

# Introduction to Github



BY,  
RANJANI DEVI . P

# What is Github?

- **Web-based Git repository hosting service**
- **Easy management of code**
- **Open-source software for version control**
- **Effective collaboration**
- **Bug tracker**



# The Need for Github

- Developers need a web/cloud code hosting platform
- Useful for version control
- Enables effective collaboration
- Download projects and files in one go
- Easy evaluation of each other's work

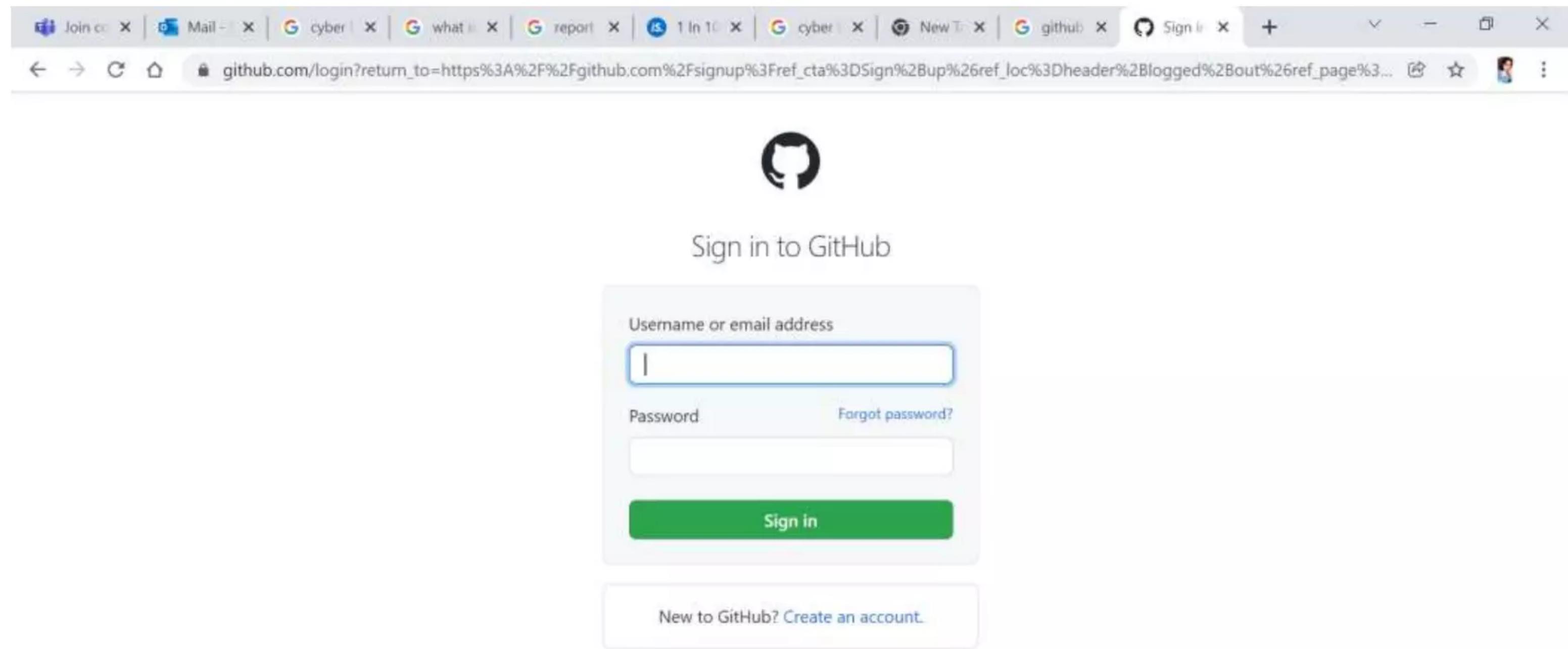
# What makes Github so popular?

- Immensely powerful community
- The largest shared repository
- Easy version control
- Secure cloud storage

## Basic Github Terminologies

- **Repositories** - Folder contains all the files related to a project
- **Read me file** - Basic instruction about the project
- **Commit** - Saving the state

# GitHub Sign In page



A screenshot of a web browser showing the GitHub sign-in page. The browser has multiple tabs open, including ones for 'Join c...', 'Mail -', 'cyber...', 'what...', 'report...', '1 in 10...', 'cyber...', 'New...', 'github...', and 'Sign in...'. The address bar shows the URL [github.com/login?return\\_to=https%3A%2F%2Fgithub.com%2Fsignup%3Fref\\_cta%3DSign%2Bup%26ref\\_loc%3Dheader%2Blogged%2Bout%26ref\\_page%3D](https://github.com/login?return_to=https%3A%2F%2Fgithub.com%2Fsignup%3Fref_cta%3DSign%2Bup%26ref_loc%3Dheader%2Blogged%2Bout%26ref_page%3D). The main content is the GitHub logo and the text 'Sign in to GitHub'. Below this is a form with fields for 'Username or email address' (containing a placeholder 'Username') and 'Password' (with a 'Forgot password?' link). A large green 'Sign in' button is at the bottom of the form. Below the form is a link 'New to GitHub? Create an account.' At the bottom of the page are links for 'Terms', 'Privacy', 'Security', and 'Contact GitHub'.

# Github workflow

## Creating a Repository:

- Creating a repository for multiple people to work together.

## Repository:

- A repository (usually abbreviated to "repo") is a location where all the files of a particular project are stored.
- Each project has its own repo and you can access it with a unique URL.

# Creating a Repository

Owner                          Repository name

PUBLIC  AnotherGeek ▾ / HowToGeek 

Great repository names are short and memorable. Need inspiration? How about [mustached-octo-batman](#).

Description (optional)

HowToGeek program

---

 **Public**  
Anyone can see this repository. You choose who can commit.

 **Private**  
You choose who can see and commit to this repository.

---

**Initialize this repository with a README**  
This will allow you to `git clone` the repository immediately. Skip this step if you have already run `git init` locally.

Add .gitignore: **None** ▾ | Add a license: **None** ▾ 

---

**Create repository**

# Creating a Branch

- Create a branch in your project, for an environment where you can try out new ideas.
- Changes you make on a branch don't affect the master unless pull request is accepted.
- Changes committed to branch reflects for you to keep track of different versions.

# Adding Commits

- Keep track of your progress as you work on a branch or master.
- Creates a transparent history that others can follow to understand what you've done and why.

# Pull Request

- Pull requests initiates discussion about your commits or changes made to a code.
- See Exactly what changes would be merged if pull request is accepted.
- use Github's mention system in your pull request message to ask for feedback from specific people or teams, or for someone to review your work.

## CREATE A BRANCH

- Add Commits
- Compare
- Sync & push to branch

## OPEN A PULL REQUEST

- Discuss & review
- Add/resolve issues
- mention individual
- close pull request

## MERGE & DEPLOY

- Merge all the changes
- Master branch
- Deploy code

## **Examples:-**

Git is a popular product in the Version Control category and 1,800+ companies on Siftery have verified that they are using the software.

Here is a quick list of some of the high profile customers using Git:

Microsoft, Amazon, LinkedIn, Cisco, IBM, Intuit, Accenture, Facebook, Rackspace, Yahoo, Apple, T-Mobile, Zendesk, Autodesk, Lenovo, Opendoor, and many others.

# Thank you!

To know more about GITHUB visit their official website

<https://github.com>