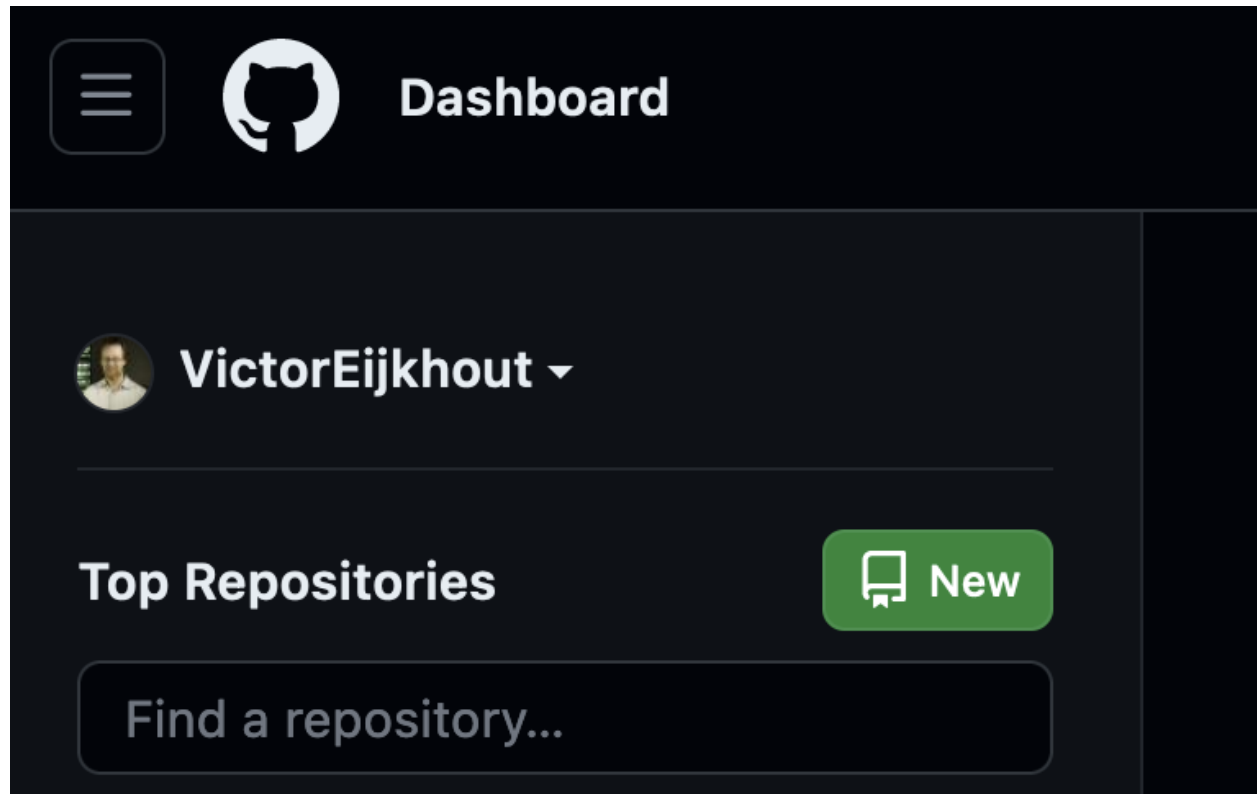


Basic Git workflow

Create a new repository on github.com:



Make sure to make it private:

Create a new repository

A repository contains all project files, including the revision history. Already have one somewhere? [Import a repository](#).

Required fields are marked with an asterisk ().*

Repository template

No template ▼

Start your repository with a template repository's contents.

Owner *



VictorEijkhout ▼

Repository name *

justsome322repo

✓ justsome322repo is available.

Great repository names are short and memorable. Need inspiration? How about

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

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 AAAAB3NzaC1yc2EAAAADAQABAAQDS+/Le2L  
s+6p/eq6F/Ys+IpqaXPffHGI1CTFNgEJhZdsr7qh6b4gM+  
p02.tacc.utexas.edu
```

Go back to github.com and find the SSH settings:



Victor Eijkhout (VictorEijkh

Your personal account [↔](#) [Switch to another account](#)

 **Public profile**


 **Account**

 **Appearance**

 **Accessibility**

 **Notifications**

Access

 **Billing and plans**



 **Emails**

 **Password and authentication**

 **Sessions**

 **SSH and GPG keys**

Enter the key information as a new key:

SSH keys

New SSH 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):

Quick setup — if you've done this kind of thing before

Set up in Desktop

 or

HTTPS

SSH

git@github.com:VictorEijkhout/justsome322repo.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

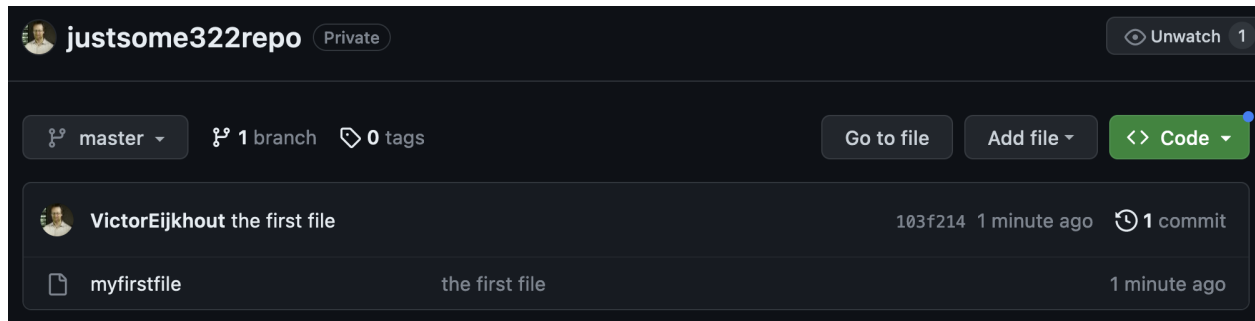
Enter in the terminal:

```
[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
```