

GIT

What is Git?

Git was created by Linus Torvalds in 2005 to develop Linux Kernel. It is also used as an important distributed version-control tool for the DevOps

Git is a modern and widely used **distributed version control system** in the world.

It is developed to manage projects with high speed and efficiency.

The version control system allows us to monitor and work together with our team members at the same workspace.

It is designed to handle minor to major projects with high speed and efficiency.

It is developed to co-ordinate the work among the developers.

The version control allows us to track and work together with our team members at the same workspace.

Git is foundation of many services like GitHub and GitLab, but we can use Git without using any other Git services. Git can be used privately and publicly.

DOWNLOAD: <https://git-scm.com/downloads>

GIT HUB

GitHub is an open-source repository hosting service, sort of like a **cloud for code**.

It hosts your source code projects in a variety of different programming languages and keeps track of the various changes made to every iteration.

Other GitHub users can review your code and propose changes.

What Is GitHub?

GitHub is a hosting site where developers and programmers can upload the code they create and work collaboratively to improve it.

A defining feature of GitHub is its robust **version control system**.

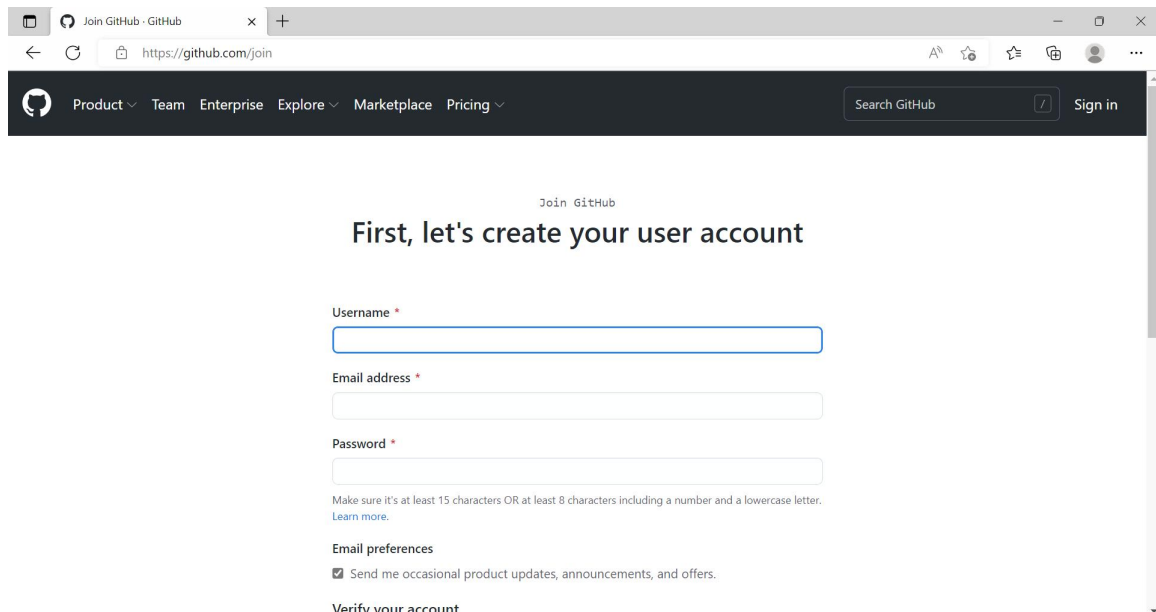
The version control lets coders tweak software — potentially fixing bugs or improving efficiency — without affecting the software itself or risking the experience of any current users.

Proposed changes can be easily merged into the live software after the proposals are reviewed and approved.

benefits of using GitHub?

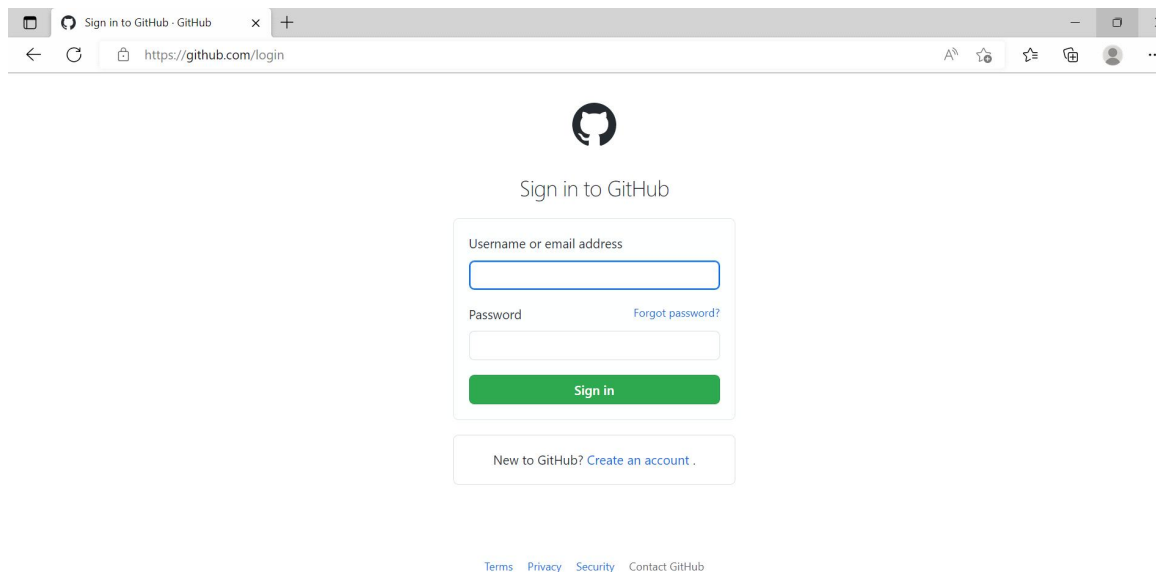
1. It makes it easy to contribute to your open source projects
2. Documentation
3. Showcase your work
4. GitHub is a repository

Sign up to Git Hub



The screenshot shows the GitHub sign-up page in a web browser. The browser's address bar displays 'https://github.com/join'. The page features a dark navigation bar at the top with links for 'Product', 'Team', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. A search bar and a 'Sign in' button are also present. The main content area is titled 'Join GitHub' and 'First, let's create your user account'. It contains three input fields for 'Username', 'Email address', and 'Password', each with a red asterisk indicating a required field. Below the password field, a note states: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)'. There is a checkbox for 'Email preferences' with the text 'Send me occasional product updates, announcements, and offers.' and a 'Verify your account' link at the bottom.

Sign in to Git hub



The screenshot shows the GitHub sign-in page in a web browser. The browser's address bar displays 'https://github.com/login'. The page features the GitHub logo at the top, followed by the text 'Sign in to GitHub'. Below this is a form with two input fields: 'Username or email address' and 'Password'. A link for 'Forgot password?' is located next to the password field. A green 'Sign in' button is positioned below the password field. At the bottom of the form, there is a link that says 'New to GitHub? [Create an account.](#)'. The footer of the page includes links for 'Terms', 'Privacy', 'Security', and 'Contact GitHub'.

Git v/s Git hub

Git	Git hub
Git is a software.	GitHub is a service.
Git is a command-line tool	GitHub is a graphical user interface
Git is installed locally on the system	GitHub is hosted on the web
Git is maintained by linux.	GitHub is maintained by Microsoft.
Git is a version control system to manage source code history.	GitHub is a hosting service for Git repositories.
Git was first released in 2005.	GitHub was launched in 2008.
Git has no user management feature	GitHub has a built-in user management feature.
Git is open-source licensed	GitHub includes a free-tier and pay-for-use tier.
Git has minimal external tool configuration.	GitHub has an active marketplace for tool integration.
Git provides a Desktop interface named Git Gui.	GitHub provides a Desktop interface named GitHub Desktop.
Git competes with CVS, Azure DevOps Server, Subversion, Mercurial, etc.	GitHub competes with GitLab, Git Bucket, AWS Code Commit, etc.
Git is focused on version control and code sharing.	GitHub is focused on centralized source code hosting.

Steps to push a project file

->git status

->git init

->git status

->git add .

->git status

->git commit -m "message"

->git config --global user.email "you@example.com"

->git config --global user.name "Your Name"

->git commit -m "message"

-----go_to_git_hub_page-----create_a_repository-----copy_6th
command-----

->git remote add origin https://github.com/email/ns_portfolio.git

-----paste-----

->git push origin master