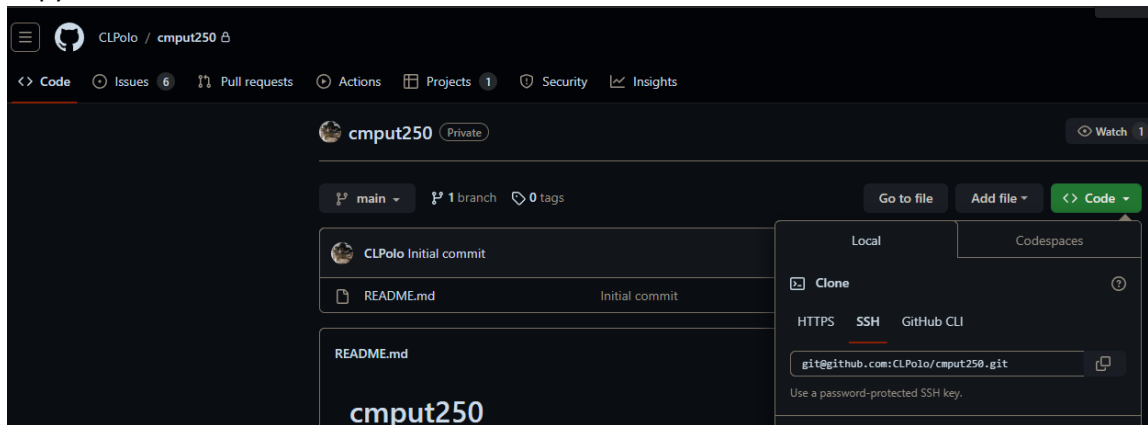


Part 1: Installing Git (if you don't already have it)

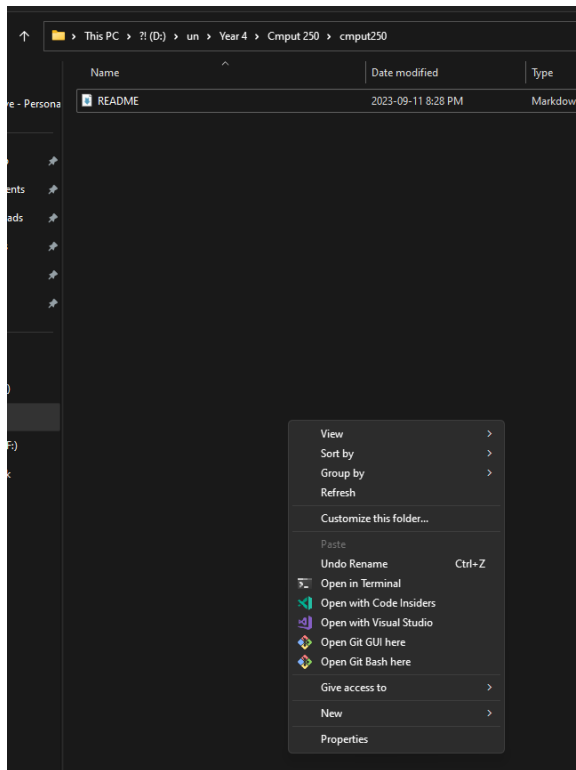
1. <https://git-scm.com/> download the installer from here.
2. Run the installer.
 - a. Ensure git bash is installed (this will allow showing branch names by the directory path)
3. That's it you are done!

Part 2: Accessing the git repository

1. Go to the repository: <https://github.com/CLPolo/cmpu250>
2. If you do not already have a github ssh key set up, you will need to set up an ssh key and register it on your device, see the following github documentation:
<https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent>
3. Copy the ssh link from the code section:



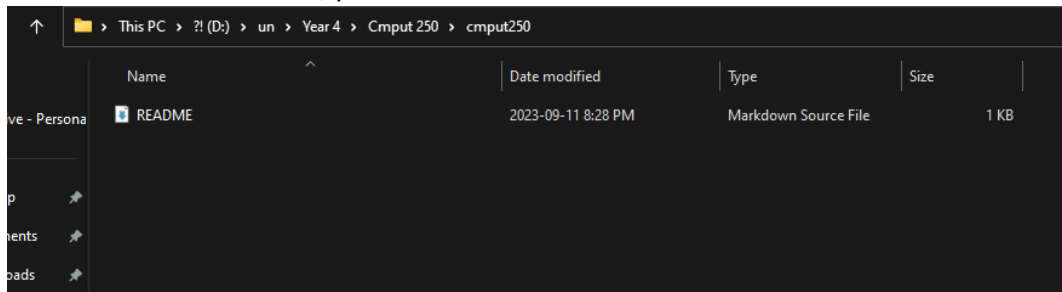
4. Open git bash (right click > show more options first) where you want the repository to be located on your local system:



5. Type ``git clone <ssh-link>`` replacing `<ssh-link>` with the link previously copied

```
Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmput 250
$ git clone git@github.com:CLPollo/cmp250.git
```

6. The files will now be there, you are done!



Part 2: Adding to the git repository

1. Traverse into the repository using ``CD: cmp250`` from the previous folder

```
Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmput 250
$ cd cmp250

Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmput 250/cmp250 (main)
$ |
```

2. Create a branch for your changes using ``git branch <branch-name>`` (detailed names help) and switch to it ``git switch <branch-name>``
 - a. Alternatively use ``git brsw <branch-name>`` to create and switch to it (assuming config is set up, see last page for git configs)
 - b. **NOTE:** branches are created from the **CURRENT** branch, switch to the main branch before you create new branches, it's also common practice to pull all changes before creating the branch to prevent merge conflicts in the future

```
Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmpu250/cmpu250 (main)
$ git branch adding-git-instructions-to-repo

Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmpu250/cmpu250 (main)
$ git switch adding-git-instructions-to-repo
Switched to branch 'adding-git-instructions-to-repo'

Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmpu250/cmpu250 (adding-git-instructions-to-repo)
$ |
```

3. Make any changes to the file system as needed and type ``git add --all`` to add your changes to the selection of tracked files, then type ``git commit -m "<message>"`` to create a commit

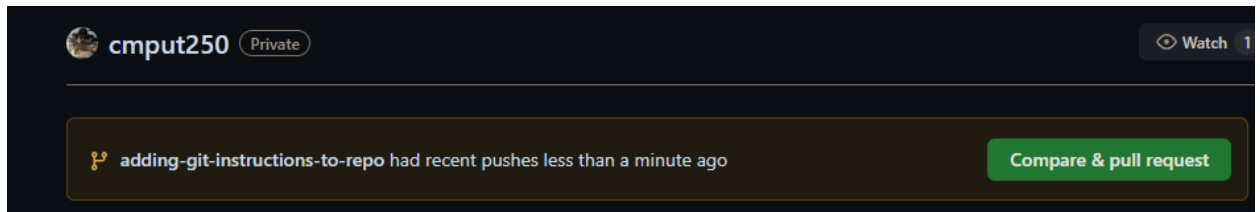
```
Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmpu250/cmpu250 (adding-git-instructions-to-repo)
$ git add --all

Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmpu250/cmpu250 (adding-git-instructions-to-repo)
$ git commit -m "added a word document with instructions on using git"
[adding-git-instructions-to-repo 03a984a] added a word document with instructions on using git
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Documentation/Git Setup Help.docx
create mode 100644 Documentation/~$t Setup Help.docx
```

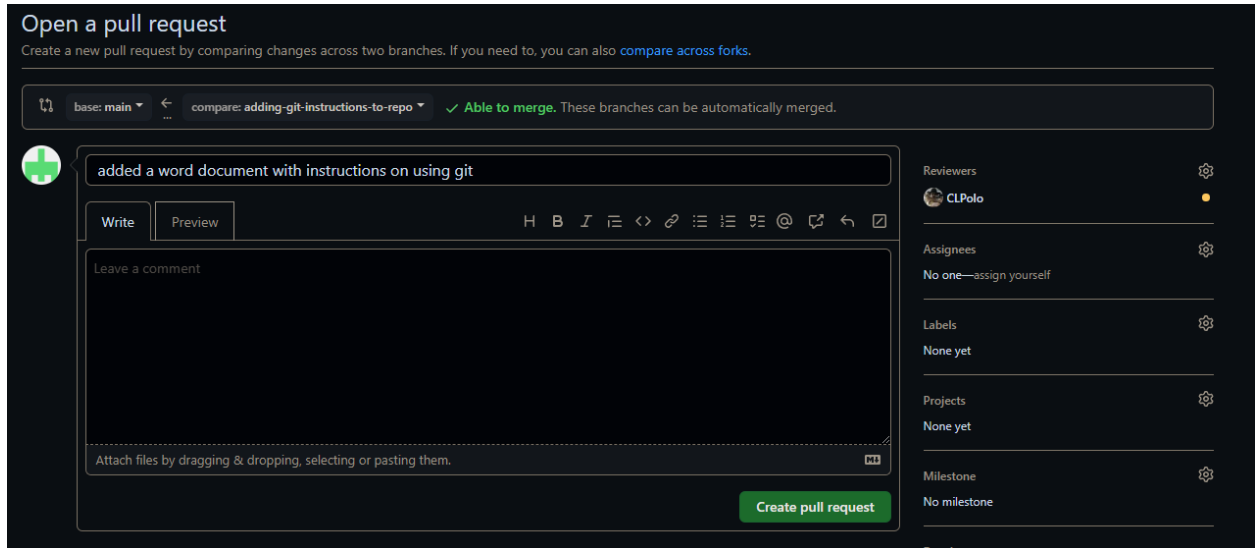
4. Push your changes using ``git push --set-upstream origin <branch-name>`` (or simply ``git pushu`` if config is set up [see last page])

```
Gurtaj K@Desktop310 MINGW64 /d/un/Year 4/Cmpu250/cmpu250 (adding-git-instructions-to-repo)
$ git push --set-upstream origin adding-git-instructions-to-repo
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 6 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 141.49 KiB | 2.48 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'adding-git-instructions-to-repo' on GitHub by visiting:
remote:   https://github.com/CLPolo/cmpu250/pull/new/adding-git-instructions-to-repo
remote:
To github.com:CLPolo/cmpu250.git
 * [new branch]   adding-git-instructions-to-repo -> adding-git-instructions-to-repo
branch 'adding-git-instructions-to-repo' set up to track 'origin/adding-git-instructions-to-repo'.
```

5. Go onto the github repository and create a pull request for your branch to be merged with the main branch:

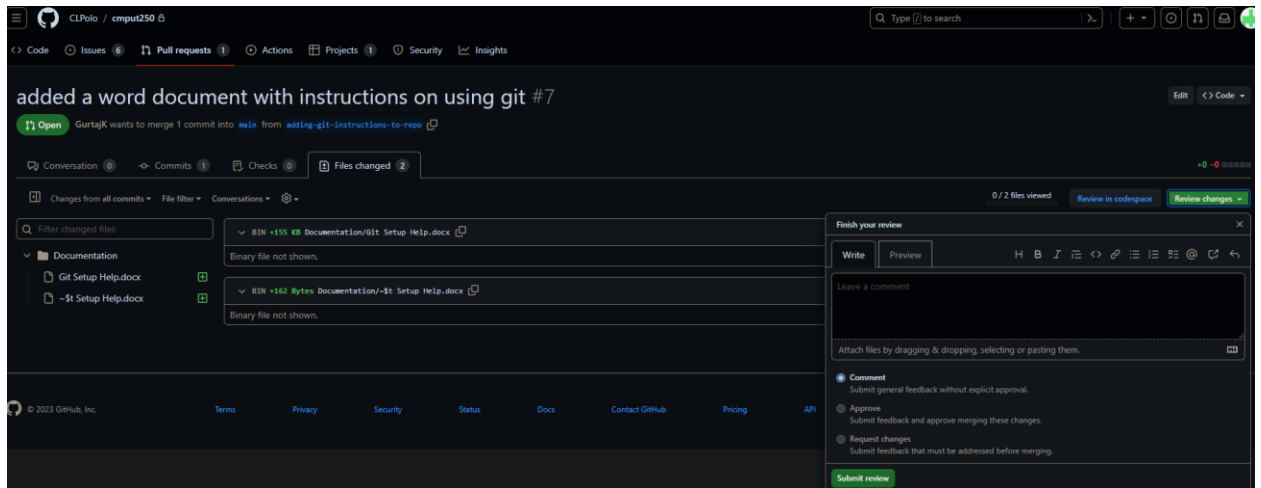


6. Add any reviewers, labels, link any issues (use #number in the comment section or the title and it will automatically link it) and create the pull request.



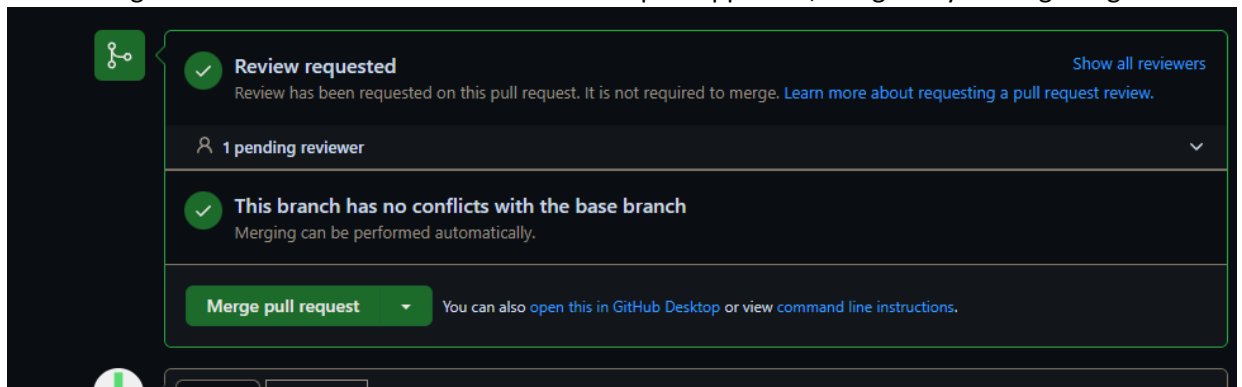
Reviewing PRs:

1. Add comments and either approve or request something to be changed:

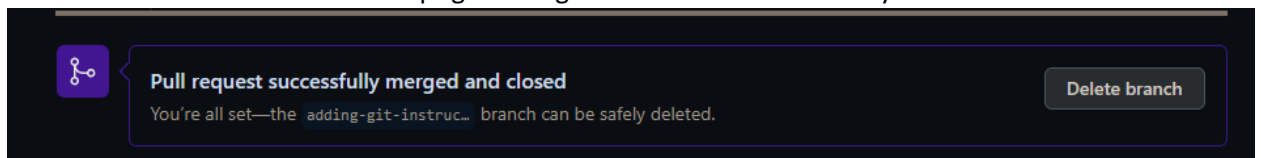


Merging PRs:

1. After changes from reviews have been made and the pr is approved, merge it by clicking merge:



2. Delete the excess branch after the pr gets merged to avoid clutter basically



(OPTIONAL): Set up git configs

1. Copy the contents in the .gitconfig file into your local .git/config file:

