git and GitHub

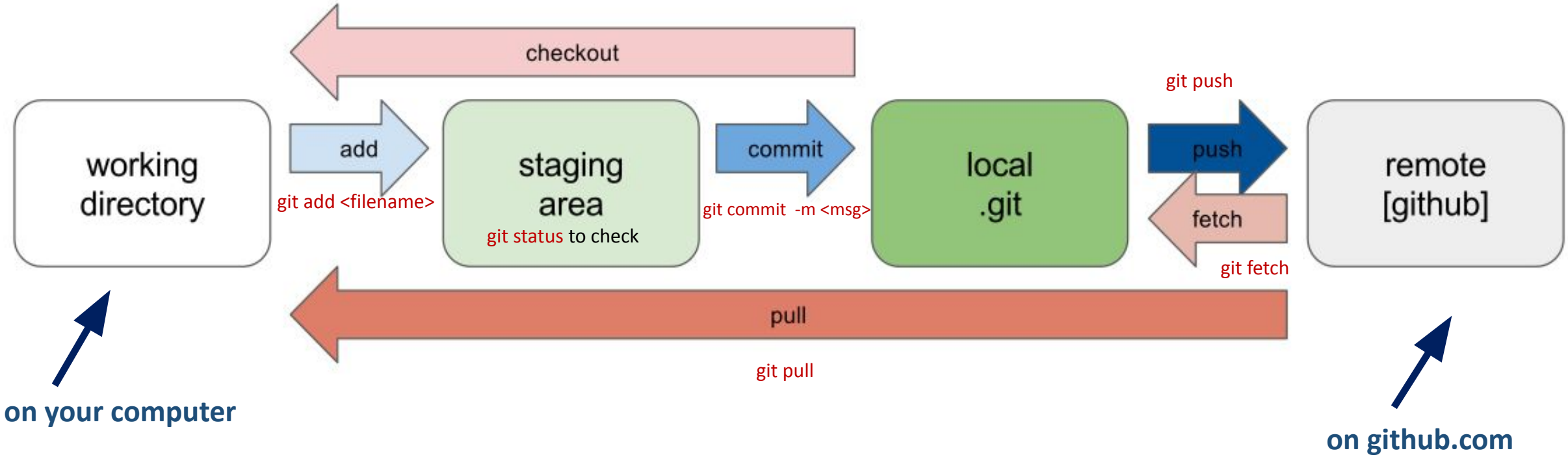


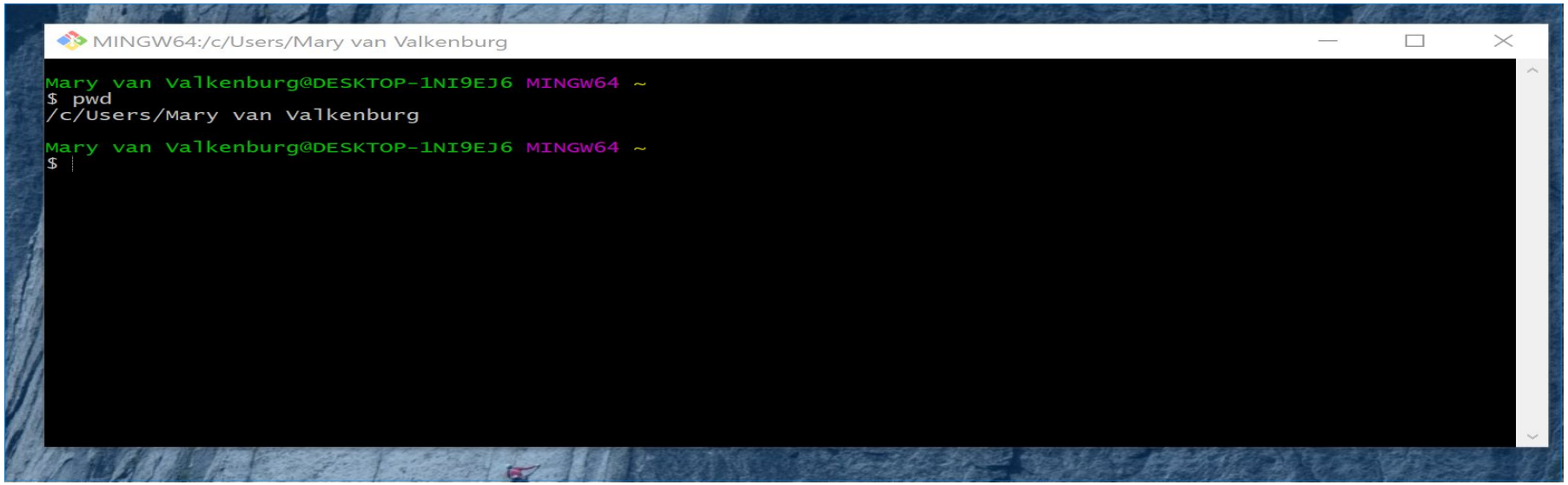
Image: https://edav.info/github.html

(should already be done)

- Install git (**https://git-scm.com/downloads**)

- Since we will be working in Windows for our Excel projects, everyone will need to clone their assignment repositories to their Windows machine

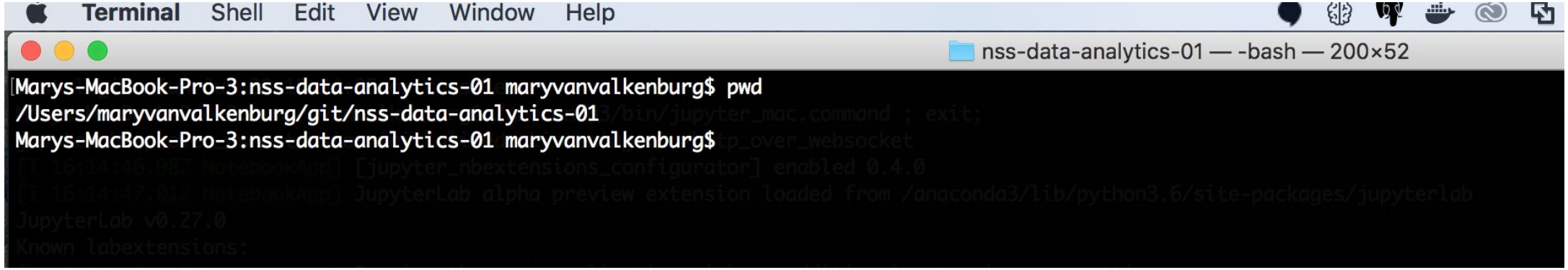
- On Windows:
  - Open Git Bash:



If Git Bash didn't install automatically with git, you can get it here: https://gitforwindows.org/

For Mac/Linux users for later

- When working on Mac:
  - Open Terminal



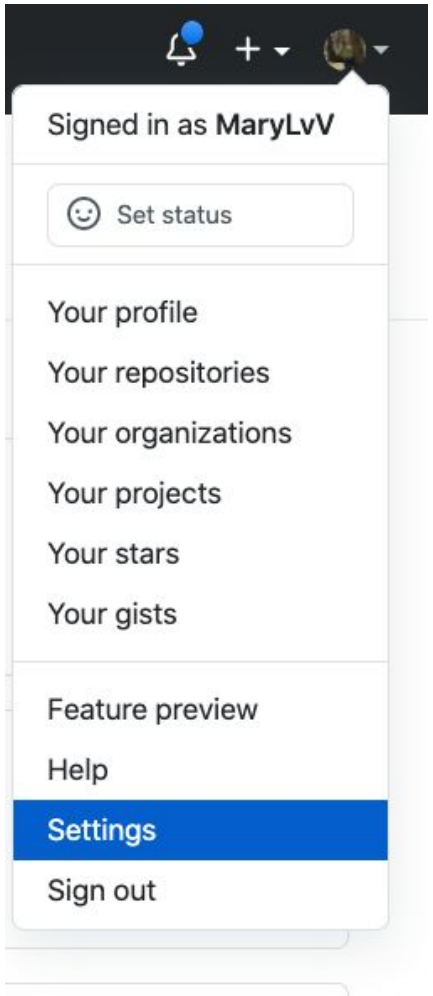
- Find your working directory with this command: **pwd**

  - **These are other helpful shell commands for navigating through your directories:**
    - **ls lists the contents of the current directory**
    - **cd <directory name> changes the directory to the one specified**
    - **cd .. Takes you up on level in the directory structure**

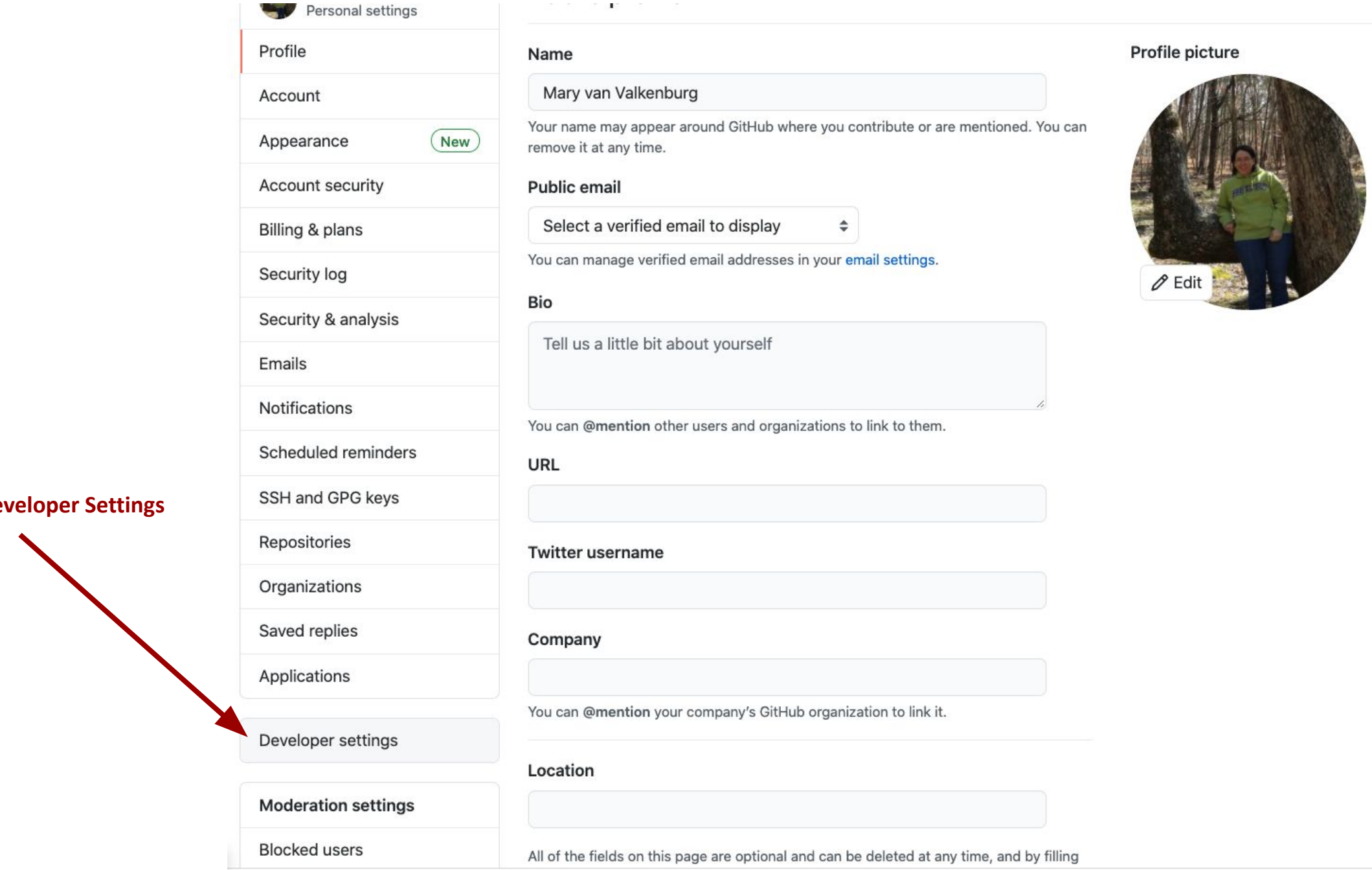
- Navigate to where you want to create our local git repositories and make your directory and create a directory called git: with **mkdir git**
- Change to the new git directory with **cd git**
- Make a directory called nss-data-analytics (or similar) with **mkdir <new folder name>**
- Change to the directory with **cd <new folder name>**

Go to your account at https://github.com/

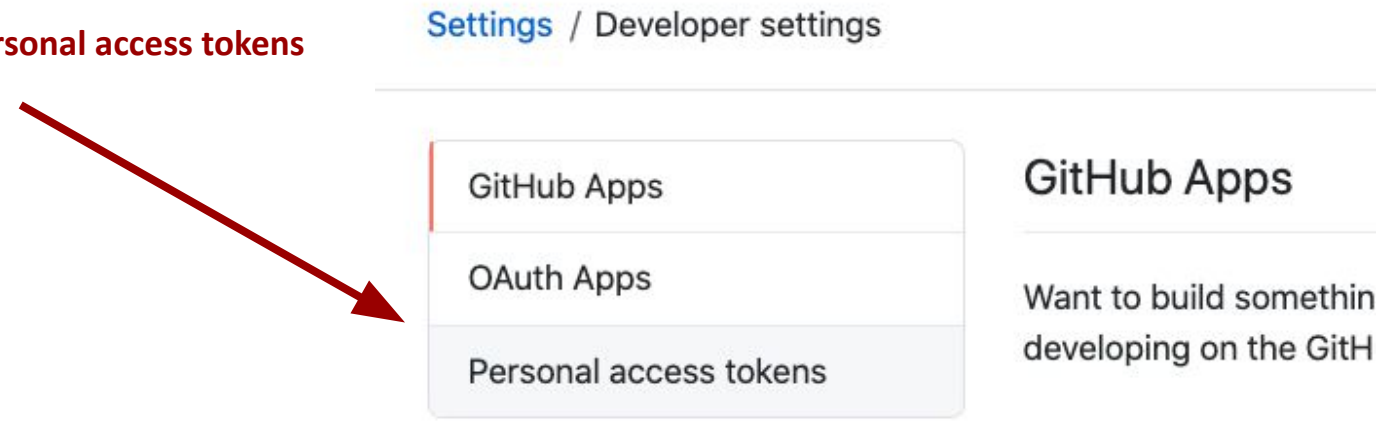
1. Create a personal access token (PAT)
   [GitHub now requires PATs for command line interactions]
   a. **Click on your avatar in the upper right corner and select Settings**



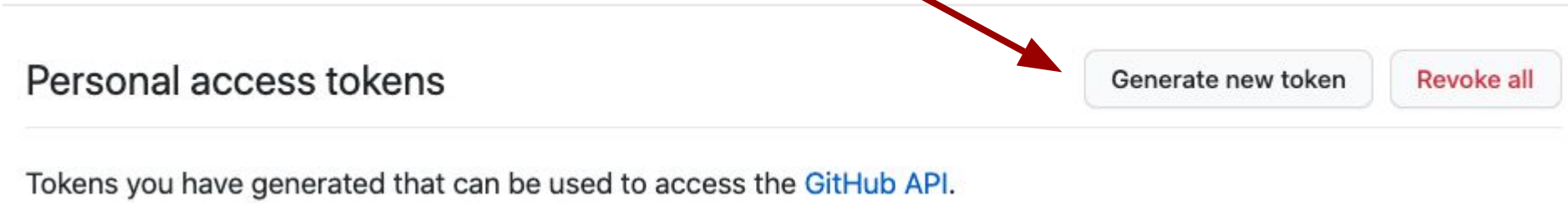
b. Click on Developer Settings

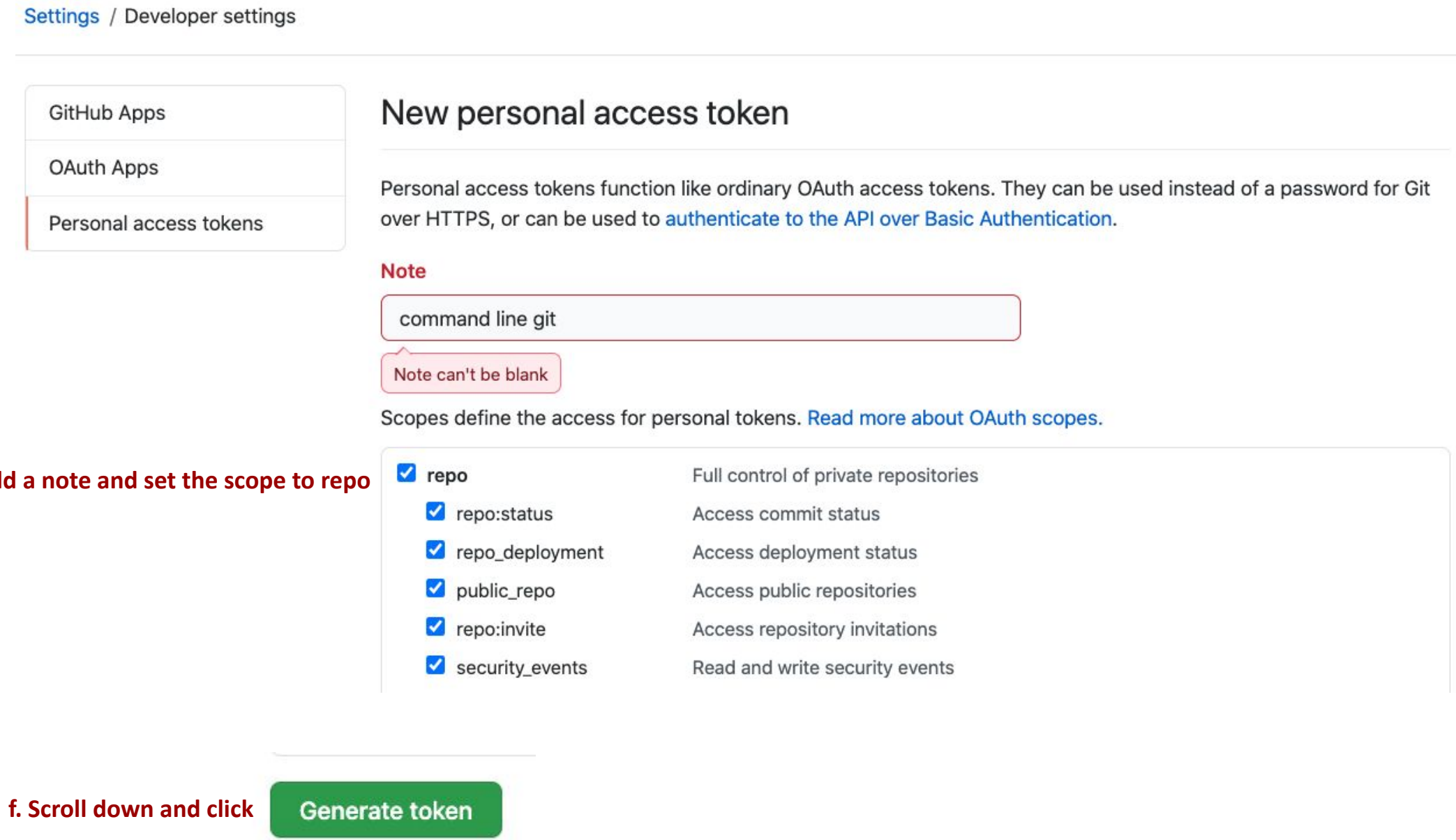


c. Select Personal access tokens



d. And Generate new token

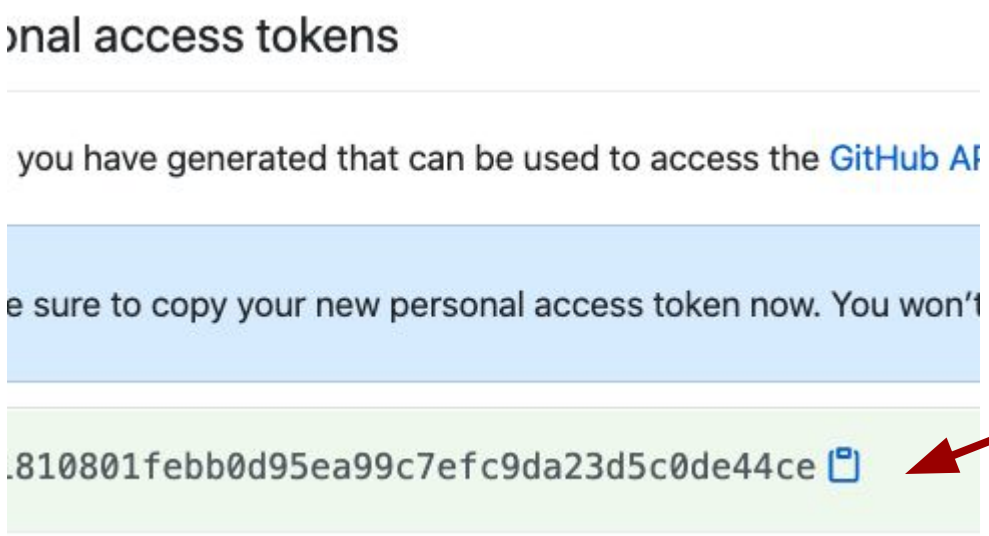




e. Add a note and set the scope to repo

f. Scroll down and click

Very important



Click the little clipboard to copy your token

Setting your Git username for *every* repository on your computer

1. Open Terminal. **or GitBash if you are on Windows**
2. Set a Git username:

```
$ git config --global user.name "Mona Lisa"
```

3. Confirm that you have set the Git username correctly:

```
$ git config --global user.name
> Mona Lisa
```

Your username is the account name. In the example below it would be **MaryLvV**. It is below your actual name and in the URL.

Setting your commit email address in Git

You can use the `git config` command to change the email address you associate with your Git commits. The new email address you set will be visible in any future commits you push to GitHub from the command line. Any commits you made prior to changing your commit email address are still associated with your previous email address.

Setting your email address for every repository on your computer

1. Open Terminal. **or GitBash if you are on Windows**
2. Set an email address in Git. You can use your GitHub-provided `no-reply` email address or any email address.

```
$ git config --global user.email "email@example.com"
```

3. Confirm that you have set the email address correctly in Git:

```
$ git config --global user.email
email@example.com
```

Click the link provided by your instructor to accept the first assignment. This will create an assignment repository for you.

Go to **your assignment repository using cd in GitBash**

Clone **your remote repository** to create a **local repo**

copy clone url from github.com 

git clone <url to repository that you copied>

Add a file (any file) to your repo. Don't worry, you'll delete it later.

cd to your repo

git add .

git commit -m "test file"

git push origin main

*** When prompted for a password, paste your PAT into GitBash**