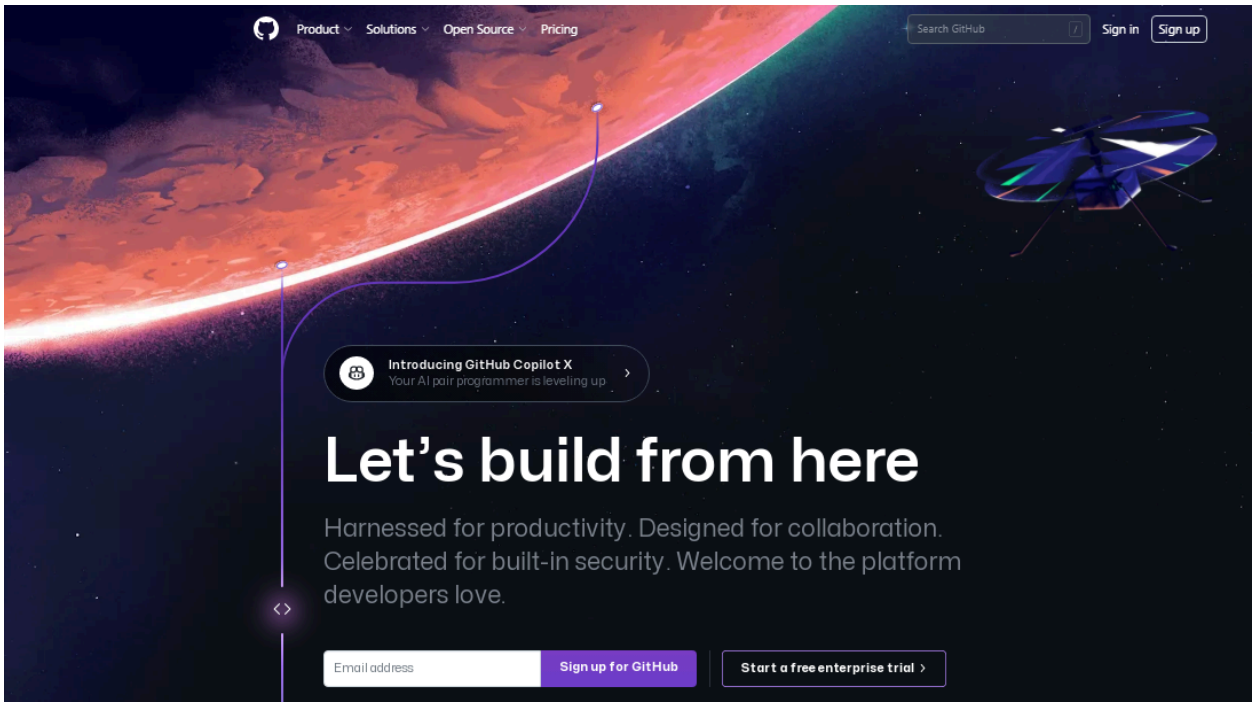
GitHub



github.com

Description

GitHub, Inc. is an Internet hosting service for software development and version control using Git. It provides distributed version control access, bug tracking, software feature requests, task management, and continuous integration for every project.

Wikipedia

Parent organization: Microsoft Corporation

CEO: Thomas Dohmke (15 Nov 2021–)

Founders: Tom Preston-Werner, Chris Wanstrath, P. J. Hyett, Scott Chacon

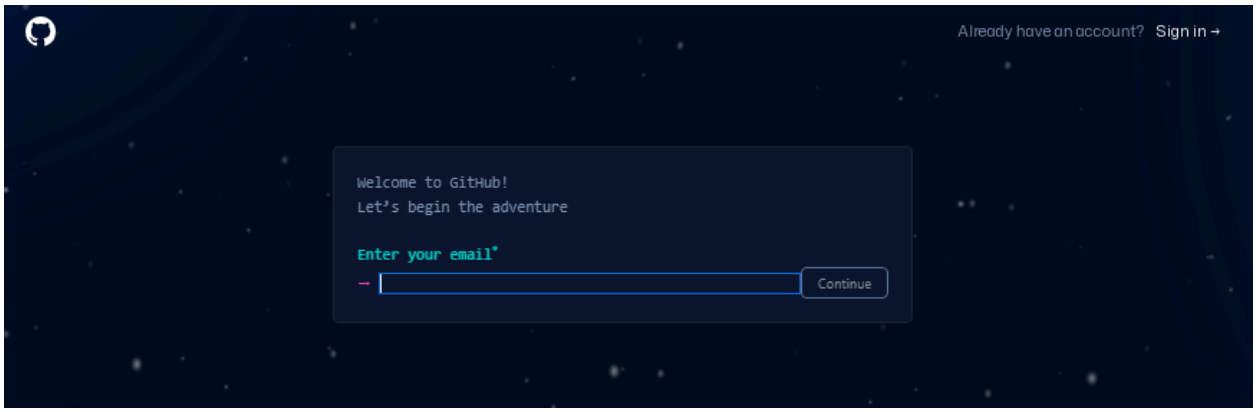
Founded: 2008

Headquarters: San Francisco, California, United States

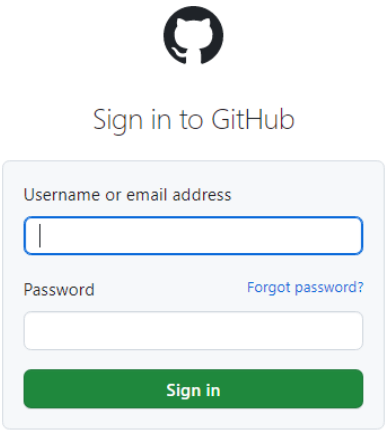
What is a Version Control System?

The Git version control system, as the name suggests, is a system that records all the modifications made to a file or set of data so that a specific version may be called up later if needed. The system makes sure that all the team members are working on the file's latest version, and everyone can work simultaneously on the same project.

Sign up -



After sign up - login to github



Git Bash -

To run git commands, we first need to install git bash.

https://git-scm.com/downloads

Git commands -

> create your git account from github.com

> First install git bash.

> go to your code root folder , where you have your package.json file.

> **git init**

> create a .gitignore file and add node_modules like below.

/node_modules

> **git add .** (adding all new or modified files also known as staging)

> **git commit -m "commit message here"** (commit your files to master branch)

Now create a new repo in your github.

> **git remote add origin your_repo_url**

> **git push -u origin master**

========== Take Latest ==========

> **git pull origin** (take latest before start work)

> **git status** (check modified files)

> **git diff** (show diff)

========== Stashing your changes ==========

> **git stash**

```
> git stash apply

============================================================

------------------------------------------------------------

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git remote -v

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git remote add origin
https://github.com/sandeepkrgupt/TodoApp.git



BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git remote -v

origin  https://github.com/sandeepkrgupt/TodoApp.git (fetch)

origin  https://github.com/sandeepkrgupt/TodoApp.git (push)

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git add .

warning: LF will be replaced by CRLF in package-lock.json.
```

```
The file will have its original line endings in your working
directory

warning: LF will be replaced by CRLF in package.json.

The file will have its original line endings in your working
directory

warning: LF will be replaced by CRLF in src/App.js.

The file will have its original line endings in your working
directory

warning: LF will be replaced by CRLF in src/index.js.

The file will have its original line endings in your working
directory



BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git status

On branch master

Changes to be committed:

  (use "git restore --staged <file>..." to unstage)
```

```
        modified:   package-lock.json

        modified:   package.json

        modified:   src/App.js

        new file:   src/component/TodoApp.js

        new file:   src/component/todo.css

        modified:   src/index.js

        new file:   src/redux/actions.js

        new file:   src/redux/reducer.js

        new file:   src/reduxStore.js

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git commit -m "committing All TOdo App Files"

[master a77b182] committing All TOdo App Files

 9 files changed, 354 insertions(+), 43 deletions(-)

 BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git push -u origin master
```

```
Enumerating objects: 36, done.

Counting objects: 100% (36/36), done.

Delta compression using up to 4 threads

Compressing objects: 100% (36/36), done.

Writing objects: 100% (36/36), 315.37 KiB | 2.63 MiB/s, done.

Total 36 (delta 5), reused 0 (delta 0), pack-reused 0

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

$ git push origin master

Everything up-to-date

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)
```

RSA Token

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

$ **git pull**

```
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 625 bytes | 4.00 KiB/s, done.
From https://github.com/sandeepkrgupt/TodoApp
 * [new branch]      main       -> origin/main
Already up to date.
BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)
```

$ **git branch**

```
* master
BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)
```

$ **ssh-keygen**

```
Generating public/private rsa key pair.

Enter file in which to save the key
(/c/Users/BUDHA/.ssh/id_rsa):

Created directory '/c/Users/BUDHA/.ssh'.

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /c/Users/BUDHA/.ssh/id_rsa

Your public key has been saved in /c/Users/BUDHA/.ssh/id_rsa.pub

The key fingerprint is:

SHA256:hxTcgeqPV2YqO+kOR8KMC0SOKv7WUf0VykPll4PKwv0
BUDHA@BUDHA-PC
```

Create New Branch From Master and push files -

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog (master)
```

$ git checkout -b sandeep_figma_proj

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog (master)
```

$ git branch

```
* master
  sandeep_figma_assignment
  sandeep_figma_proj
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog (master)
```

$ git status

```
        modified:   src/App.js
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog
(sandeep_figma_proj)
```

$ git add .

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog
(sandeep_figma_proj)
```

$ git commit -m "app js file"

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog
(sandeep_figma_proj)
```

$ git push origin sandeep_figma_proj