Github Introduction





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Plan

- Github definition
- Github configuration
- Github features
- How to use Github
- Github simulation
 - •Create a GitHub repository
 - •SSH keys Setup
 - •Pull Requests

Why Github?

Local management of projects

Hosting in Cloud





Working Directory

Local machine

If computer get corrupted or breaks we loose the project

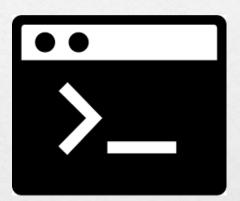






Command line usage

Graphical interface





Interactive features

microsoft/transductivevos.pytorch



a transductive approach for video object segmentation

R3 4

Contributors

⊙ 8

☆ 142

೪ 32

Issues Stars

Forks



What is Github?



- GitHub was developed by Chris Wanstrath, P. J. Hyett, Tom Preston-Werner and Scott Chacon using Ruby on Rails, and started in February 2008
- It is a subsidiary of **Microsoft**, which acquired the company in **2018** for \$7.5 billion
- GitHub.com is a site for online storage of Git repositories.
- The most popular hosting provider for Git(bitbucket, GitLab, AWS codecommit,...)
- You can get free space for open source projects or you can pay for private projects.

Question: Do I have to use Github in order to use Git?

Answer: No!

Git



GitHub



Git is installed and maintained on your local system (rather than in the cloud)



First developed in 2005



One thing that really sets Git apart is its branching model

Git is a high quality version control system

GitHub is designed as a Git repository hosting service



You can share your code with others, giving them the power to make revisions or edits



GitHub is exclusively cloud-based

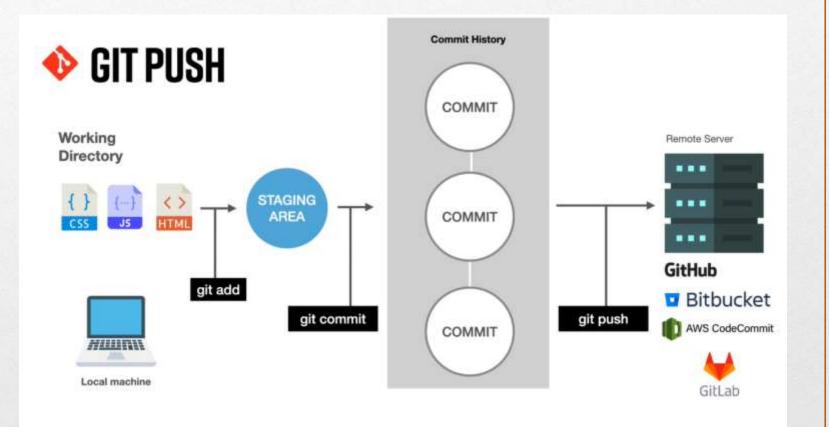


GitHub is a cloud-based hosting service

Github configuration



General workflow



Github Must know features

(C) GitHub

Développement collaboratif



Outils de communication



Travail d'équipe



Communauté « Open Source »

GitHub Command Line Interface

www.cli.github.com

GitHub CLI is here

Take GitHub to the command line

\$ gh pr status

Relevant pull requests in cli/cli

Current branch

There is no pull request associated with [

Created by you

You have no open pull requests

Requesting a code review from you

#1640 Add auth command and flag usage to Checks passing

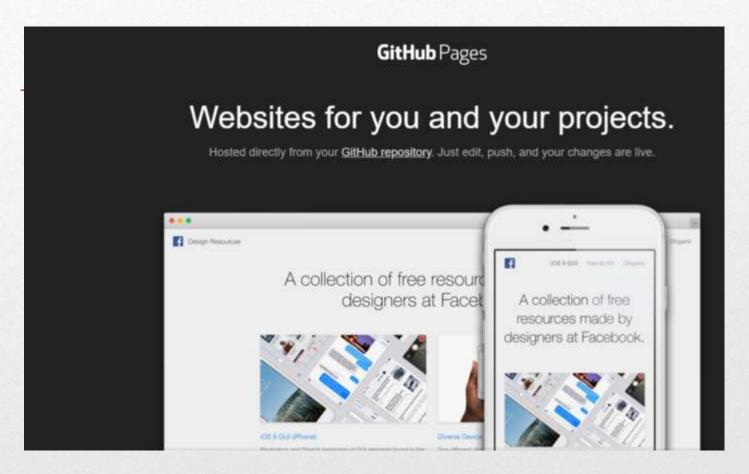
\$ gh --version
gh version 1.0.0
https://github.com/cli/cli/releases/tag/v1.0

GitHub Student Developer Pack

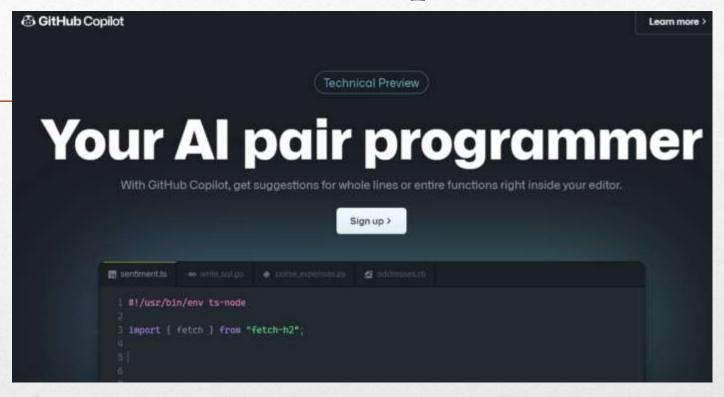


Free GitHub Pro while you are a student

GitHub Pages



GitHub Copilot



get suggestions for whole lines or entire functions right inside your editor

How to use Github







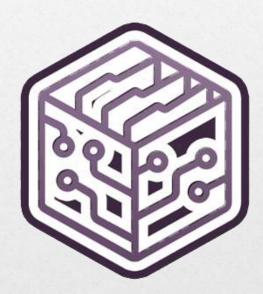




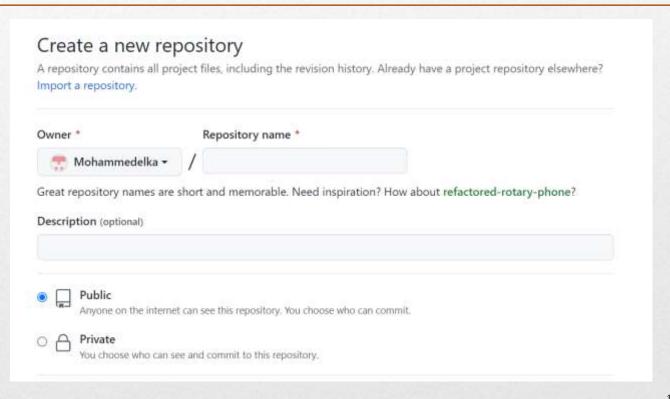
Online platform www.github.com



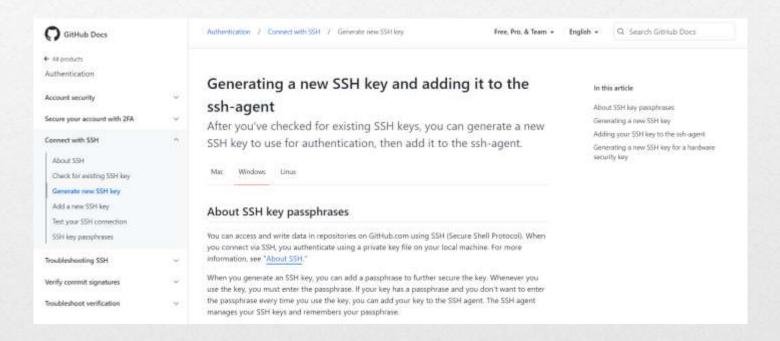
Practice Example



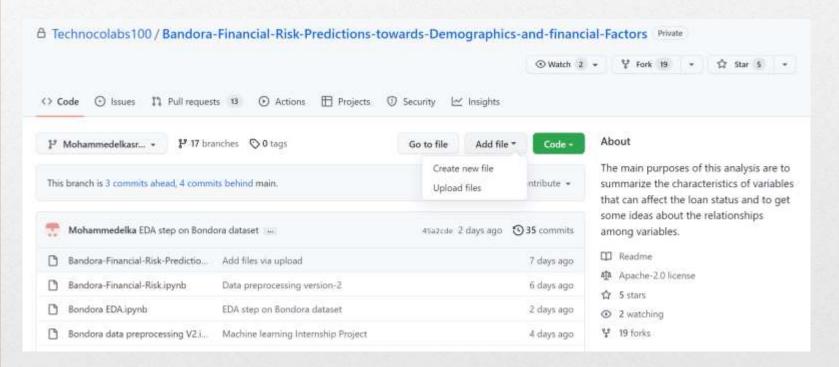
Create a Github repository



SSH keys setup



Pull Requests



Thank You

Bonus: Github.dev

