Git & Github

By Emmanuel Borishade

Git vs Github

Git

- Software

- Command line control system

Github

- Host for git repositories

- Browser control system

Git

- Local
- Unique for "Branching" model
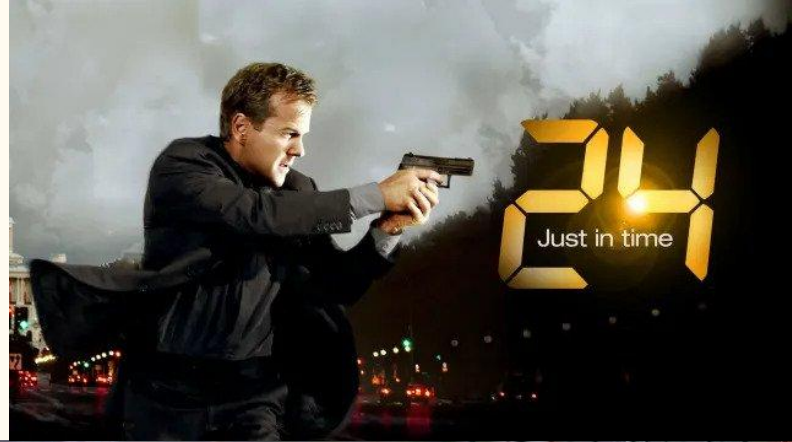- Maintained by Linux Foundation

Github

- cloud-based
- Collaboration model
- Purchased by Microsoft

Must Watch: 24

- Action
- Suspense
- "realtime"

Start at season 4,
go forward

https://www.imdb.com/title/tt0502251/

What is Git?

A "high quality <u>version control</u> system"

—

Github hosts the files with changes.
There are alternatives...

How to use Git

```
kaeko@kaeko:~$ cd GITHUB
kaeko@kaeko:~/GITHUB$ git init
Reinitialized existing Git repository in /home/kaeko/GITHUB/.git/
kaeko@kaeko:~/GITHUB$ git add randomFile.txt
kaeko@kaeko:~/GITHUB$ git commit -m "Just made random file to add"
[master baedcf3] Just made random file to add
 1 file changed, 1 insertion(+)
 create mode 100644 randomFile.txt
kaeko@kaeko:~/GITHUB$ git add thisScreenshot.png
```

File Edit View Search Terminal Help

```
kaeko@kaeko:~/GITHUB$ git remote add origin https://github.com/Eborishade/CSC210
fatal: remote origin already exists.
kaeko@kaeko:~/GITHUB$ git push
Username for 'https://github.com':
```

More on "git push"

1. First tell it where to push
   a. $git remote add origin [github file url]

Folders   HP DeskJet 3700 All-i...   College   search   Blackboard Learn   Chinese   Japanese   Data Structures   Classes to take   Network Security

‹› Code   Issues 0   ⓘ Pull requests 0   ▶ Actions   Projects 0   Wiki   Security   Insights   Settings

New Repository Test for CSC210   Edit

Manage topics

◦ 6 commits   ⑂ 1 branch   ▢ 0 packages   ♡ 0 releases   ⚬ 1 contributor

Branch: master ▾   New pull request   Create new file   Upload files   Find file   Clone or download ▾

Eborishade Third and Final Update   Latest commit 7774bcc 26 minutes ago

README.txt   small edit to README   2 days ago

randomFile.txt   Just made random file to add   42 minutes ago

thisScreenshot.png   Third and Final Update   26 minutes ago

kaeko@kaeko: ~/GITH

File   Edit   View   Search   Terminal   Help

kaeko@kaeko:~/GITHUB$ git remote add origin https://github.com/Eborishade/CSC210
fatal: remote origin already exists.
kaeko@kaeko:~/GITHUB$ git push
Username for 'https://github.com':

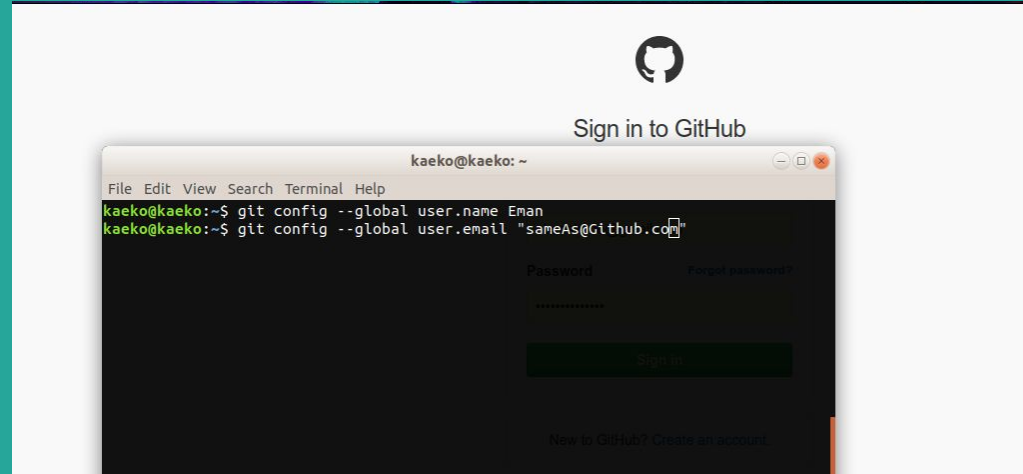# Must Watch: 91 Days

Action
Drama
Historical: Prohibition
Era

https://myanimelist.net/anime/32998/91_Days

Making an Account: Git

- ## Username <u>not</u> essential

  -havn't seen it

Use <u>same Email</u> for both

Making an Account: Github

- Username is essential

  -its everywhere

Built for developers

GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 40 million developers.

Username

Email

Password

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. Learn more.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our Terms of Service and Privacy Statement. We'll occasionally send you account related emails.

Use same Email for both

How Easy is it? Very

1. Download
2. initialize anywhere
3. add to git
4. commit -message
5. push to Github

Must Watch: The Blacklist

- ### Action
- ### Mystery
- ### Drama
- ### Crime

https://www.nbc.com/the-blacklist

Git theory: Branches

- A unique set of code changes under unique name

What you are working with.

Master Branch

-All changes merged to this branch

Located at: github.com/yourname/projectname

Checkout

$git branch -a

$git checkout -b [branchname]

$git checkout [branchname]

For more see:
https://thenewstack.io/dont-mess-with-the-master-working-with-branches-in-git-and-github/

Must Watch: Eve no Jikan

- Sci-Fi
- Drama
- "Slice of Life"

My Github

https://github.com/Eborishade/CSC210/

1. Presentation
2. Screenshots w/ edit history

Other Sources

1. The Github notes:
   https://docs.google.com/document/d/1gGfbhzmo_C_UEuZNVG1ESLobwwhdRklL0JXuc-e-_Gk/edit

2. What are branches?
   https://thenewstack.io/dont-mess-with-the-master-working-with-branches-in-git-and-github/

3. Your Git vs Github Username?
   https://help.github.com/en/github/using-git/setting-your-username-in-git

4. Get git, get gud: git-scm.com/downloads

5. Github Signup: github.com