INTRO TO GIT

IM ALINA!

A HANDS-ON INTRODUCTION TO THE VERSION CONTROL SYSTEM AND ITS USES

CONTENTS

WHAT IS GIT?

Git is a popular version control system.

GIT VS GITHUB?

You do not need GitHub to use git, but you cannot use GitHub without using git.

SETTING UP GIT

GITHUB ACCOUNT

Download: https://git-scm.com/downloads

A setup reference https://adamtheautomator.com/git-bash/

Create/Login to GitHub account

Have the Git bash and GitHub side by side.

HOW DO I INTEGRATE GIT WITH GITHUB?

Step 1:Configure access to GitHub repositories

Step 2: Clone a repository

Step 3: Create!

Step 4: Stage and Share

STEP 1:

CONFIGURE ACCESS TO GITHUB REPOSITORIES

Generate SSH Keys

Associate key with GitHub

Configure your GitHub user in Git bash

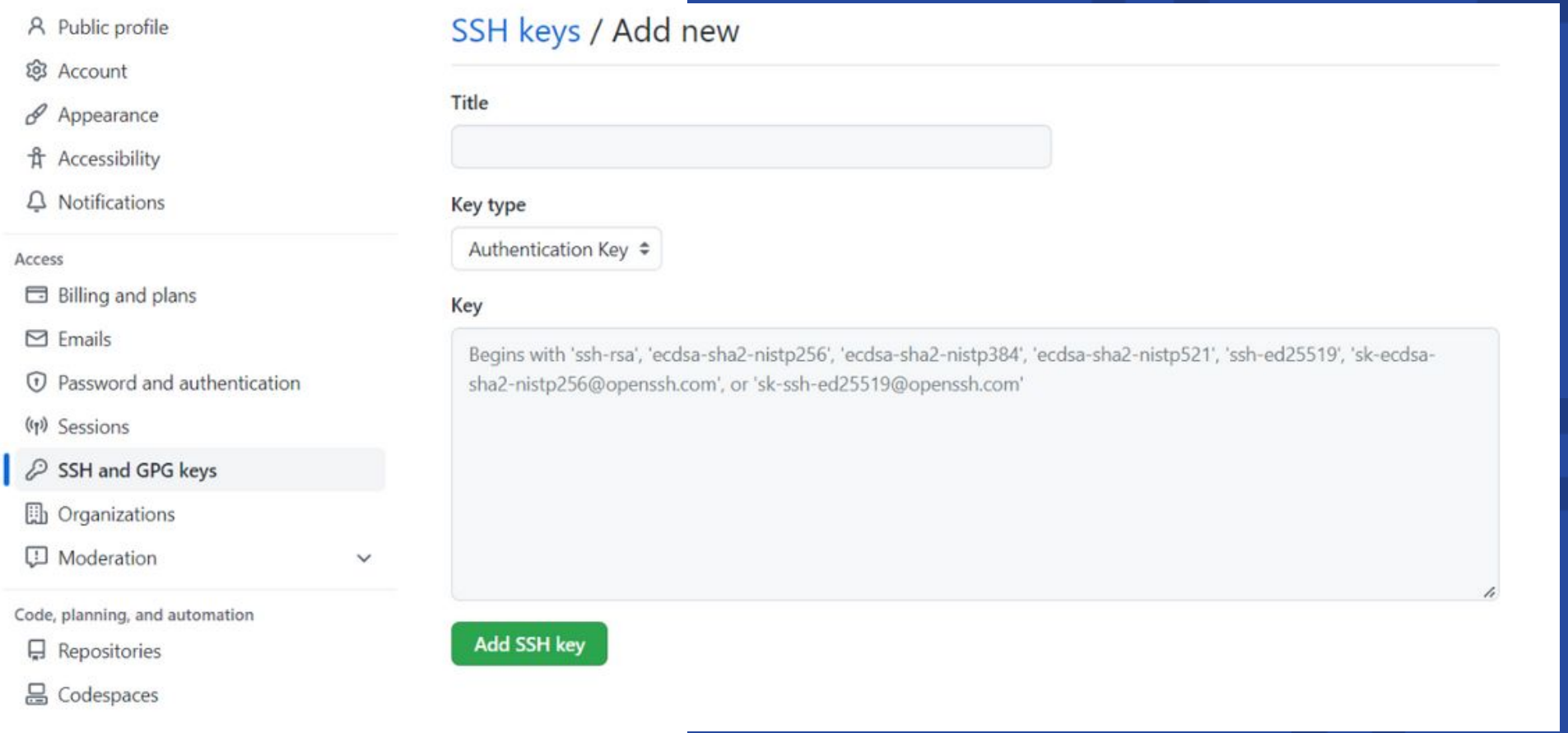
GENERATE SSH KEYS

```
ssh-keygen -t rsa -b 4096 -C
"yourgithubemail@blank.edu"
```

```
cat ~/.ssh/id_rsa.pub
```

ASSOCIATE KEY WITH GITHUB

Add the generated SSH Key on GitHub in **Settings->SSH keys**



CONFIGURE YOUR GITHUB USER IN GIT BASH

```
git config --global user.email
"yourgithubemail@blank.edu"

git config --global user.name
"Your Github Username"

git config --global
user.password “your ssh key”

git config --global
user.password "1234321"

git config --global
credential.helper store

git config --list
```

STEP 2: CLONE A REPOSITORY

https://github.com/Alinamoo/IntroToGit

git clone

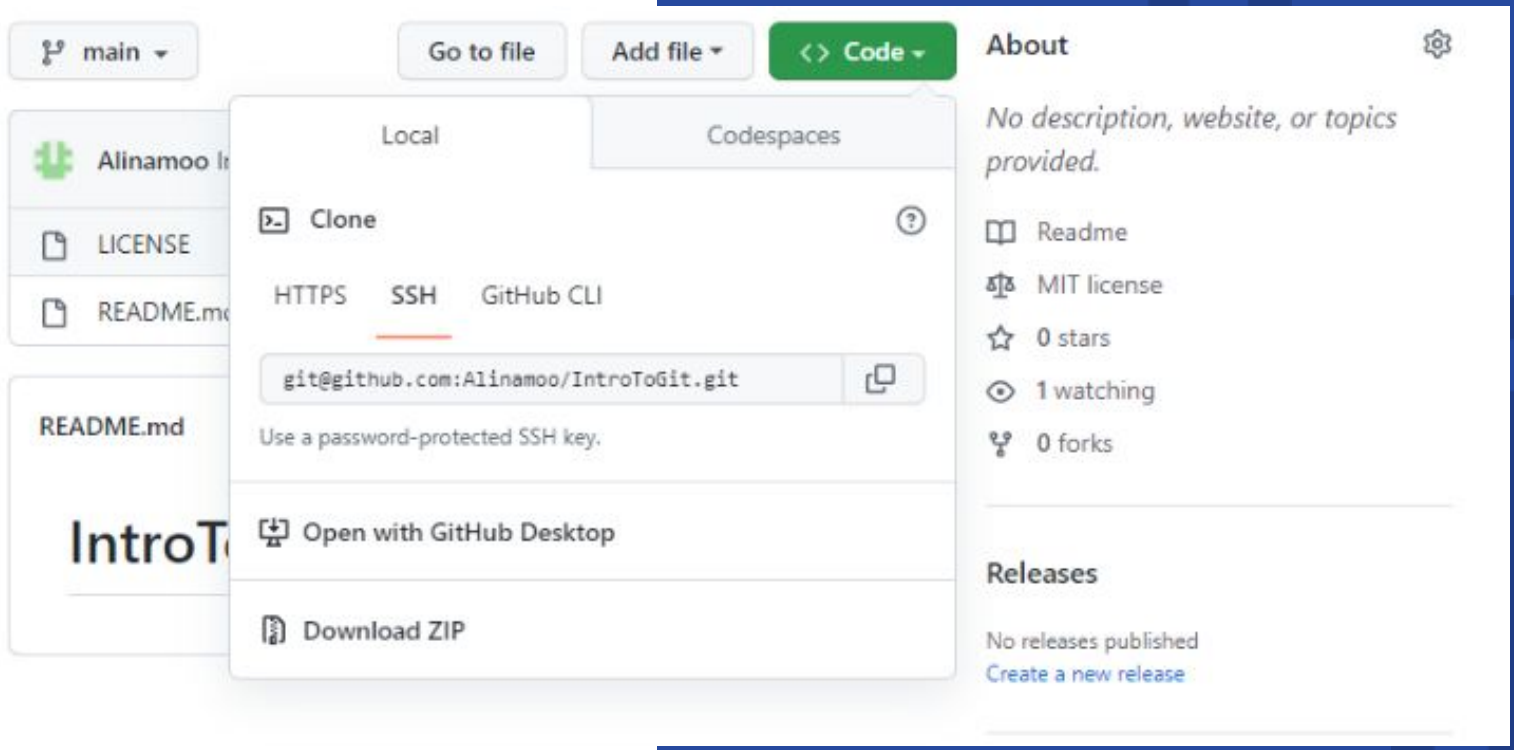
Create new Repository on GitHub

Configure a git URL as alias to GitHub repo

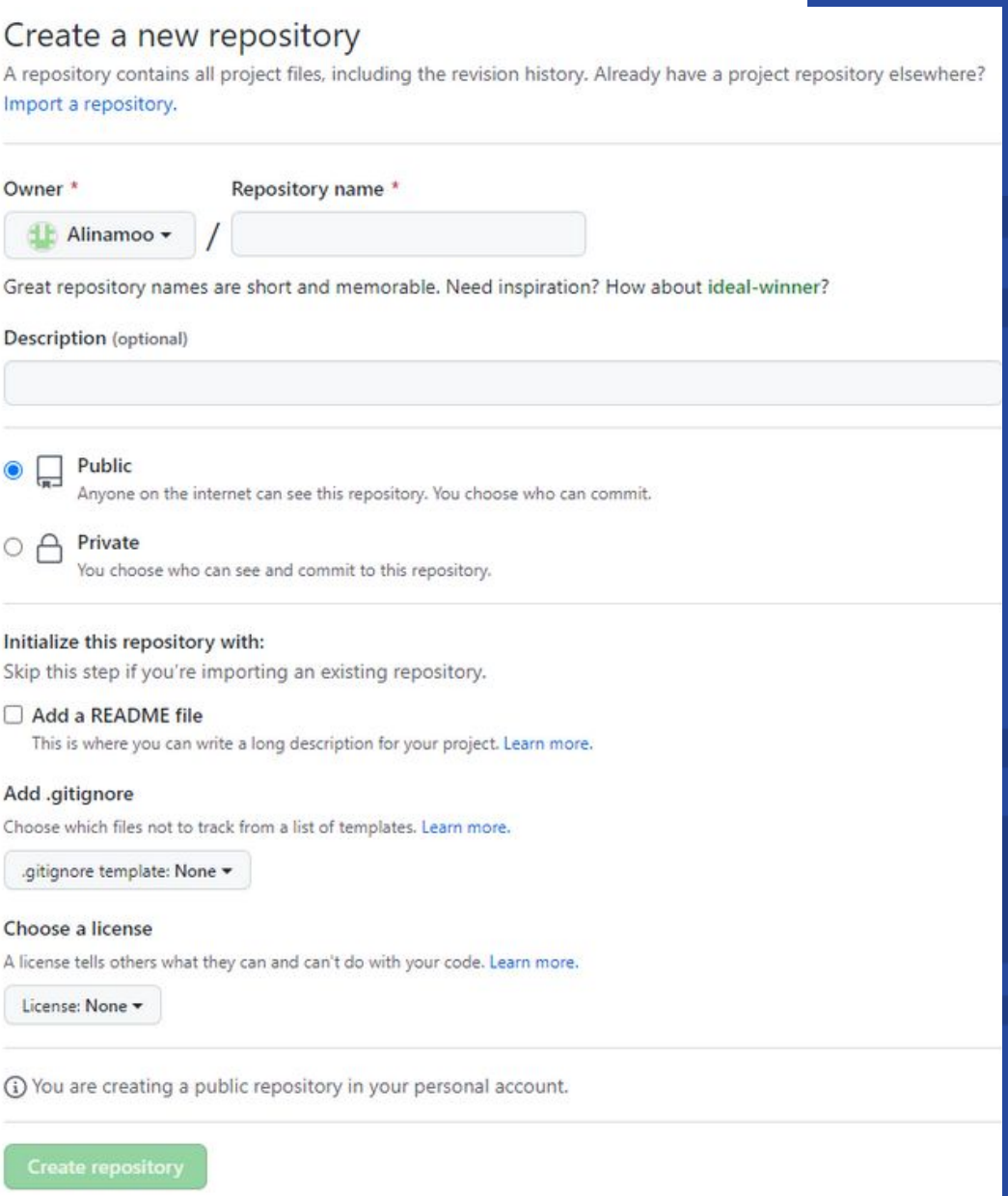
GIT CLONE

https://github.com/Alinamoo/IntroToGit

```
git clone
git@github.com:Alinamoo/IntroToGit.git
```



CREATE NEW REPOSITORY ON GITHUB



CONFIGURE A GIT URL AS ALIAS TO GITHUB REPO

```
git remote remove origin
```

```
git remote add origin
git@github.com
yourusername/yourreponame.git
```

```
git push -u origin main
```

```
$ git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 1.54 KiB | 1.54 MiB/s, done.
Total 7 (delta 0), reused 4 (delta 0), pack-reused 0
To github.com:Alinamoo/IntroToGitpart2adding.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
```

STEP 3:

CREATE!

Lets Explore the linux terminal!

Create your file, get creative!

STEP 4:

STAGE AND SHARE

```
git add "file.py"
```

```
git commit -m "commit
msg"
```

```
git push origin main
```

WAY TO GO! THAT WAS A LOT OF INFORMATION!

Linus Torvalds

So what this builds up to is that in the end we're all here to have fun. We might as well sit down and relax, and enjoy the ride."

— Linus Torvalds, Just for Fun: The Story of an Accidental Revolutionary

THANK YOU!