

# How to connect a local repository with a remote repository.

Saravana Polisetti

June 25, 2022

## 1 Quick Tips

- Local repo may already have code or files in it, but doesn't matter
- Remote repo can have files or not, can get those files with git fetch or git pull after connecting local and remote repos.
- Start the following steps once both local and remote repos are up to. date

## 2 Solving the problem.

Start by making your directory a local repository. If it's already one, then continue with the following commands.

```
git init
git remote add origin <remote_repo_url>
git add .
git commit -m "First commit"
```

Now you want to send your code to the remote repo right? Okay, so you will most likely use this command since GitHub changed the main branch name (master) to main:

```
git push -u origin main
```

(or master, depending on what your main branch is named on github)

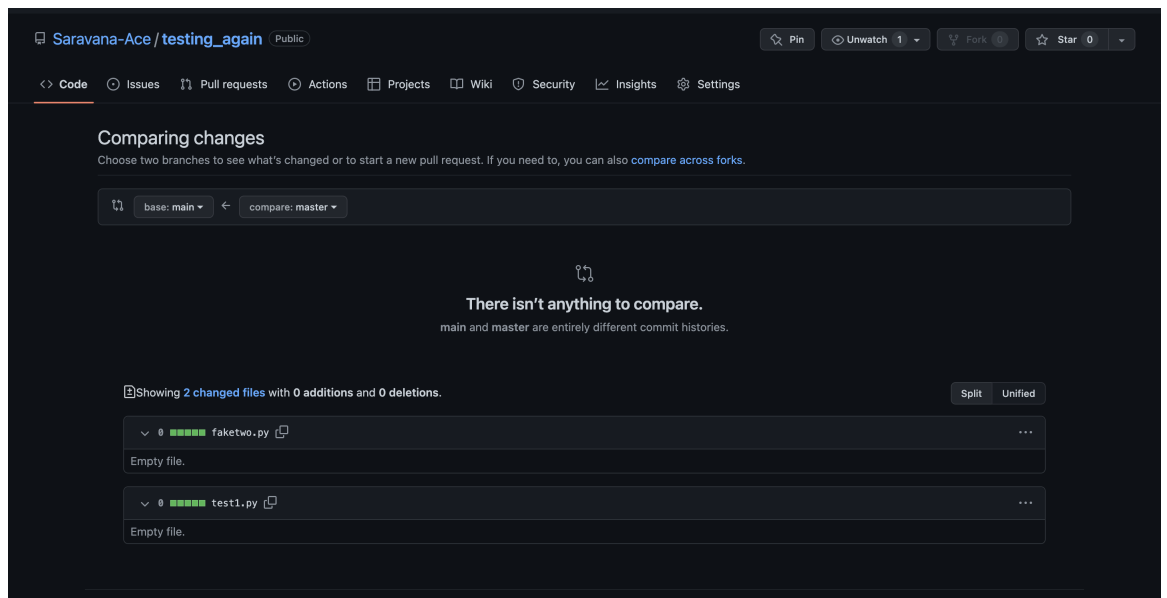
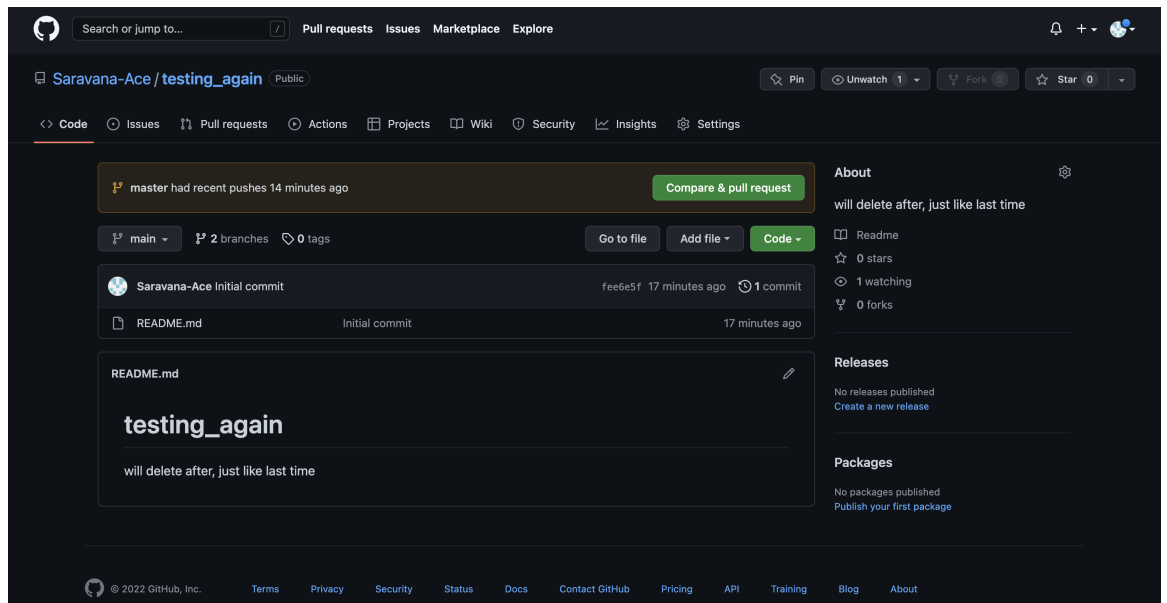
However this will actually give you the following error:

```
saravanapolisetti@Saravanas-MBP second_git_test % git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/Saravana-Ace/testing_again.git'
```

So what do we can do then? You will need to use the command:

```
git push -u origin master (which is the name of your main branch on your local repo)
OR
git push --all --set-upstream origin
```

This command tells git to make a new branch named master on your remote repo, but this is not what we want! On the remote repo you will see the new branch, but if you click on the compare & pull request button, you will not be able to create a pull request since there is nothing to compare:



We want the files we are pushing to be on the main branch, so we need to use the following commands to delete the master branch and move our files over to the main branch:

```
git checkout master (probably already on the master branch on your local repo, just do this for good measure)
```

```
git branch main master -f
git checkout main
git push origin main -f
```

And boom! You should end with all your files in your main branch:

