

The graphic features a central shield-shaped badge with a blue border and a dark blue background. The text "Microsoft Learn" is at the top, "STUDENT AMBASSADOR" is on a banner across the middle, and a stylized person icon is at the bottom. The badge is surrounded by three glowing lines: a horizontal blue line on the left, a purple line at the bottom, and a diagonal blue line on the right. Each line has small glowing dots. The background is dark gray with faint cloud shapes.

Microsoft
Learn

STUDENT AMBASSADOR



Microsoft Learn
Student Ambassadors



GIT IT DONE

Abhinav Rajput & Devanshu Sinha

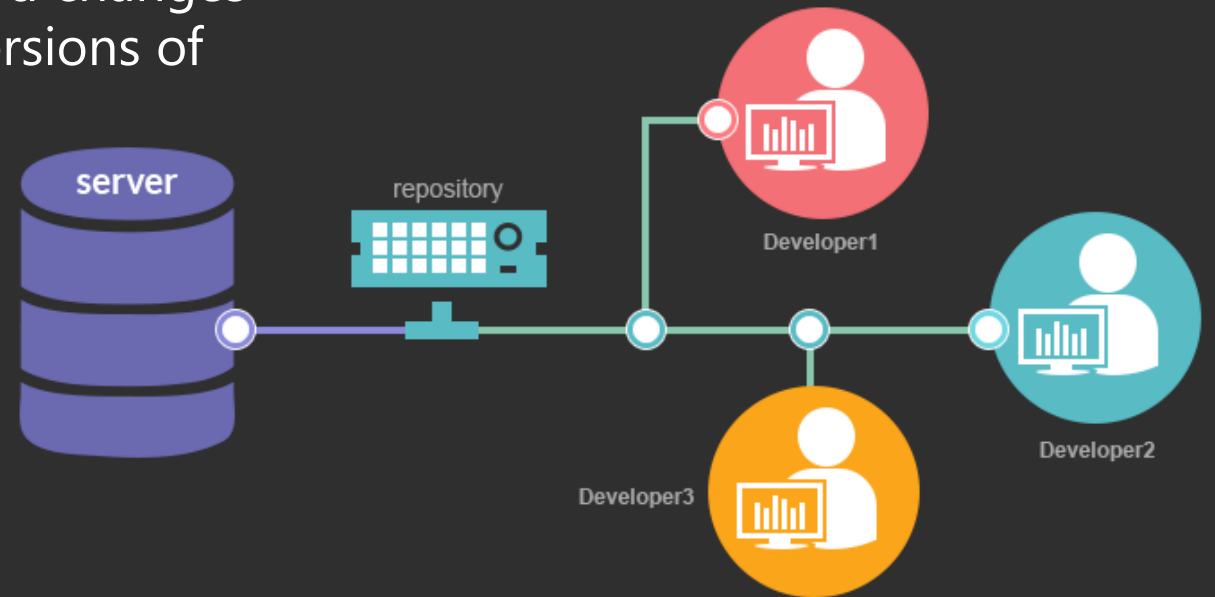


Git, GitHub - 101



Version Control System

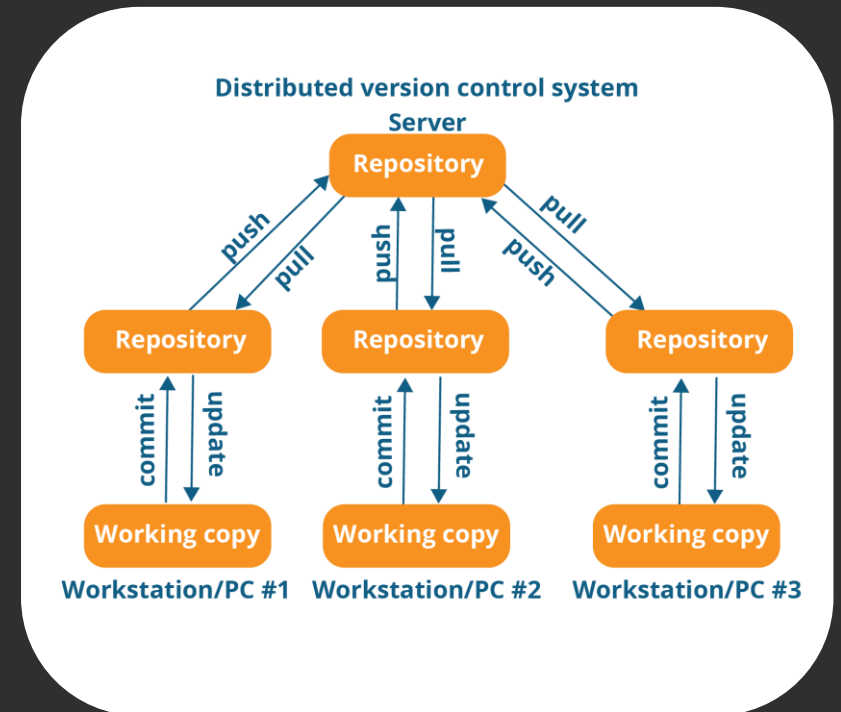
Essentially, it's a system that allows you to record changes to files over time, thus, you can view specific versions of those files later on.



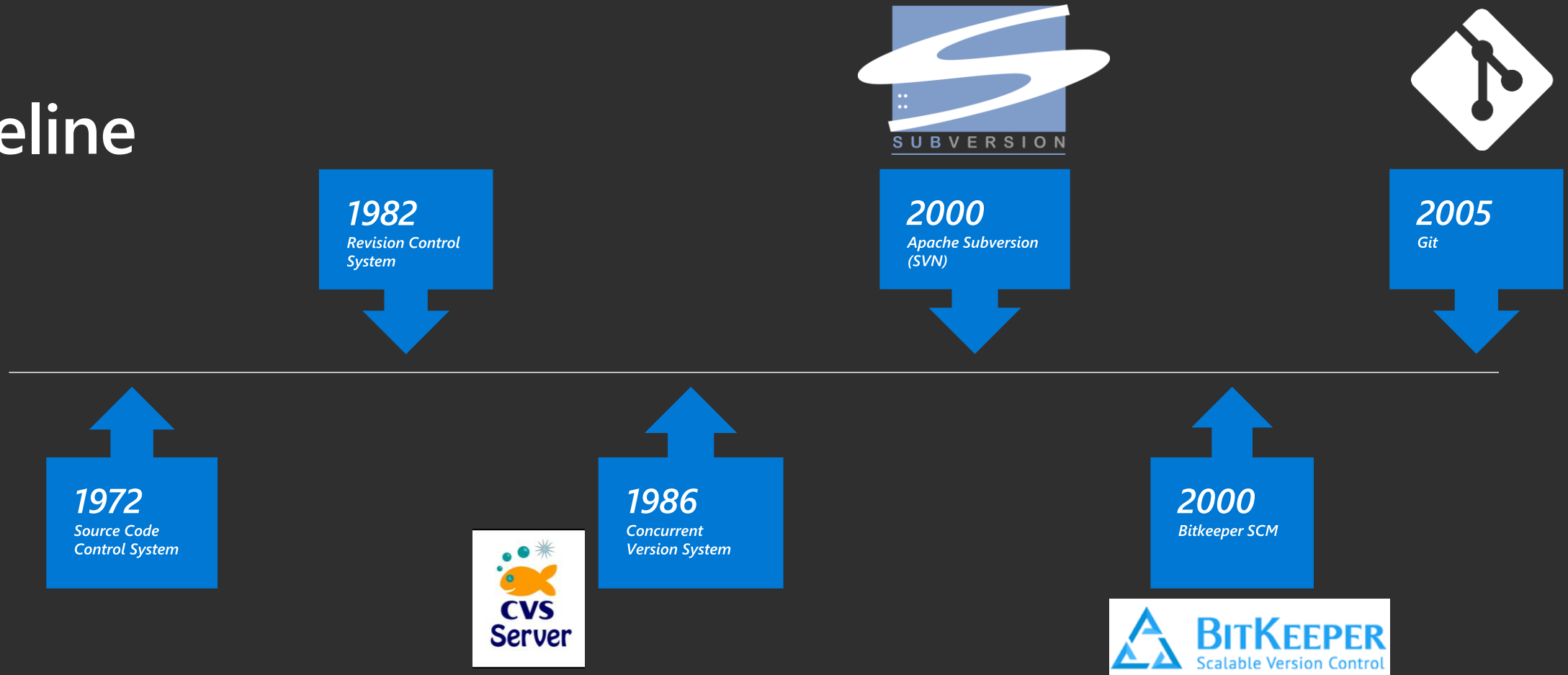


Git

Git 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)



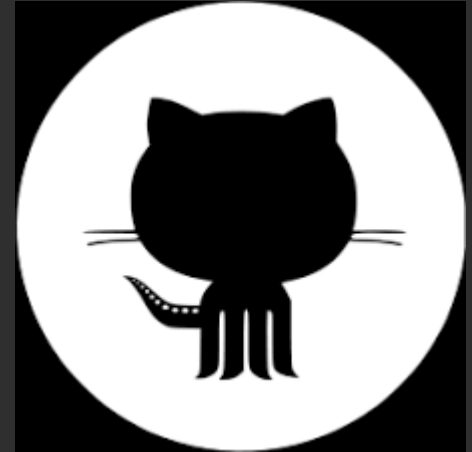
Timeline



GitHub

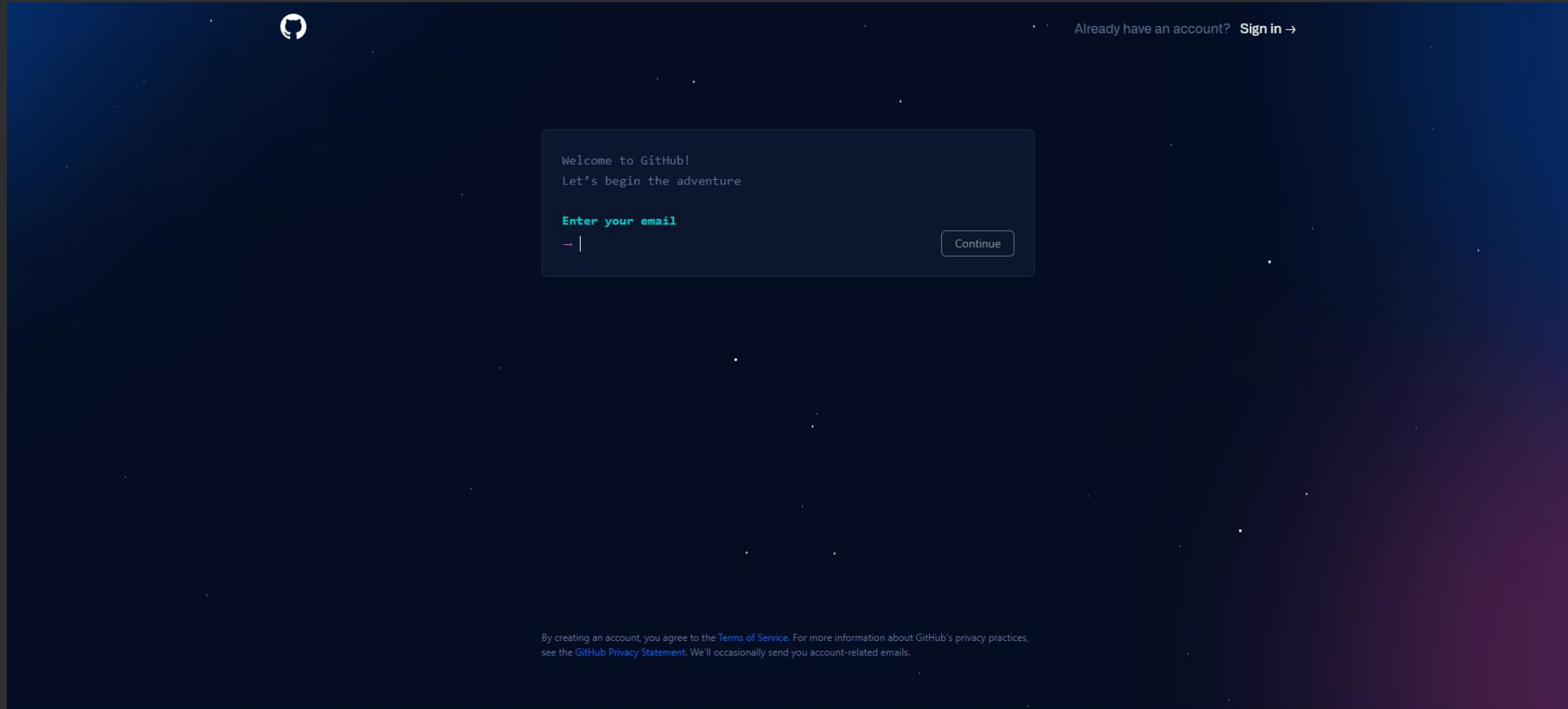
GitHub, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. It provides access control and several collaboration features such as bug tracking, 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



The image shows the GitHub sign-up page. At the top left is the GitHub logo. At the top right, there is a link for users who already have an account. The main content area is a dark blue box with a light blue background. It contains a welcome message, a prompt to enter an email, and a 'Continue' button. At the bottom, there is a small disclaimer about the terms of service and privacy statement.

 Already have an account? [Sign in](#) →

Welcome to GitHub!
Let's begin the adventure

Enter your email

— |

[Continue](#)

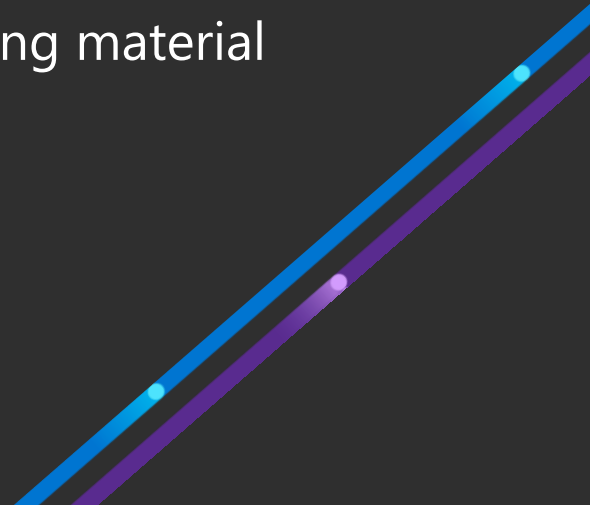
By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

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 Source projects
- GitHub is a necessary skillset required by organizational structures

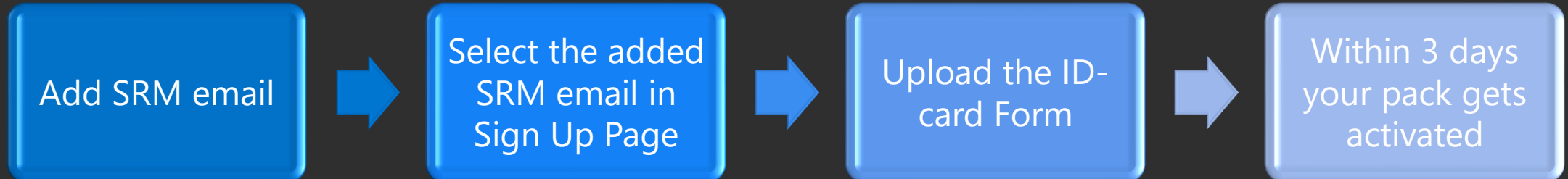
- Programmers

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

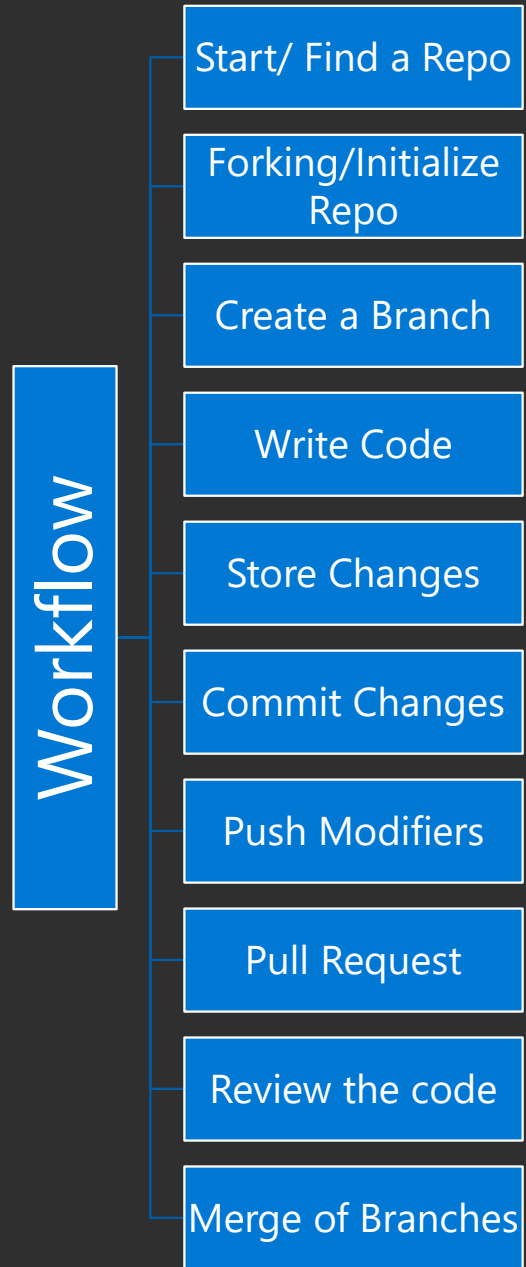
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GitHub Student Developer Pack

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



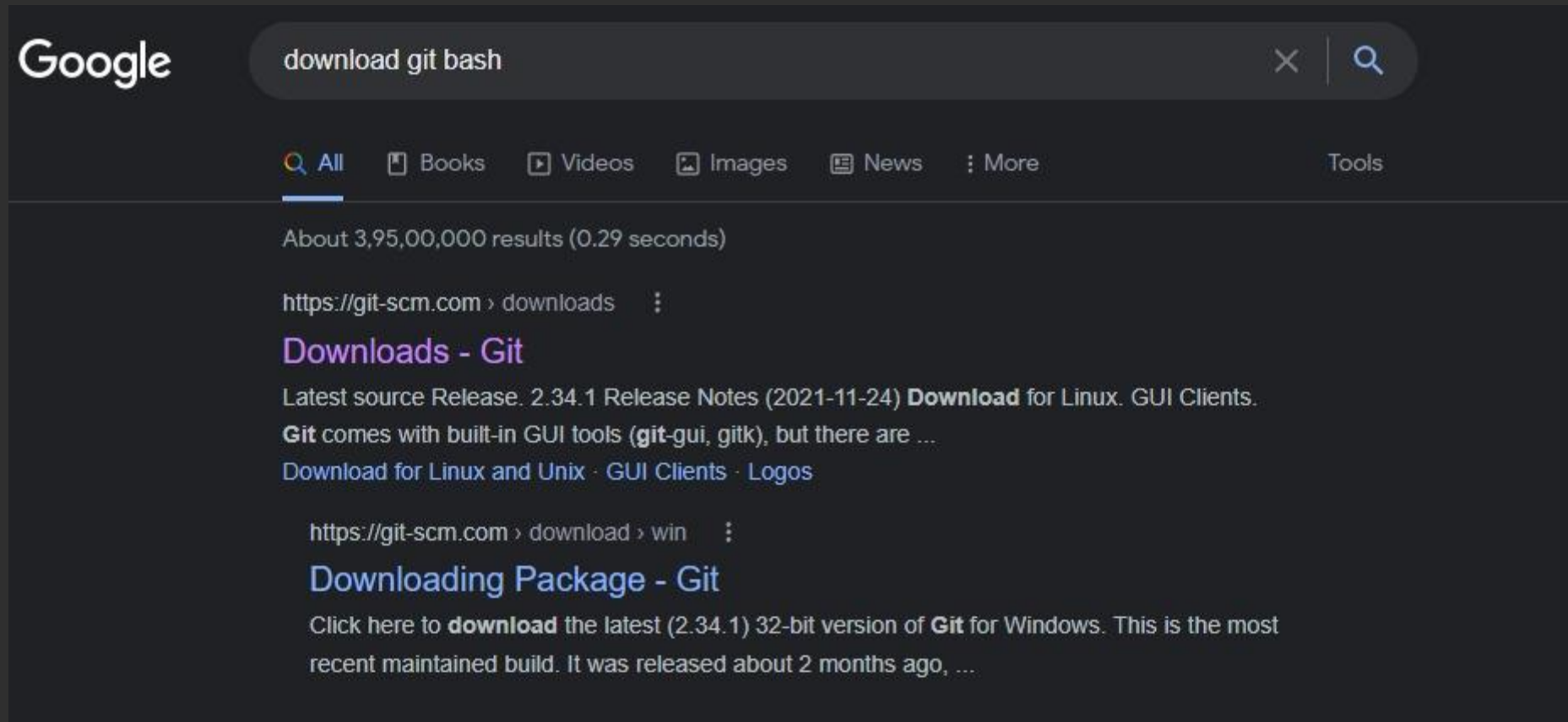
Git Workflow



CLI Tutorial



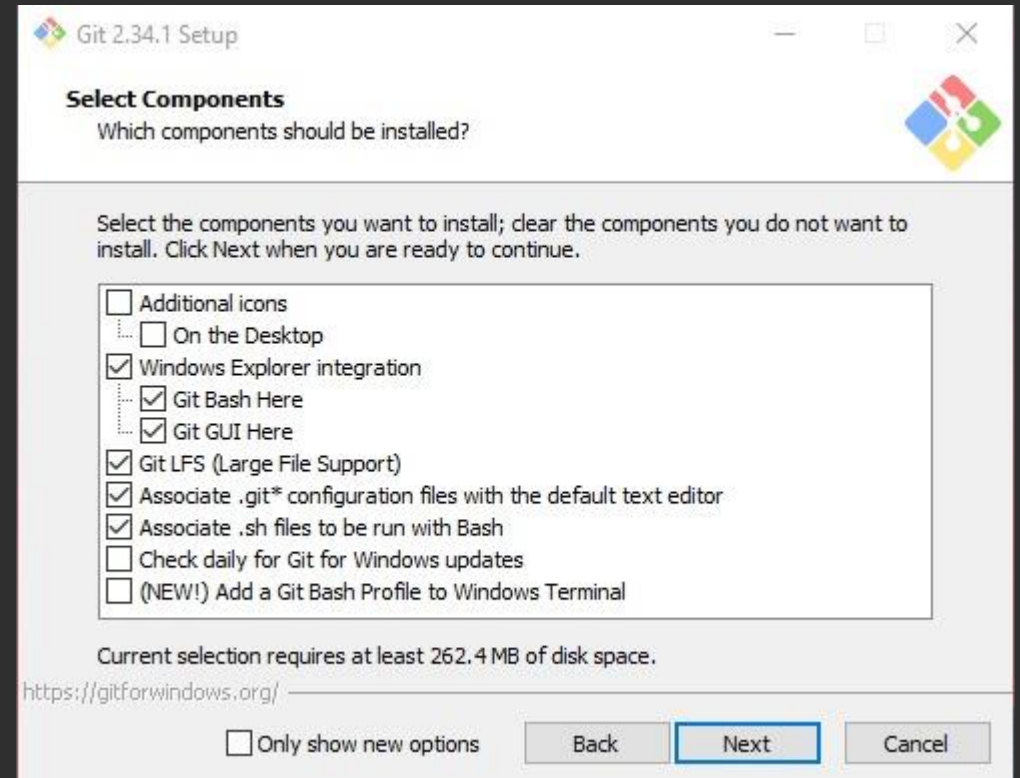
Download Git Bash



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

The screenshot shows the GitHub interface for a user named 'ArthrowAbstract'. The top navigation bar includes the GitHub logo, a search bar, and links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The user's profile picture and name are visible, along with a 'Go to your personal profile' button. On the left, a sidebar lists various account settings, with 'SSH and GPG keys' highlighted. The main content area is titled 'SSH keys / Add new' and contains a form with two fields: 'Title' and 'Key'. The 'Key' field has a text area with a placeholder message: 'Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', or 'sk-ssh-ed25519@openssh.com''. Below the form is a green 'Add SSH key' button.

Search or jump to... Pull requests Issues Marketplace Explore

ArthrowAbstract
Your personal account

Go to your personal profile

Account settings

- Profile
- Account
- Appearance
- Accessibility
- Account security
- Billing & plans
- Security log
- Security & analysis
- Sponsorship log
- Emails
- Notifications
- Scheduled reminders
- SSH and GPG keys
- Repositories
- Packages
- Pages
- Organizations
- Saved replies
- Applications

SSH keys / Add new

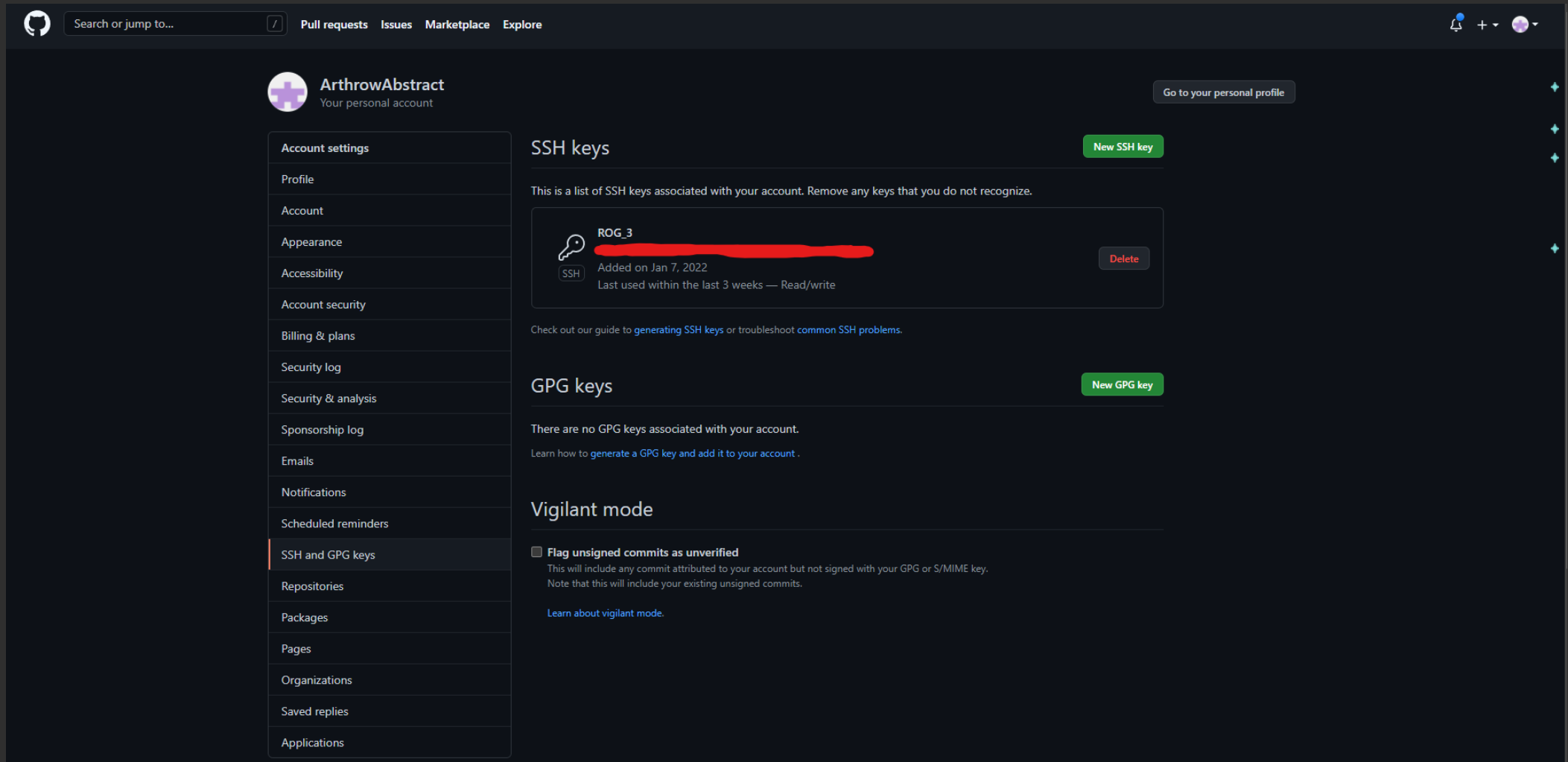
Title

Key

Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', or 'sk-ssh-ed25519@openssh.com'

Add SSH key

GitHub Page SSH and GPG Page



The screenshot shows the GitHub interface for a user named ArthrowAbstract. The top navigation bar includes the GitHub logo, a search bar, and links to Pull requests, Issues, Marketplace, and Explore. The user's profile is shown with a purple plus icon and the name ArthrowAbstract. A sidebar on the left lists various account settings, with 'SSH and GPG keys' highlighted. The main content area is divided into three sections: SSH keys, GPG keys, and Vigilant mode. The SSH keys section shows a single key named ROG_3, added on Jan 7, 2022, with a redacted key value and a 'Delete' button. The GPG keys section states there are no GPG keys associated with the account. The Vigilant mode section has a checkbox for 'Flag unsigned commits as unverified' which is currently unchecked.

Search or jump to... / Pull requests Issues Marketplace Explore

ArthrowAbstract
Your personal account

Go to your personal profile

Account settings
Profile
Account
Appearance
Accessibility
Account security
Billing & plans
Security log
Security & analysis
Sponsorship log
Emails
Notifications
Scheduled reminders
SSH and GPG keys
Repositories
Packages
Pages
Organizations
Saved replies
Applications

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

SSH ROG_3
Added on Jan 7, 2022
Last used within the last 3 weeks — Read/write
Delete

Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

New GPG key

There are no GPG keys associated with your account.

Learn how to [generate a GPG key](#) and add it to your account .

Vigilant mode

☐ **Flag unsigned commits as unverified**
This will include any commit attributed to your account but not signed with your GPG or S/MIME key.
Note that this will include your existing unsigned commits.

[Learn about vigilant mode.](#)

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 Rajput & Devanshu Sinha



Thank you for joining!
*Stay tuned for our upcoming sessions.
Follow our socials and stay up to date!*

