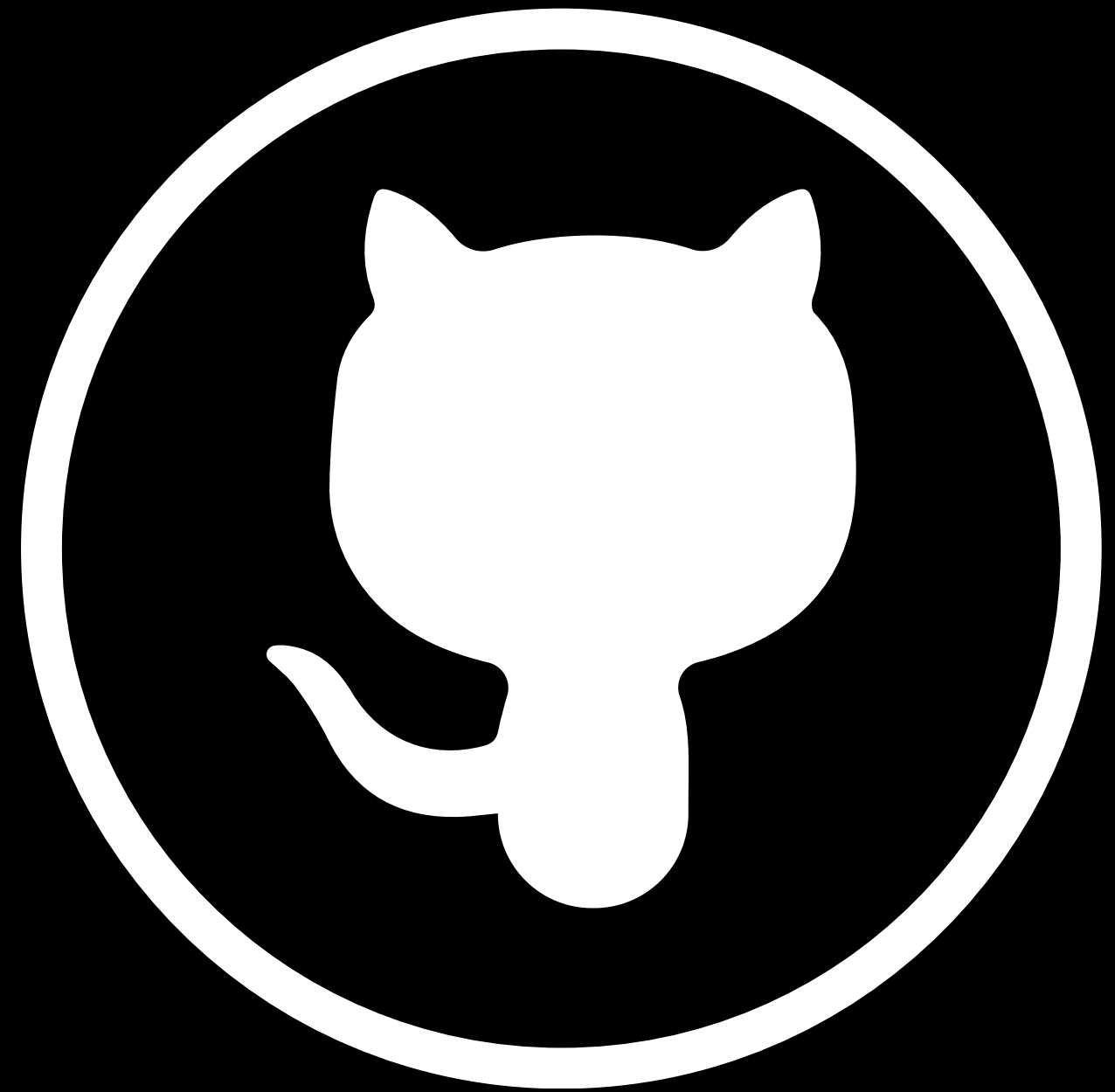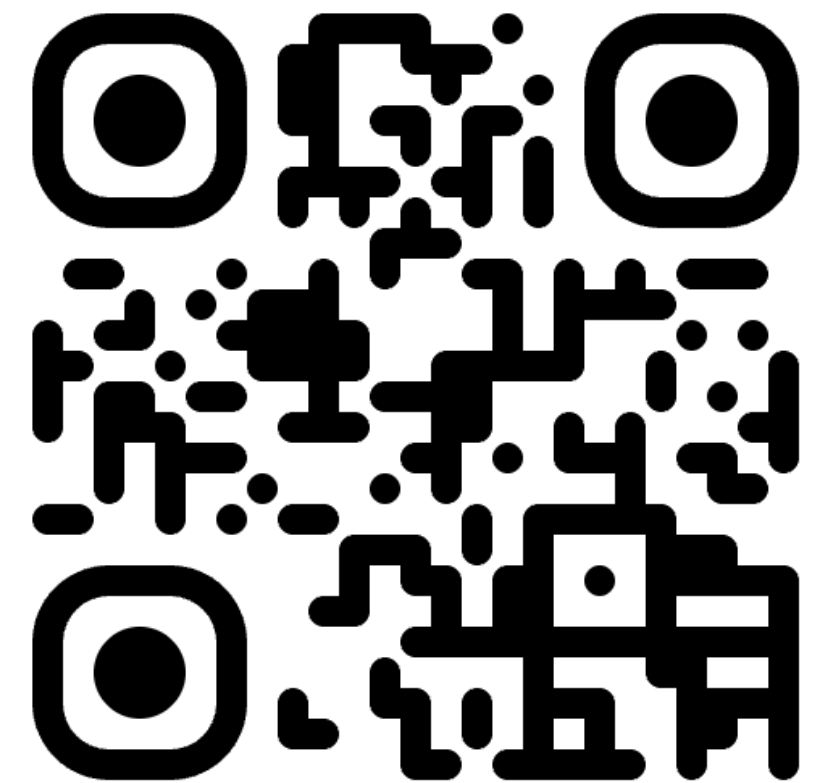# Git Going

Malak Mahdy

What is GitHub?

- **Git**: Version control system *local* on computer
- **GitHub**: cloud platform that hosts Git repositories *online*
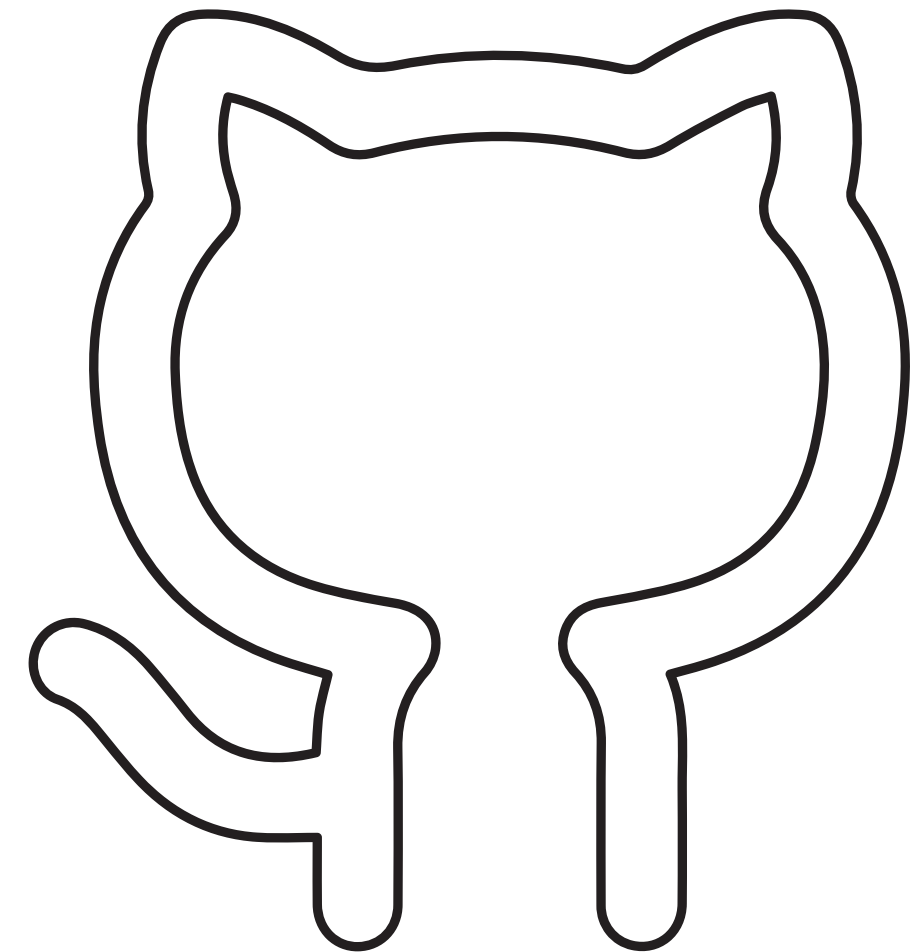
We will use GitHub!

Scan to get started

What is GitHub?

It also can be…

- Portfolio of your projects
- Tool to find open-source projects
  - **Open-source:** source code is publicly available for anyone to view, use, modify, and share
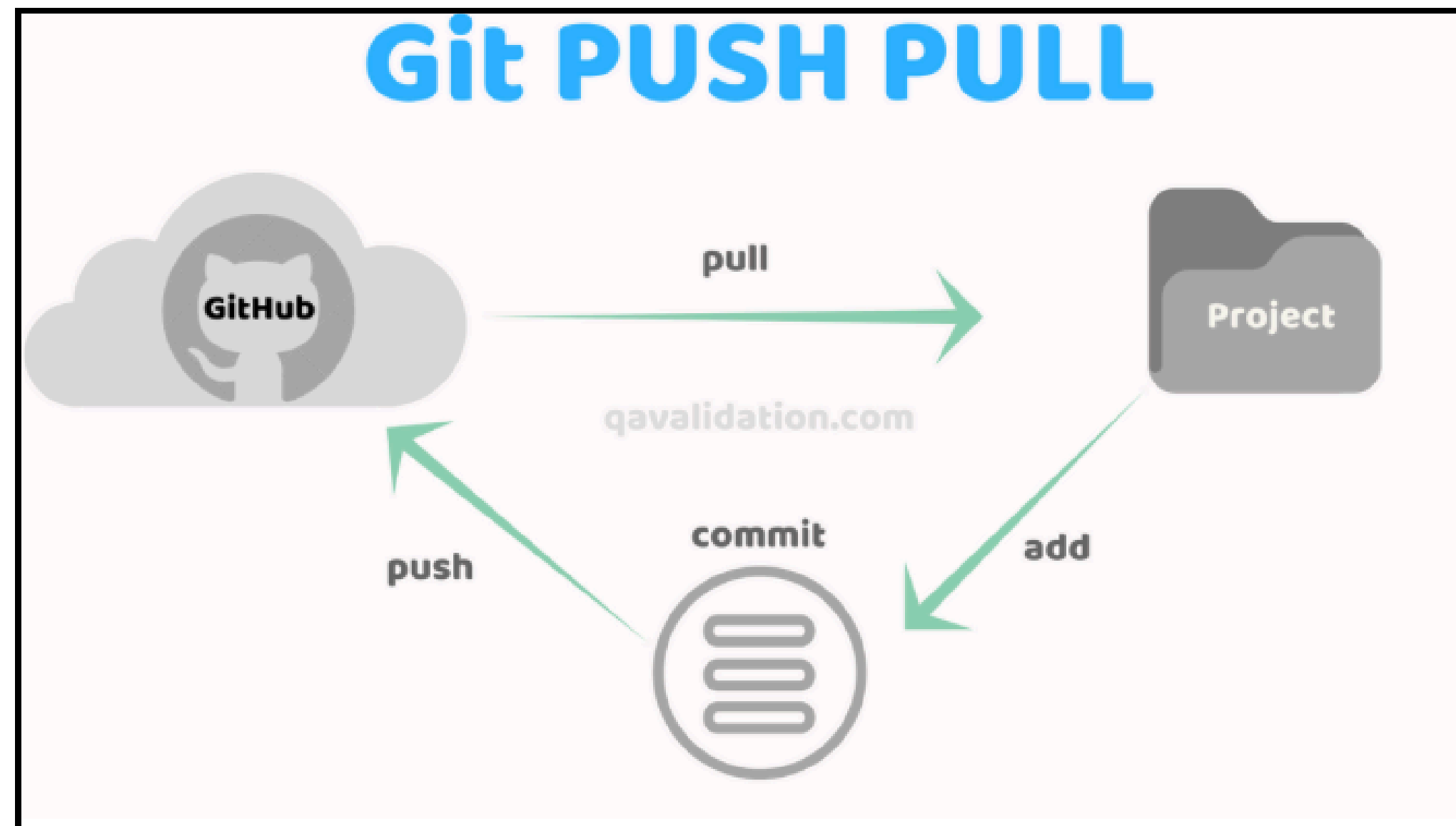
What is version control?

- Tracks changes made to files over time
- Who changed what, when, why
- **Collaboration**: people can work on the same project w/o overwriting one another
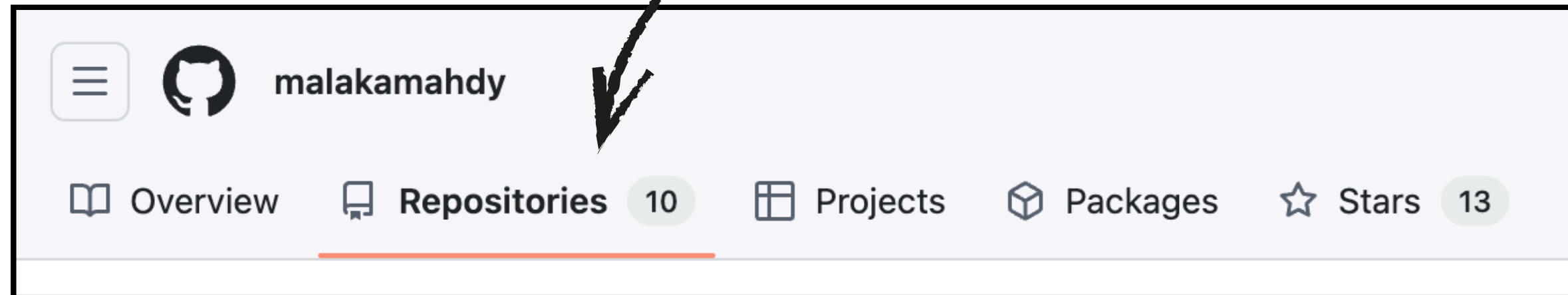
What you need to know

Making a repository

Repository (repo): project folder on GitHub that stores all your code, files, and version history

One team member
click here

malakamahdy

☰ 🐙 malakamahdy

📖 Overview   🖥 **Repositories** `10`   🖽 Projects   📦 Packages   ⭐ Stars `13`

Create a new repository

Repositories contain a project's files and version history. Have a project elsewhere? Import a repository.
Required fields are marked with an asterisk (*).

1 ## General

Owner *

👤 malakamahdy ▾   /

Repository name *

IslanderHack

✅ **IslanderHack is available.**

Great repository names are short and memorable. How about **solid-guide**?

Description

Source code for [team] in the 2025 IslanderHack

47 / 350 characters

2 ## Configuration

Choose visibility *   🖥 Public ▾
Choose who can see and commit to this repository

Add README   On 🔵
READMEs can be used as longer descriptions. About READMEs

Add .gitignore   No .gitignore ▾
.gitignore tells git which files not to track. About ignoring files

Add license   No license ▾
Licenses explain how others can use your code. About licenses

Create repository

README on!

malakamahdy / **IslanderHack**

<> **Code**   ⊙ Issues   ⌥ Pull requests   ▶ Actions   ▦ Projects   📖 Wiki   ⊘ Security   📈 Insights   ⚙ **Settings**

🔍 Typ

⚙ **General**

Access

👥 **Collaborators**

💬 **Moderation options**

Collaborators and teams

▢ **Public repository**
This repository is public and visible to anyone

Manage visibility

Direct access   👥

0 collaborators have access to this repository. Only you can contribute to this repository.

Manage access

You haven't invited any collaborators yet
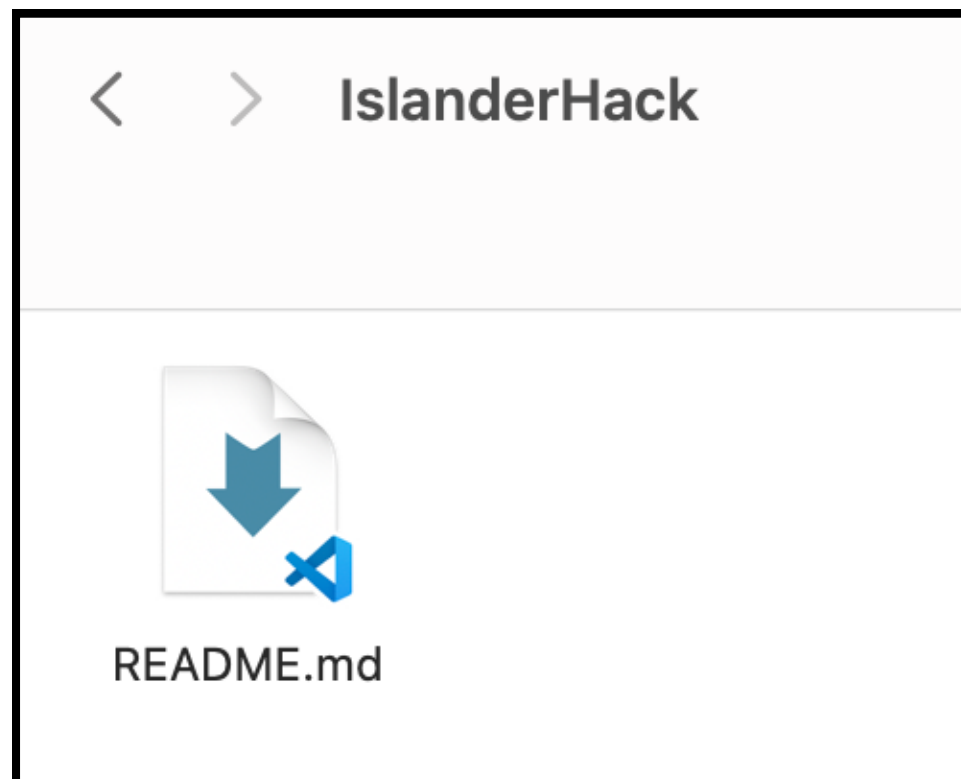
Add people

Open your terminal...

**We are cloning the repository to your
local computer**

```
>_

git clone https://github.com/your-username/your-repo-name.git
cd your-repo-name
```
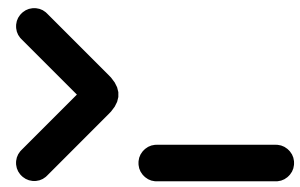
You should have this!

Let's test it!

One person in your team, open the README file and edit it, then commit & push...

```
>_

git add README.md
git commit -m "Updated README file with date"
git push origin main
```
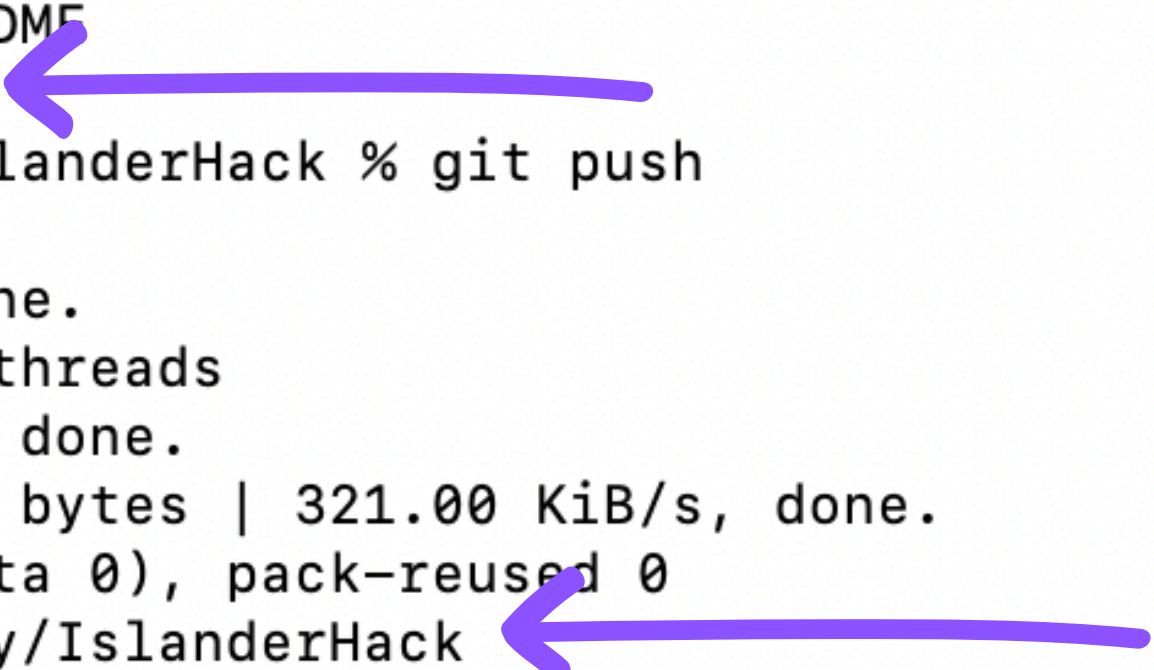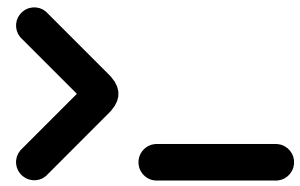
Always have a clear commit message

Let's test it!

```
malakmahdy@Malaks-MacBook-Air IslanderHack % git add README.md
malakmahdy@Malaks-MacBook-Air IslanderHack % git commit -m"Added date to README"
[main 95e2ec1] Added date to README
 1 file changed, 1 insertion(+)
malakmahdy@Malaks-MacBook-Air IslanderHack % git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 321 bytes | 321.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/malakamahdy/IslanderHack
   00ae357..95e2ec1  main -> main
```

Let's test it!

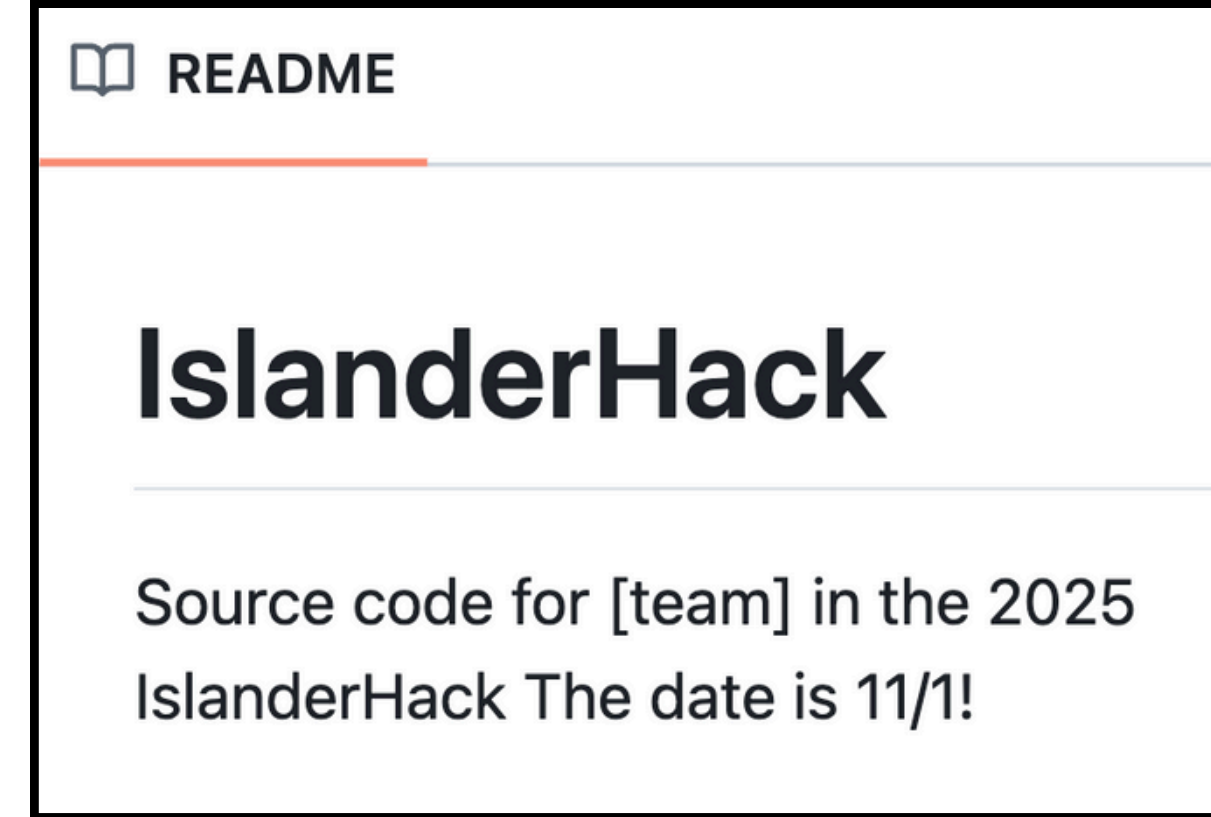If you did NOT edit the README, PULL after your teammate PUSHES

```
>_

git pull origin main
```

Let's test it!

You should now have the chances your teammate made locally, and the repository online will reflect the changes

📖 README

IslanderHack

Source code for [team] in the 2025 IslanderHack

📖 README

IslanderHack

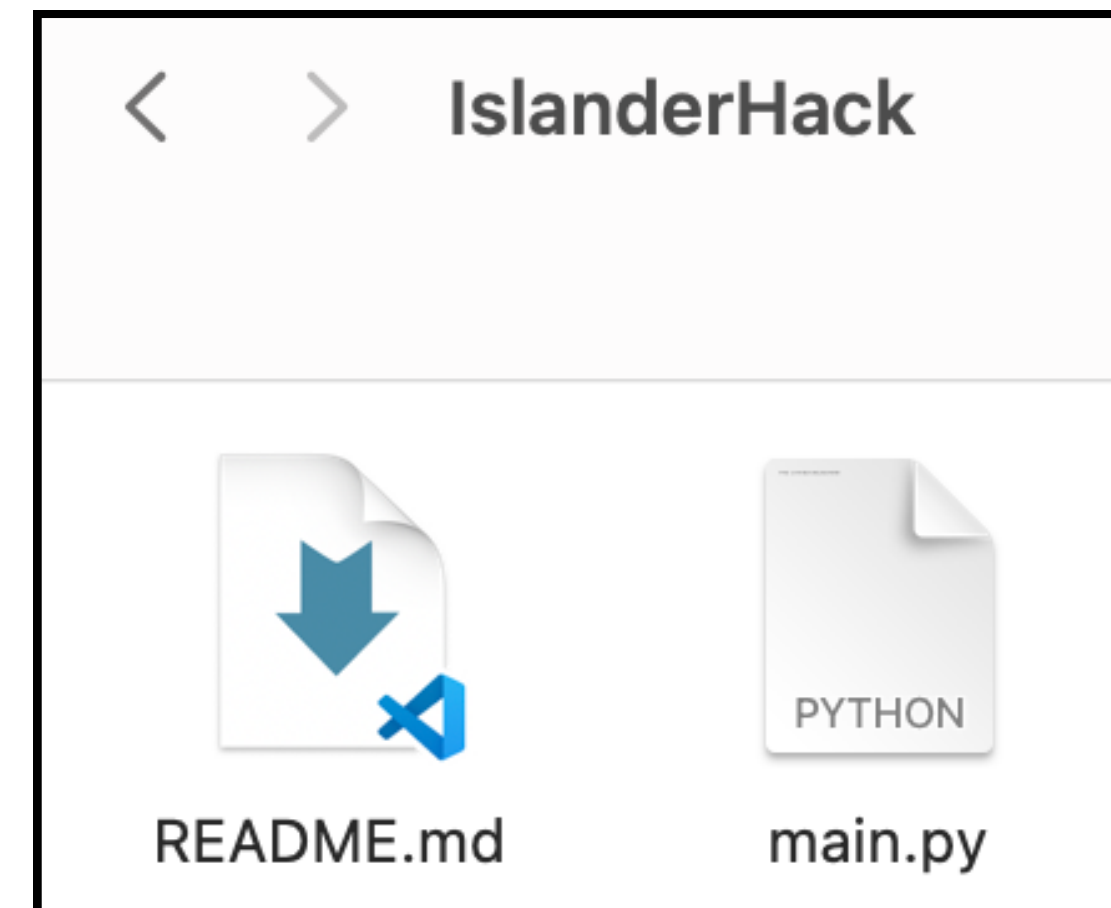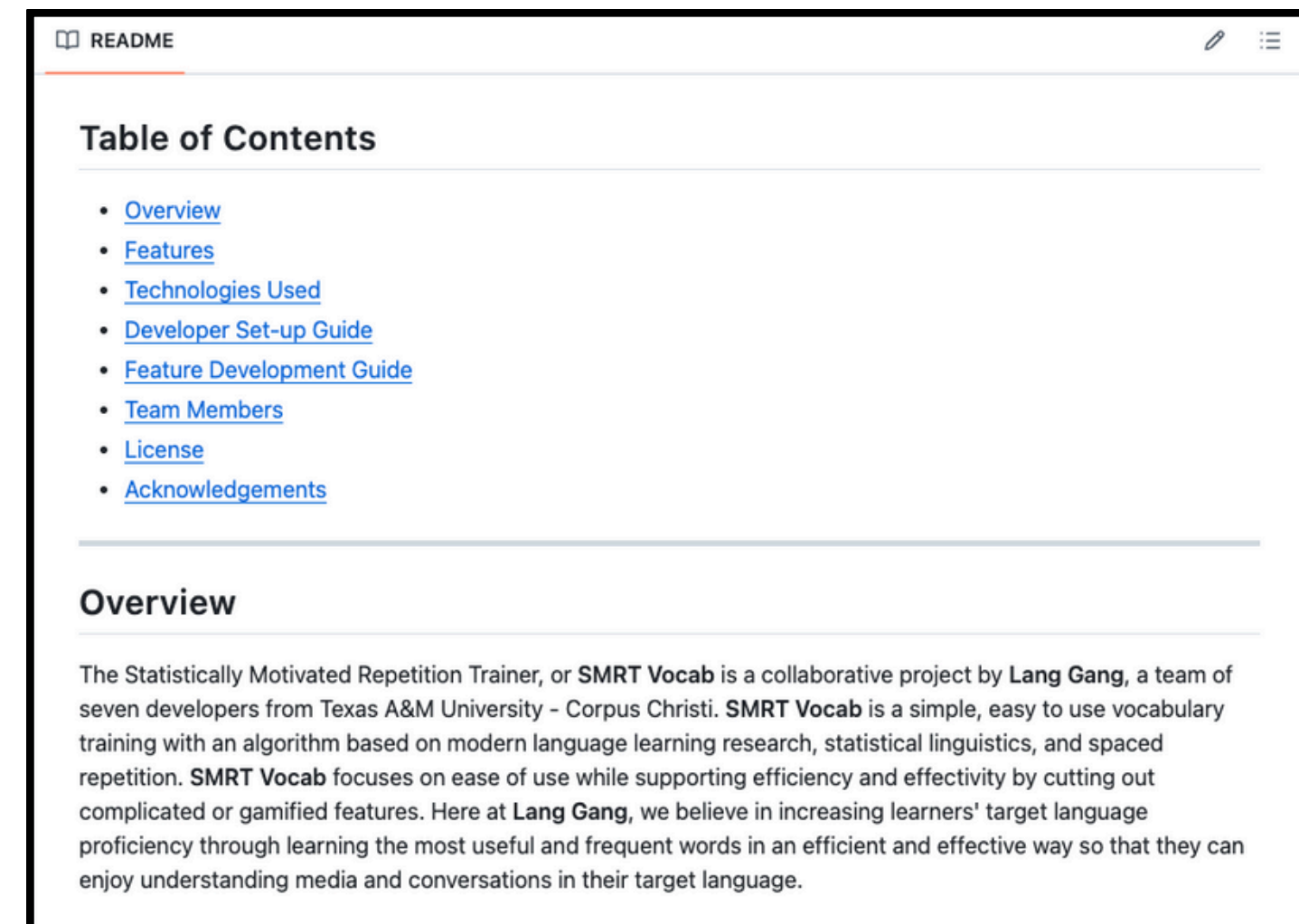Source code for [team] in the 2025 IslanderHack The date is 11/1!

Follow the GitHub flow

- Now, add files to your repository locally, and commit, push, and pull changes
- Your teammate commits & pushes, you pull (and vice versa)
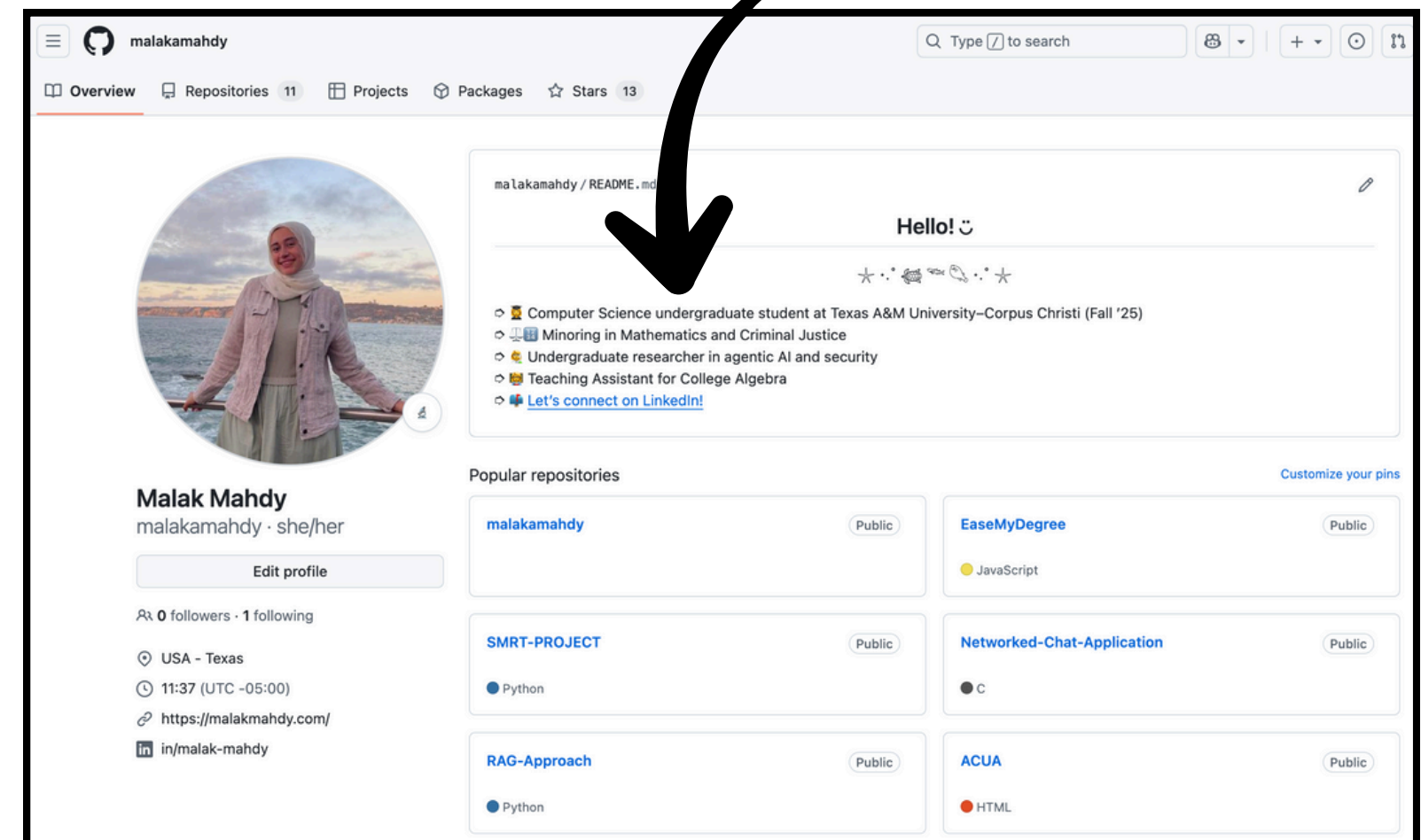
Nice touchups

- Make a nice README using markdown!
- Provides a guide for those viewing your projects
  - Potential employers

Nice touchups

- Make a nice profile!
- Edit your account's README
- Lets those viewing your profile know who you are
  - Also potential employers!

Short bio

Reminders

- To prevent any "merge" issues, do not work on the same file simultaneously
- Keep CLEAR commit messages in case you need to rollback versions
- Communication is key!

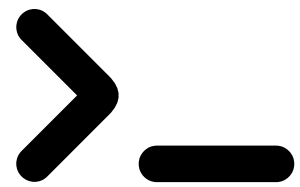# For commit & push

```
>_

git add file1.txt file2.png file3.py
# Or you can do the following to stage all files you modified:
git add .
git commit -m "Clear, descriptive commit message"
git push origin main
```

For pull

```
>_
git pull origin main
```

Scan for slidedeck