### Git Happens

Session 2.0

Collaboration using Git and Github



### Let's Recap

Version Control Systems git config and git init

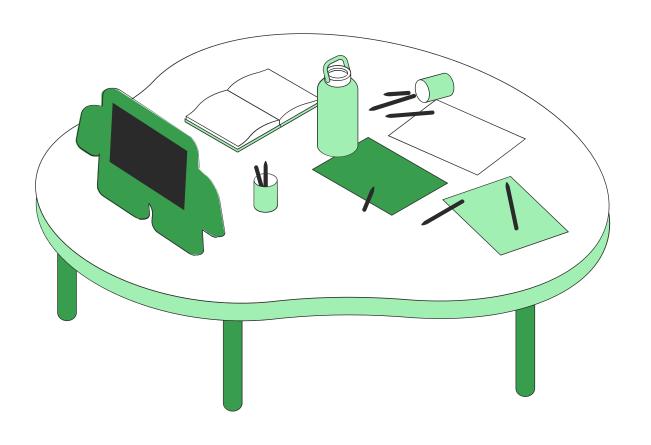
git add and git commit

git status

git branch

git merge and conflicts

## But why Git?

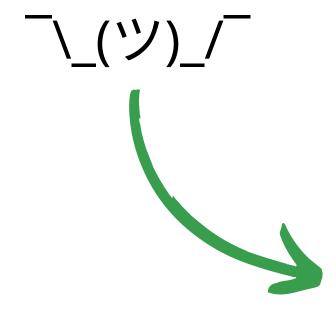


### Problems that git solves

- 1. Collaboration
- 2. Version Control
- 3. Synchronisation

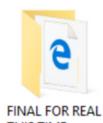




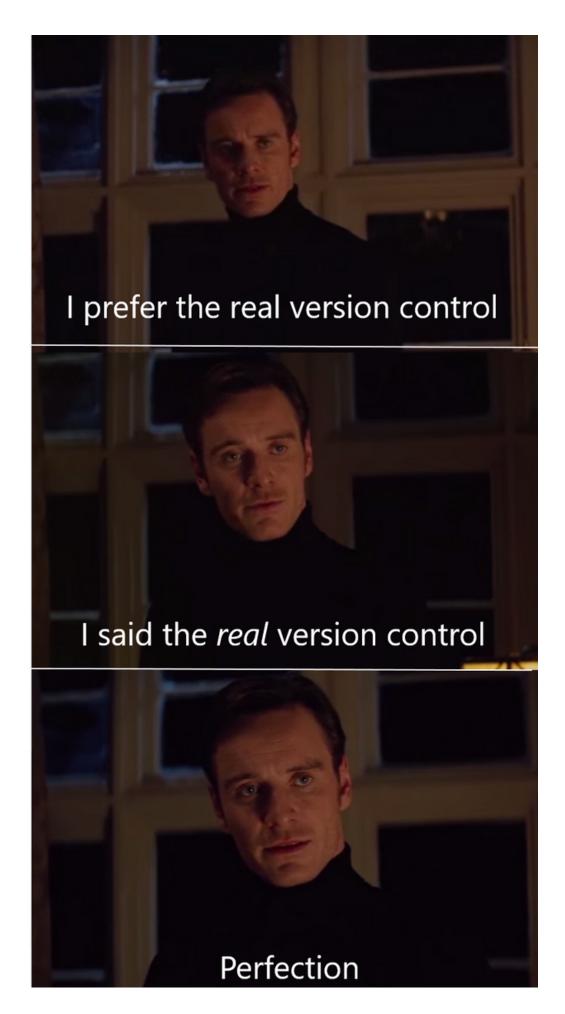












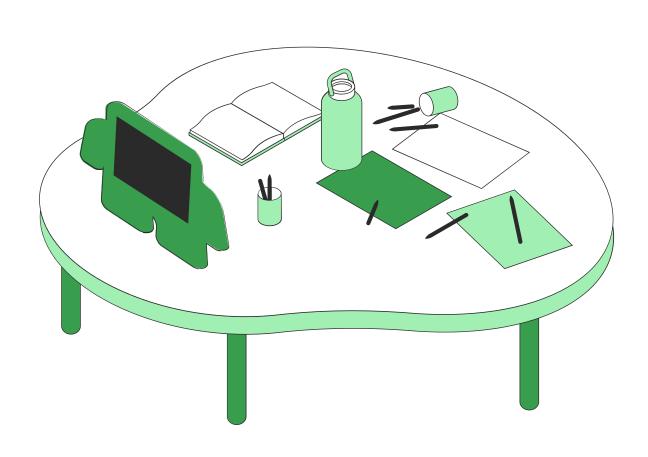
#### Normie Solutions

- Copying files over using pendrive
- Google Docs
- Dropbox / OneDrive

### Best Solution



## But why Git?

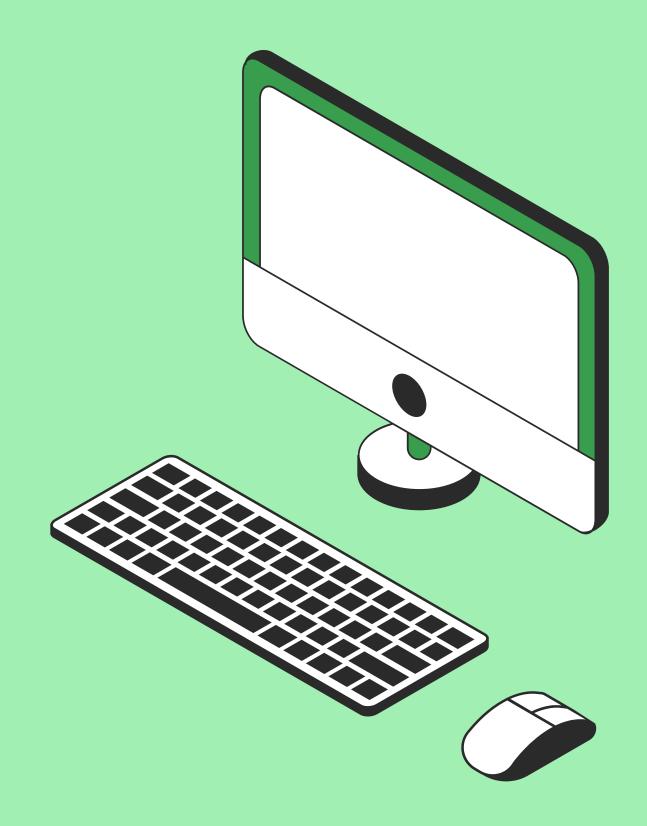


O1 Easy Version Control

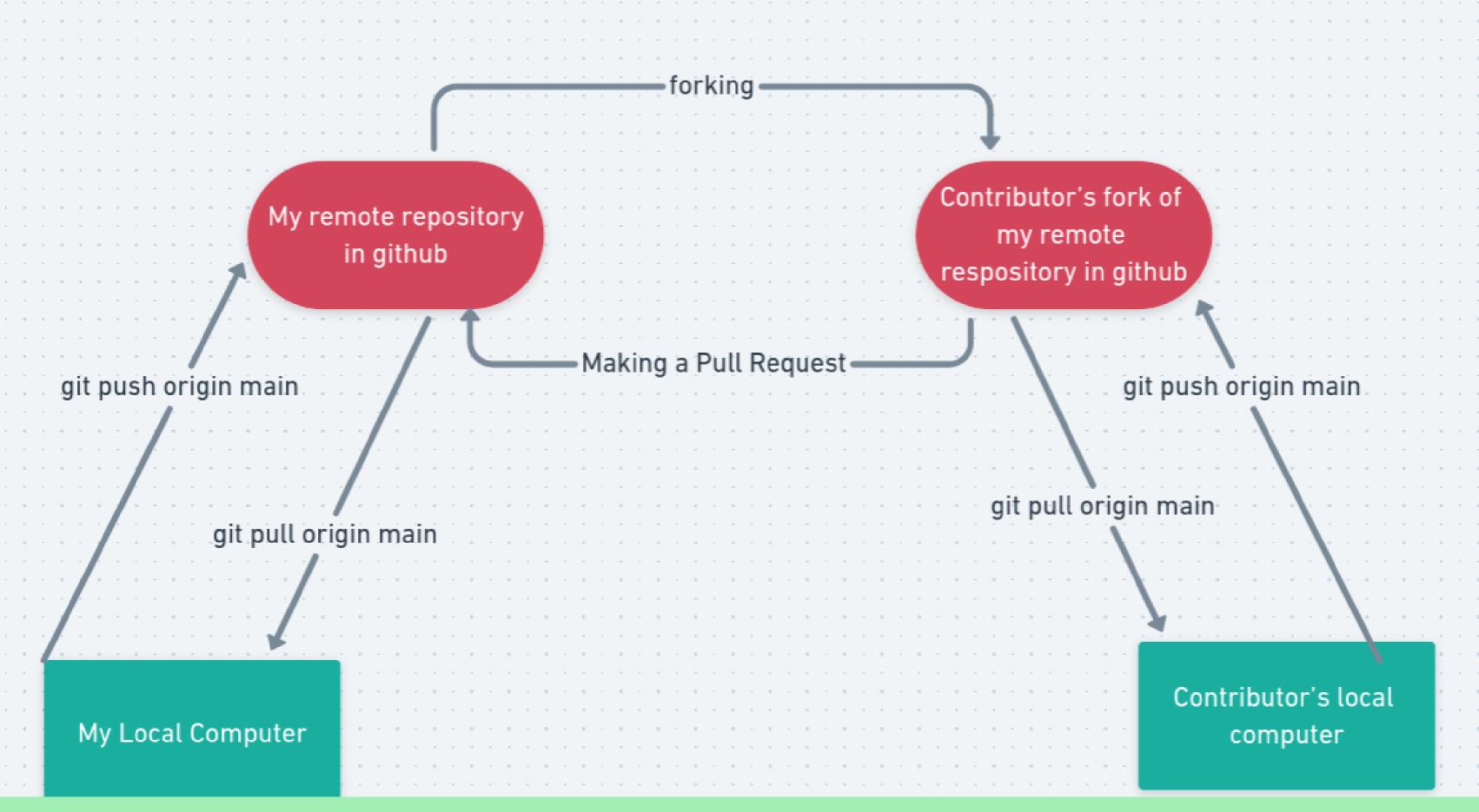
O2 Synchronization of files

O3 Seamless
Collaboration

### Let's solve using Git



#### Code Contribution Workflow



### Notes and walkthrough of our session

#### Git commands for collaboration

- git remote add origin <url>
  - a. Used for connecting a github repository to your local folder
- git push origin main
  - a. To push the changes in your local folder to github repository
- - a. To pull in changes from the remote repository in github
- - To completely clone all the code and commit history from a remote repository in github to your local machine

1. Create a new folder and initialize ait

Steps to push your local repository to github

Open the document here



### How they did it back in the day

```
$ git format-patch master

0001-My-feature-commit-1.patch

0002-My-feature-commit-2.patch
```

Awesome!

```
From 92beecf67198278df5a5de92b82cdfd41e44fabd Mon Sep 17 00:00:00 2001
From: Antoine <test@gmail.com>
Date: Sat, 14 Dec 2019 03:07:46 -0500
Subject: [PATCH] added file from mybranch

---
    .gitignore | 1 +
    myfile | 1 +
    2 files changed, 2 insertions(+)
    create mode 100644 .gitignore
    create mode 100644 myfile

diff --git a/.gitignore b/.gitignore
    new file mode 100644
index 0000000.182b43e
--- /dev/null
```



- Git is a version control system
- Git runs locally on the user's computer
- Git is maintained by the Linux community



- GitHub is a web-based hosting service for Git repositories
- GitHub is hosted on the web
- GitHub is maintained by Microsoft



### A few Cool resources

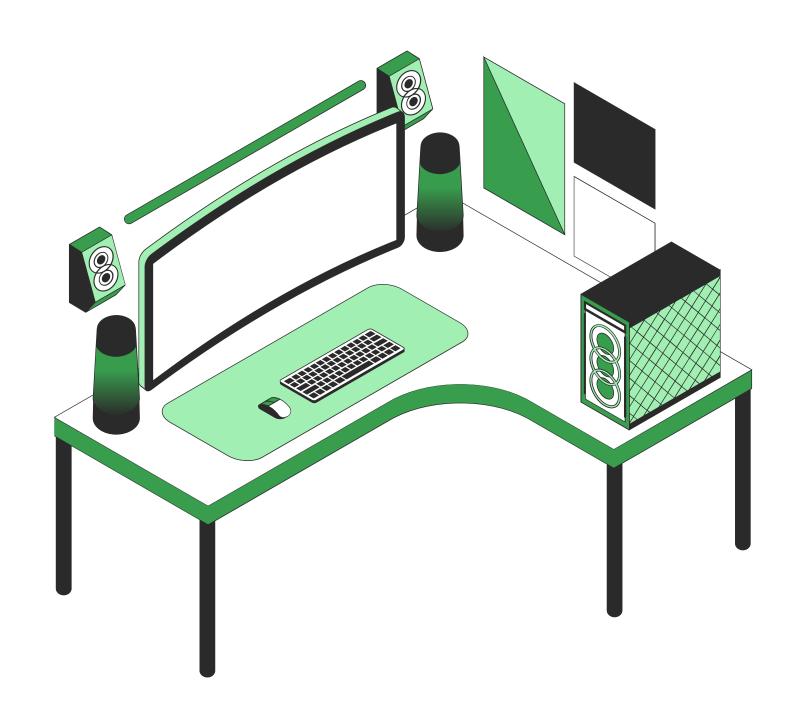
Ted talk by Linus Torvalds on Linux and Git

GitLens extension for VSCode

Common Git commands explained in a hilarious manner

The Ultimate Git Cheatsheet

Making a PR - Our Workflow



# That's it folks! Do you have any questions?

Let's **git** going!!