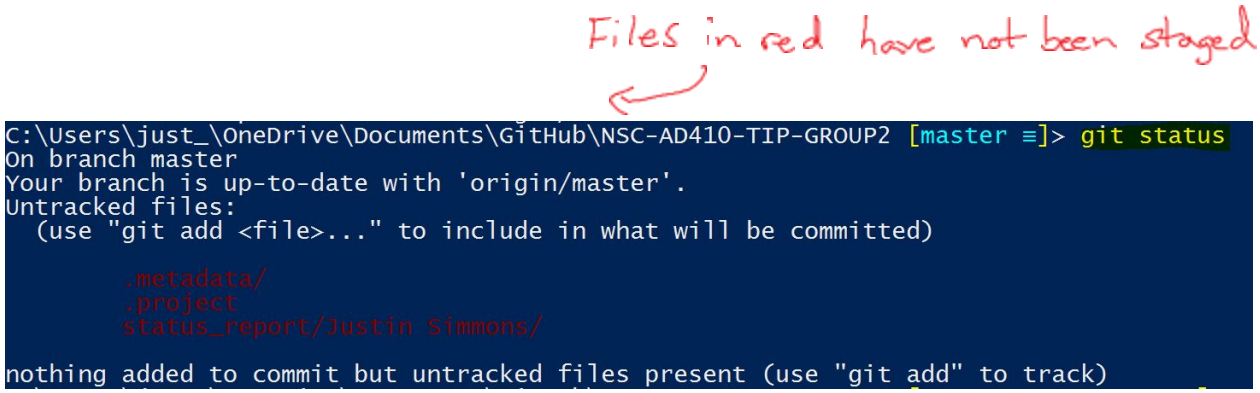
Git checkout NameOfBranch

```
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [MyBranch]> git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
C:\Users\just_\OneDrive\Documents\GitHub\NSC-AD410-TIP-GROUP2 [master ≡]>
```

Make your edits to local files

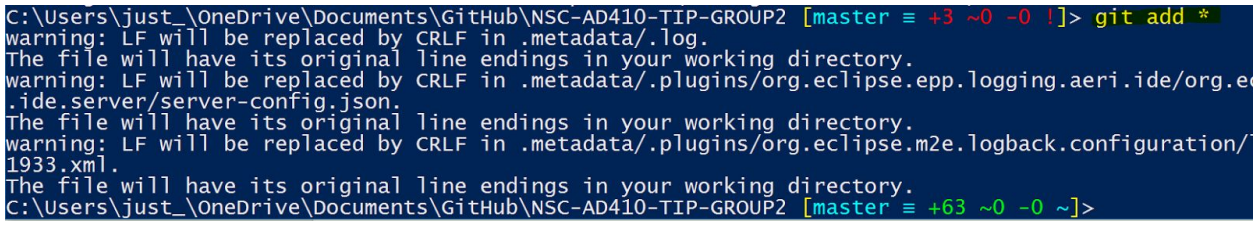
Status of branch

Git status (Files you've edited are shown to not be staged yet-see below)



Stage files

*Git add * or git add filename (hint: Press tab after typing 'git add' to cycle files)*



Commit staged files to your local machine

Git commit -m "Type a brief description"

Switch to master branch

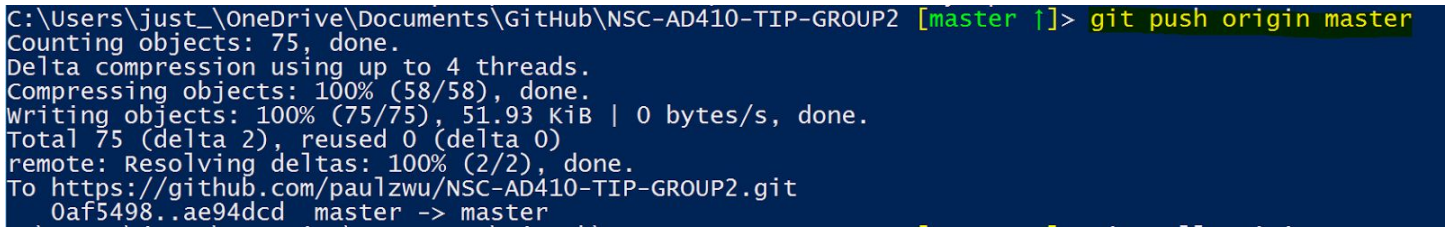
git checkout master

Merge branch into master

Git merge nameOfBranch (make sure you're in master branch)

Push changes to your github repository

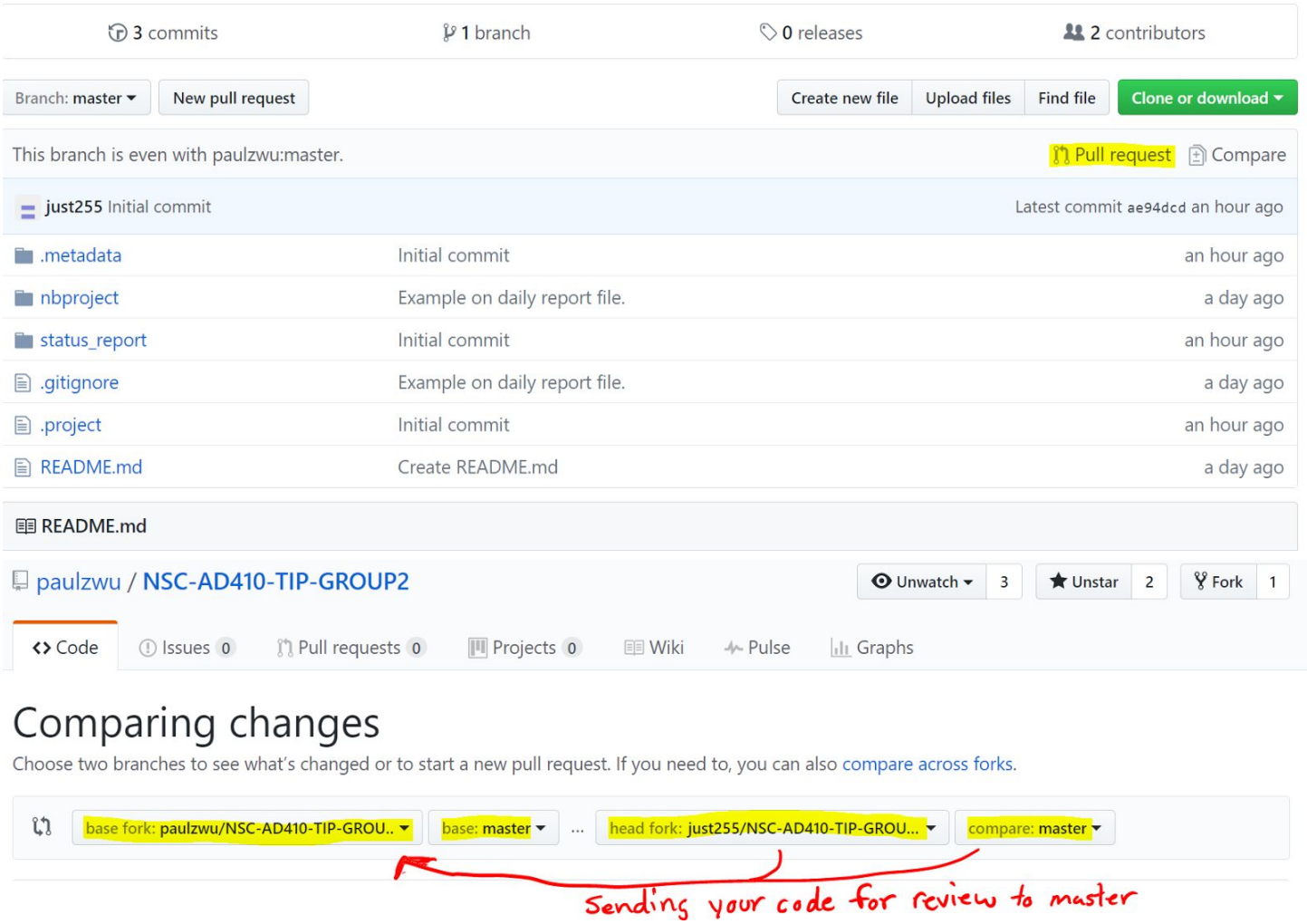
Git push origin master



GitHub

Send your code up for review (pull request)

Go to your Github account and find the project's repo and click pull request



Only one pull request is needed until your code is committed to the master. For example, if your code is reviewed and needs changes, you only need to commit and push your changes to your github. The changes will show in the pull request. Once your pull request is committed to the master, you will need to create a new one to send more code for review.

Syncing a fork

from: https://help.github.com/articles/syncing-a-fork/

Sync a fork of a repository to keep it up-to-date with the upstream repository.

Before you can sync your fork with an upstream repository, you must configure a remote that points to the upstream repository in Git.

1. Open Terminal or Git Bash
2. Change the current working directory to your local project.
3. Fetch the branches and their respective commits from the upstream repository. Commits to `master` will be stored in a local branch, `upstream/master`.
4. `git fetch upstream`

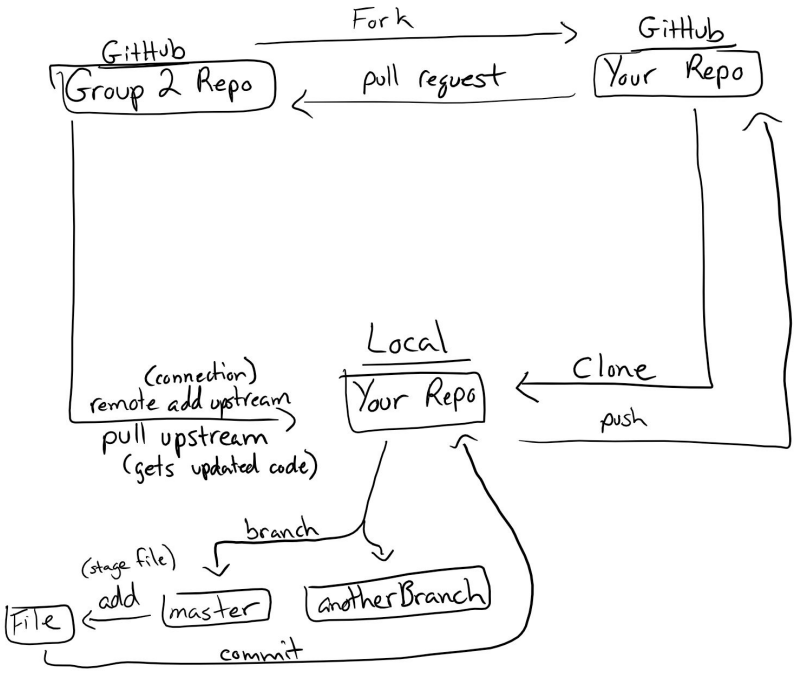
```
remote: Counting objects: 75, done.
remote: Compressing objects: 100% (53/53), done.
remote: Total 62 (delta 27), reused 44 (delta 9)
Unpacking objects: 100% (62/62), done.
From https://github.com/ORIGINAL_OWNER/ORIGINAL_REPOSITORY
 * [new branch]      master     -> upstream/master
```

5. Check out your fork's local `master` branch.
6. ```
   git checkout master
   Switched to branch 'master'
   ```

7. Merge the changes from `upstream/master` into your local `master` branch. This brings your fork's `master` branch into sync with the upstream repository, without losing your local changes.
8. ```
   git merge upstream/master
   Updating a422352..5fdff0f
   Fast-forward
    README                    |    9 -------
    README.md                 |    7 ++++++
    2 files changed, 7 insertions(+), 9 deletions(-)
    delete mode 100644 README
    create mode 100644 README.md
   ```

9. If your local branch didn't have any unique commits, Git will instead perform a "fast-forward":
10. ```
    git merge upstream/master
    Updating 34e91da..16c56ad
    Fast-forward
     README.md                 |    5 +++--
     1 file changed, 3 insertions(+), 2 deletions(-)
    ```

Tip: Syncing your fork only updates your local copy of the repository. To update your fork on GitHub, you must push your changes.


    ```