Git Setup

You have a folder with a bunch of files from your project.

You want to start using version control with Git.

Git Setup

Install git on your computer (it's already on CAEN)
- Windows/Mac: https://desktop.github.com/
- Linux: sudo apt-get install git

Make an account on github
- https://education.github.com/pack

Git Setup

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Make an account on github (if you want to be able to push between CAEN and your computer)
- https://education.github.com/pack

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Git Setup

- Open a terminal and navigate to your folder
- Initialize a repository

```
git init
git add .
git commit -m "descriptive message"
```

- If you want to be able to edit on CAEN and your own computer, continue on.

Github Setup

Generate and Add SSH Key

```
ssh-keygen -t rsa -b 4096
```

- Copy contents of `~/.ssh/id_rsa.pub`
- If you haven't already, go to https://education.github.com/pack and make an account
- https://github.com/settings/ssh - Add SSH Key (paste public key)
  - Do for both CAEN and your personal computer if you want to edit from both
- https://help.github.com/articles/generating-ssh-keys for more

Github Setup

Config:

```
git config --global user.name "Your Name"

git config --global user.email "myEmail@umich.edu"
```

Repo Setup:

● Make a new repository on www.github.com, or find your existing repository. (https://education.github.com/ for free private repos)
● Copy SSH clone url
● In your terminal: `git remote add origin <url>`
● `git push -u origin master`

SSH clone URL

git@github.com:tiger

You can clone with HTTPS, SSH, or Subversion. ⊙

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Git Tips

- Commit often!
- Make new branches every time you want to test out a new feature https://git-scm.com/book/en/v2/Git-Branching-Basic-Branching-and-Merging
- Stay organized!