git

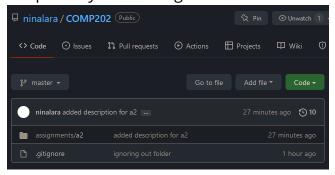
COMP 202 - Foundations of Programming

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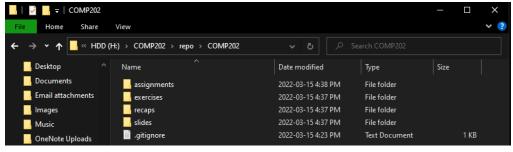
some definitions

- repository:files that are uploaded to github
- remote repository: a repository that is on github.com



— local repository:

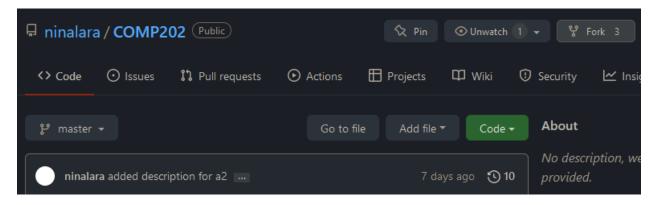
a repository that is downloaded from github.com but is on your PC



- fork a repository:copying a repository to your list of remote repositories on github
- clone a repository:downloading a repository to your computer as a local repository

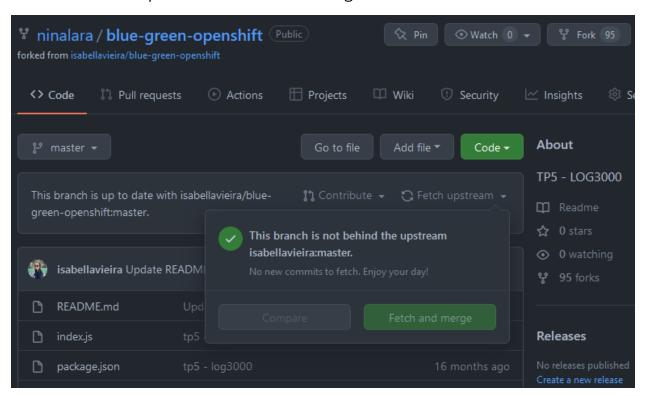
to fork a repository from github

click on the Fork button on the top right corner



to update a forked repository from github

click on the Fetch upstream button below the green Code button

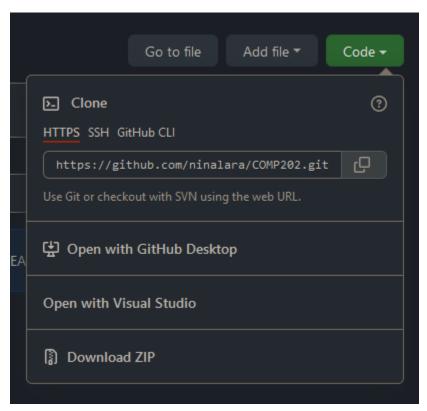


to download a repository from github

git clone + (git URL)

example:

git clone https://github.com/ninalara/COMP202.git



```
test@DESKTOP-02KSELR MINGW64 ~ (master)
$ git clone https://github.com/ninalara/COMP202.git
Cloning into 'COMP202'...
remote: Enumerating objects: 77, done.
remote: Counting objects: 100% (77/77), done.
remote: Compressing objects: 100% (42/42), done.
remote: Total 77 (delta 15), reused 63 (delta 6), pack-reused 0
Unpacking objects: 100% (77/77), 7.81 KiB | 12.00 KiB/s, done.
```

to add your code to github

```
step 1: git add .

step 2: git commit -m "(description of the code you're adding)"

step 3: git push

example:
git add .
git commit -m "created the alphaString method"
git push
```

```
test@DESKTOP-02KSELR MINGW64 /h/COMP202/repo/COMP202 (master)
$ git add .
test@DESKTOP-02KSELR MINGW64 /h/COMP202/repo/COMP202 (master)
$ git commit -m"added description for a2"
[master a3865ef] added description for a2
 1 file changed, 30 insertions(+), 1 deletion(-)
test@DESKTOP-02KSELR MINGW64 /h/COMP202/repo/COMP202 (master)
$ git push
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 1.04 KiB | 531.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/ninalara/COMP202.git
   a896772..a3865ef master -> master
test@DESKTOP-02KSELR MINGW64 /h/COMP202/repo/COMP202 (master)
```

useful git commands

pwd (present working directory):
 tells me which folder I'm in

```
test@DESKTOP-02KSELR MINGW64 ~/COMP202 (master)
$ pwd
/c/Users/test/COMP202
```

— ls (list):

view the list of files and folders in the current directory

```
test@DESKTOP-02KSELR MINGW64 ~/COMP202 (master) $ ls assignments/
```

— cd + name of a folder (change directory): go into a folder

```
test@DESKTOP-02KSELR MINGW64 ~/COMP202 (master)
$ cd assignments

test@DESKTOP-02KSELR MINGW64 ~/COMP202/assignments (master)
$
```

— cd .. (change directory): go into the previous folder

```
test@DESKTOP-02KSELR MINGW64 ~/COMP202 (master)
$ cd assignments

test@DESKTOP-02KSELR MINGW64 ~/COMP202/assignments (master)
$ cd ..

test@DESKTOP-02KSELR MINGW64 ~/COMP202 (master)
$ |
```