





GIT IT DONE

Abhinav Rajput & Devanshu Sinha





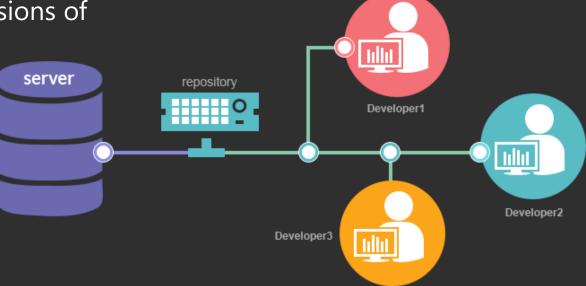


Git, GitHub - 101



Version Control System

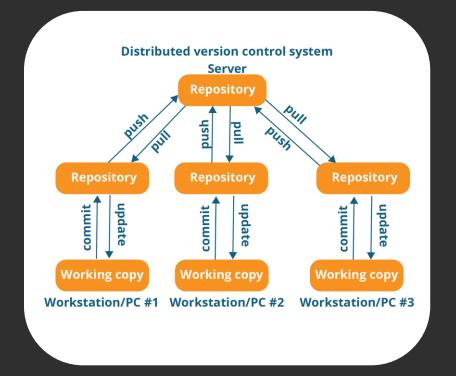
Essentially, it's a system that allows you to record changes to files over time, thus, you can view specific versions of those files later on.



git

Git

Git is software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows (thousands of parallel branches running on different systems)



Timeline













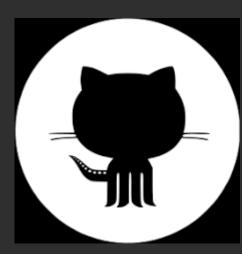




GitHub

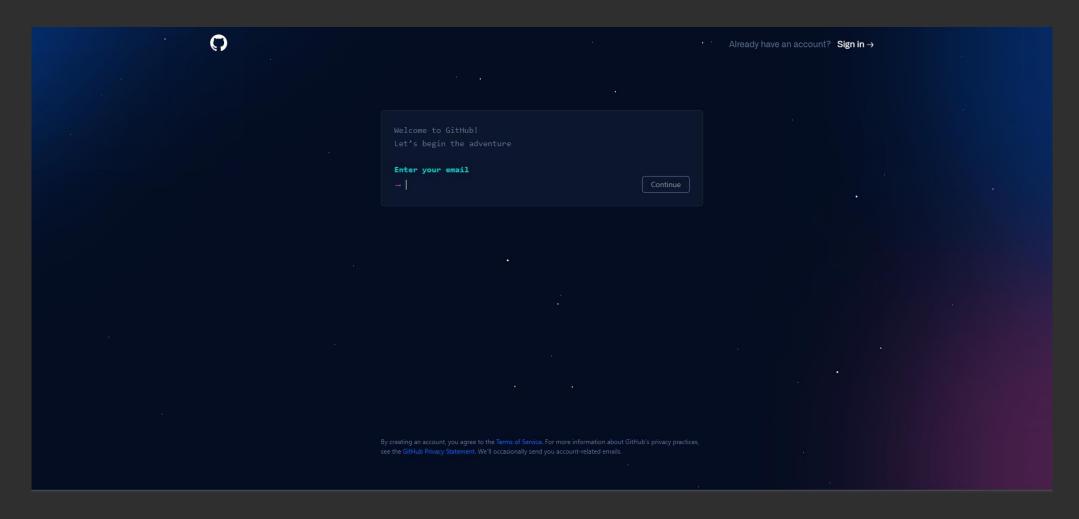
GitHub, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, continuous integration and wikis for every project. Headquartered in California, it has been a subsidiary of *Microsoft* since 2018.

It is commonly used to host open-source projects. As of November 2021, GitHub reports having over 73 million developers and more than 200 million repositories (including at least 28 million public repositories). It is the largest source code host as of November 2021.



Octocat

Sign Up Page



Use Case

- Developers
 - · Work in a team projects
 - · Maintain a project with version control
 - · Develop a portfolio for recruiters
 - To be able to contribute to Open Soure projects
 - · GitHub is a necessary skillset required by organizational structures

- Programmers
 - Maintain a portfolio of Programming Projects
 - Maintaining the solution base to their problem
 - · Storing notes and learning material

GitHub Student Developer Pack

GitHub Education is an platform which offers students real-world experience with free access to various developer tools. So what all do you get for free in GitHub Education? There is a range of software and learning tools one can get for free with GitHub Education







Canva



Add SRM email



Select the added SRM email in Sign Up Page



Upload the IDcard Form



Within 3 days your pack gets activated

Git Workflow

Workflow

Start/ Find a Repo

Forking/Initialize Repo

Create a Branch

Write Code

Store Changes

Commit Changes

Push Modifiers

Pull Request

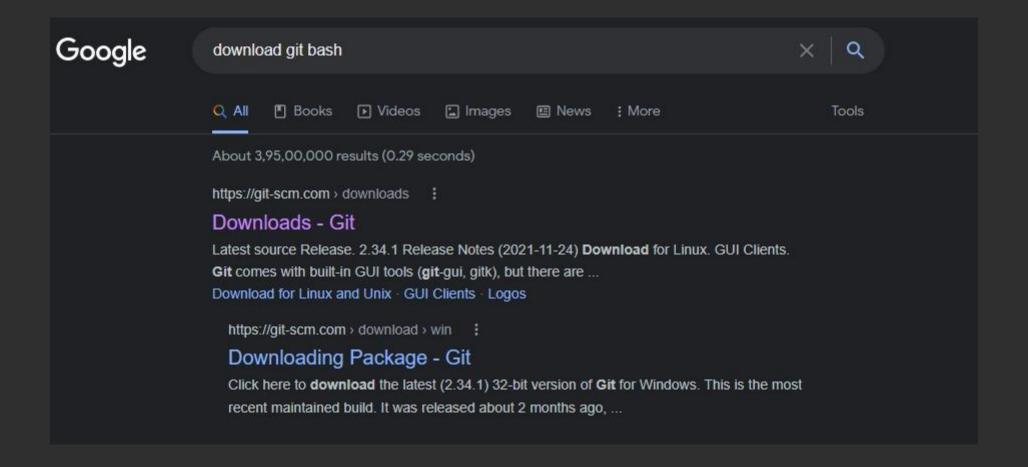
Review the code

Merge of Branches

CLI Tutorial



Download Git Bash



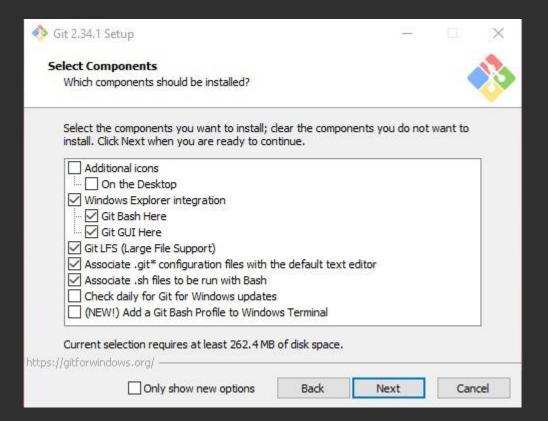
Download Git Bash





Download Git Bash





Setting Up GitBash

Set your username & email

- git config --global user.name "Bob"
- git config --global user.email bob@example.com

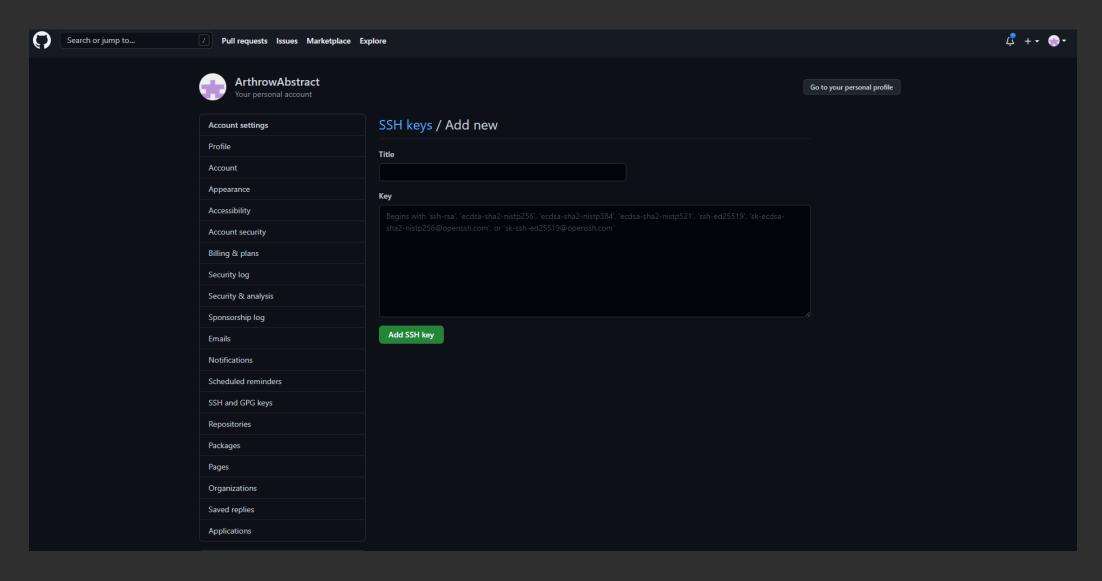
Generating SSH key

• ssh-keygen -t ed25519 -C " your_email@example.com "

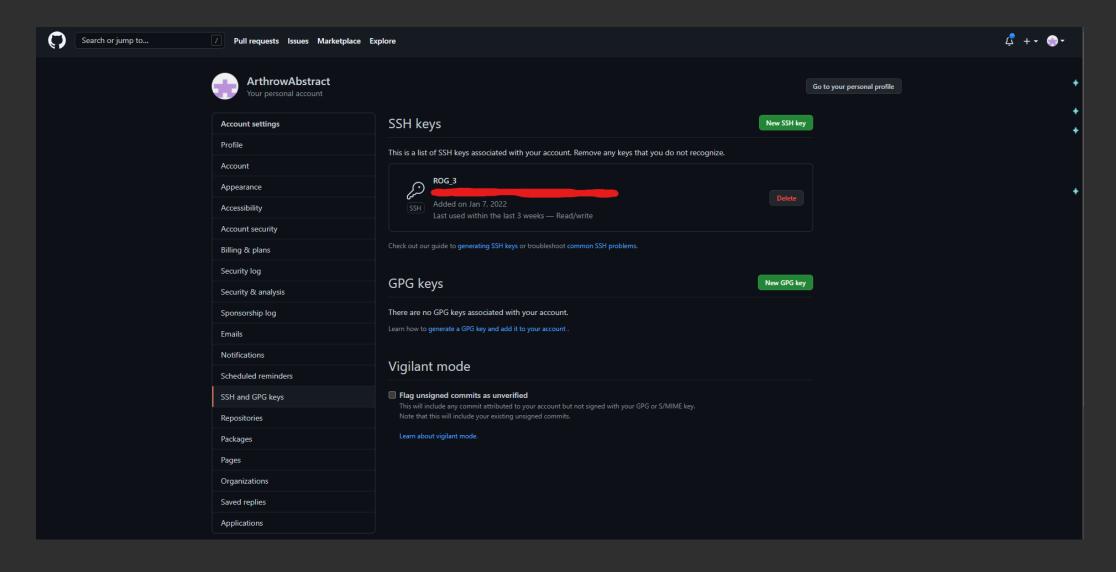
Adding SSH key

- eval "\$(ssh-agent -s)"
- ssh-add ~/.ssh/id ed25519
- clip < ~/.ssh/id_ed25519.pub

GitHub Page SSH and GPG Page



GitHub Page SSH and GPG Page



Starting with GitHub

- git clone <link>
- cd git-it-done
- git checkout -b <branch name>
- git status
- git add .
- git add filename.xyz
- git commit -m "commit message"
- git push origin <your branch name>

Q/A

Abhinav Singh Rajput & Devanshu Sinha



Thank you for joining! Stay tuned for our upcoming sessions.

Follow our socials and stay up to date!

