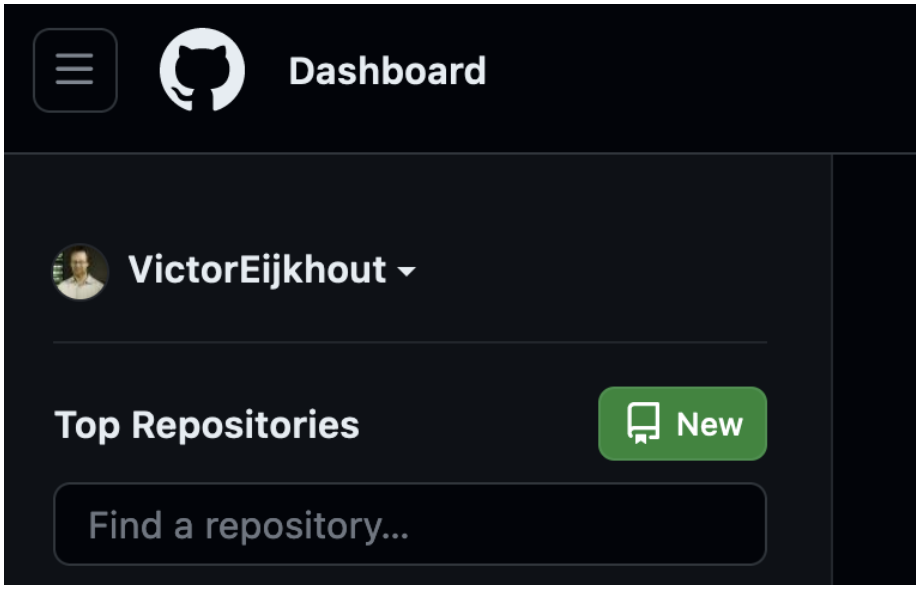
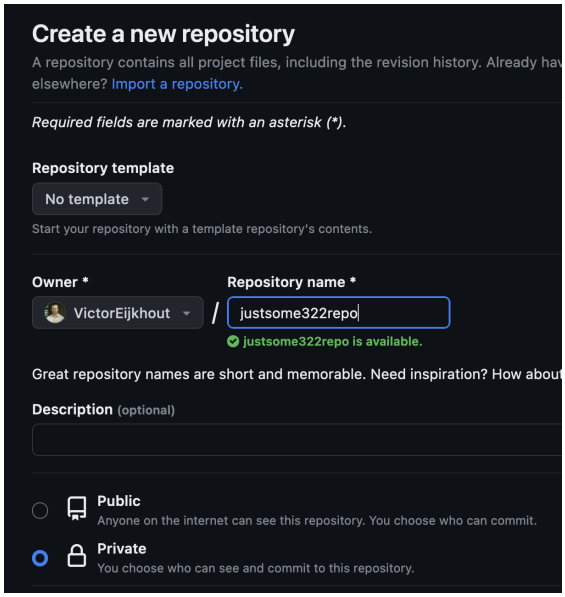
Basic Git workflow

Create a new repository on github.com:



Make sure to make it private:



Done!

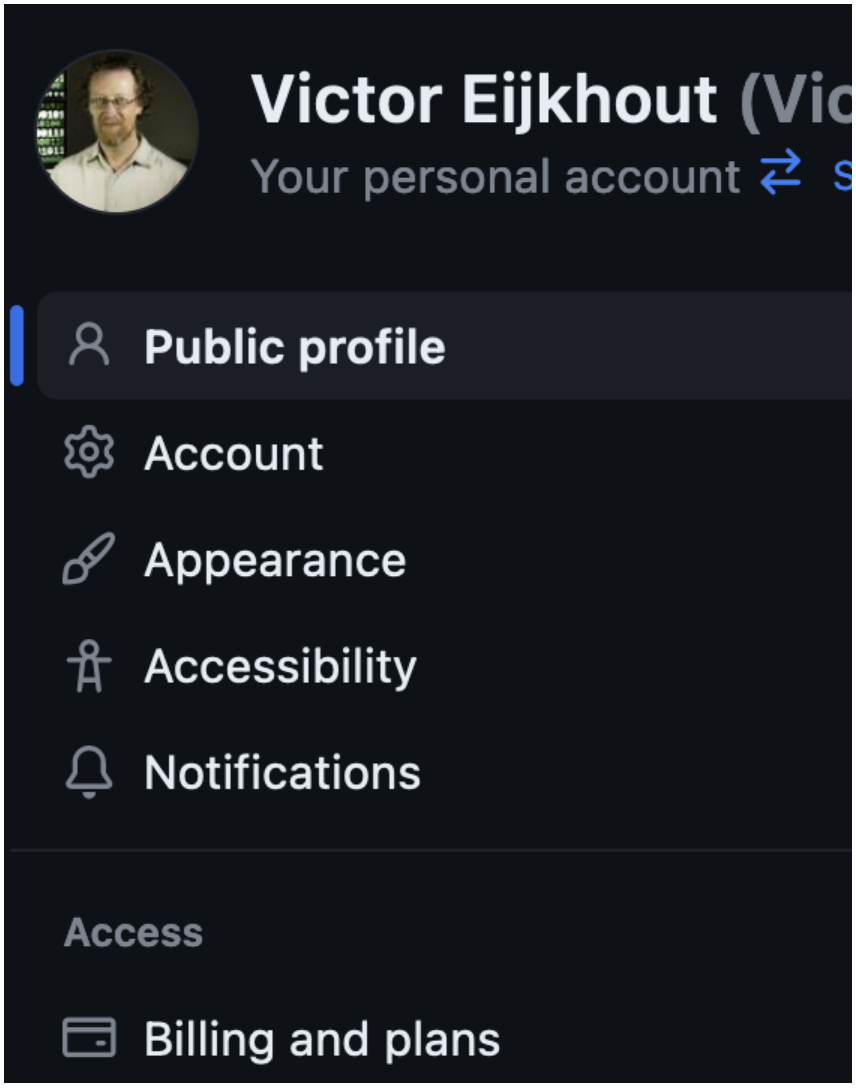
Now you need to create clone of it, on your laptop and on the ISP machine. First github.com needs to know that your laptop & the ISP machine are authorized to access the repository.

Open a terminal window and get the contents of `.ssh/id_rsa.pub`:

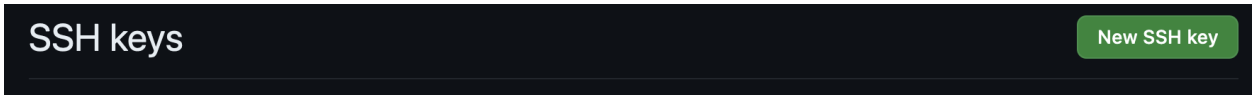
```
[eijkhout@isp02 ~]$ cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDS+/Le2l
s+6p/eq6F/Ys+IpqaXPFfHGI1CTFNgEJhZdsr7qh6b4gM+
p02.tacc.utexas.edu
```

This only works in your home directory. Also, if that file is not there, first run “ssh-keygen” and use the default and no passphrase.

Go back to github.com and find the SSH settings

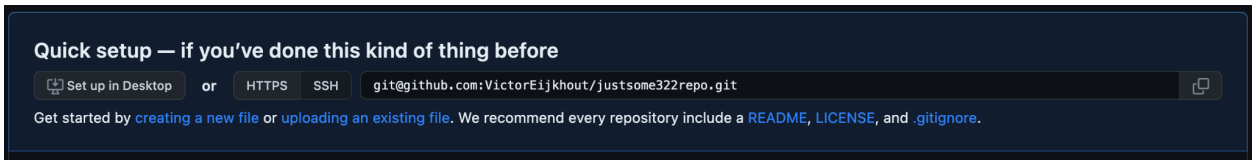


Enter the key information as a new key:



You probably need to do that both for isp and for your personal computer.

Now we can clone the repository. Let's first do that on the ISP machine. Note the path (use ssh option):



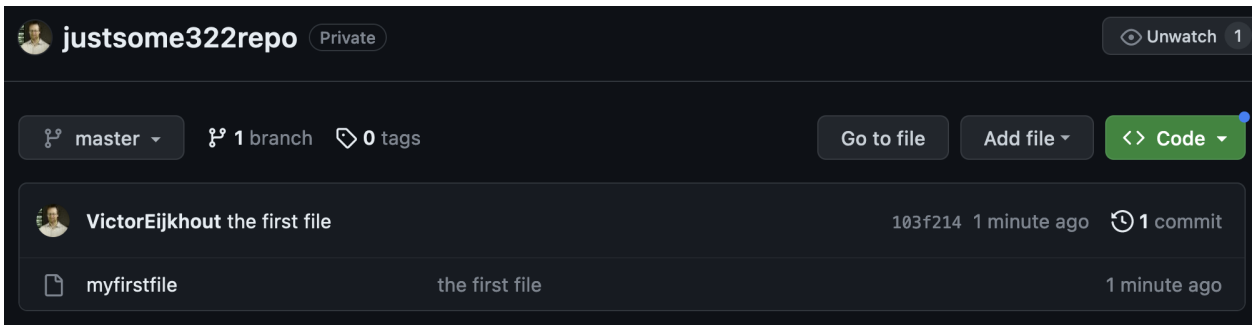
Enter in the terminal:

```
[eijkhout@isp02 ~]$ git clone git@github.com:VictorEijkhout/justsome322repo.git
Cloning into 'justsome322repo'...
warning: You appear to have cloned an empty repository.
```

You now have a directory by the name of your repository. Go into it, and create a file:

```
[eijkhout@isp02 justsome322repo]$ touch myfirstfile
[eijkhout@isp02 justsome322repo]$ git add myfirstfile
[eijkhout@isp02 justsome322repo]$ git commit -m "the first file"
[master (root-commit) 103f214] the first file
 1 file changed, 1 insertion(+)
 create mode 100644 myfirstfile
[eijkhout@isp02 justsome322repo]$ git push
Counting objects: 3, done.
Writing objects: 100% (3/3), 251 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
remote: To git@github.com:VictorEijkhout/justsome322repo.git
 * [new branch]      master -> master
```

You'll see that the file is now on the github.com server:



If you now clone the repository on your personal computer you'll see that the file is there:

```
[/Users/eijkhout 1001] git clone git@github.com:VictorEijkhout/justsome322repo.git
Cloning into 'justsome322repo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
[/Users/eijkhout 1002] cd justsome322repo
[/Users/eijkhout/justsome322repo 1003] ls
myfirstfile
```