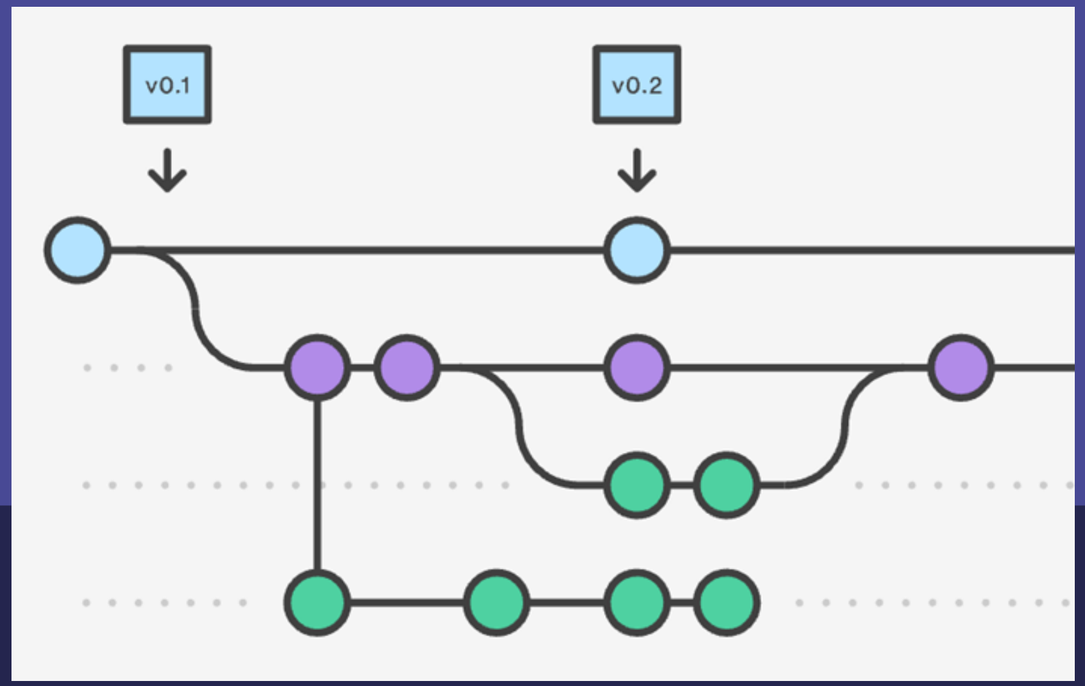
What is Git?

Source Control

- Source control, or version control, is a way of tracking your files progress over time.
- It is usually saved in a series of snapshots and branches, which you can move back and forth between.



What you can do

Source control allows you to:

- Distribute your file changes over time
- Prevent against data loss/damage by creating backup snapshots
- Manage complex project structures

About Git

- Git is a source control software, similar to many others out there.
- It follows all the same rules and concepts that any source control follows.

Why use Git?

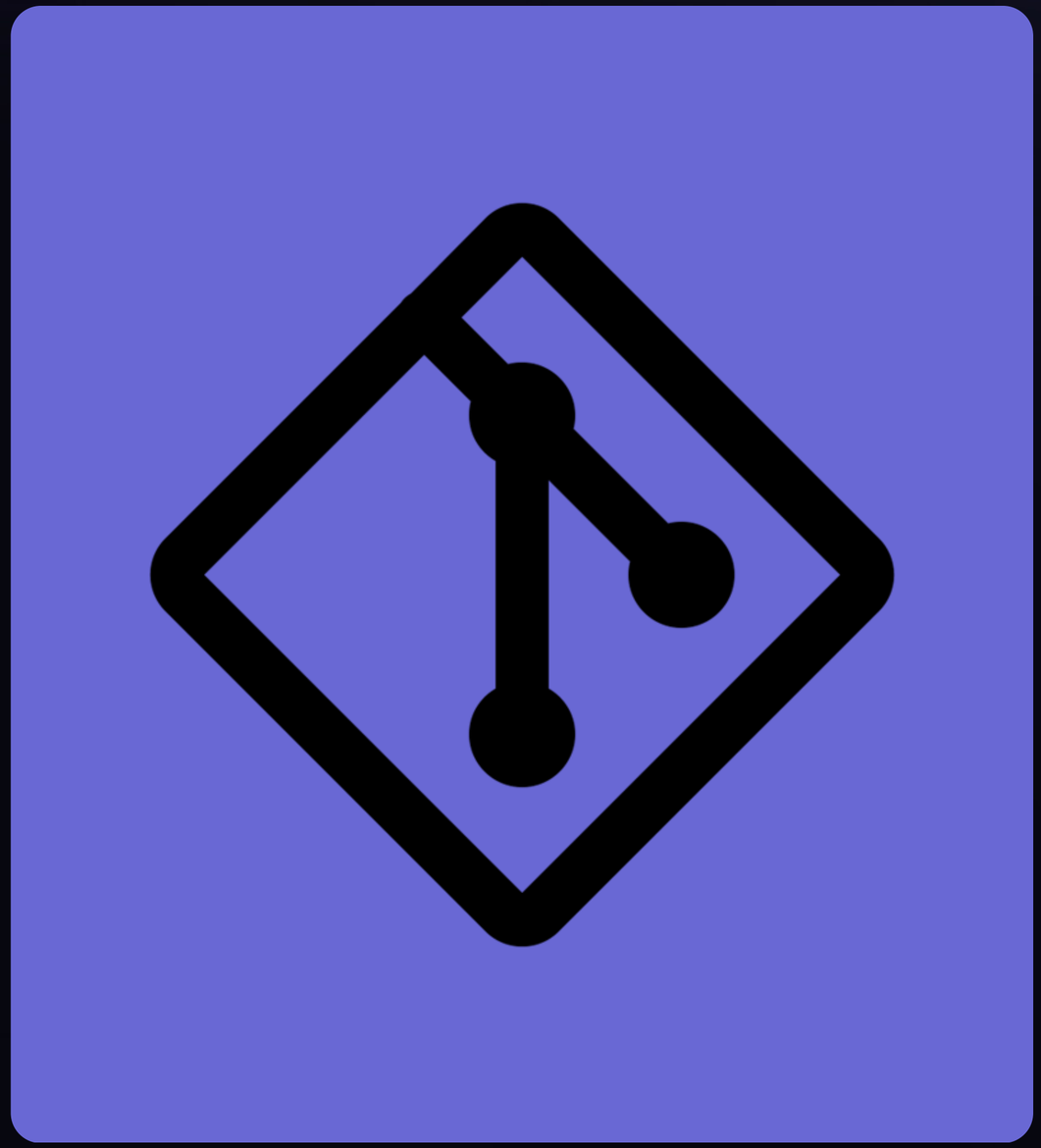
- The most popular source control software in the world

- Lots of documentation and support

- Lots of integration with other applications (SourceTree, Heroku, GitHub)

Summary

- Git is a source/version control software.
- It is the most popular source control software in the world.
- It has lots of integration with other programs, giving it lots of value and demand.



Git vs GitHub

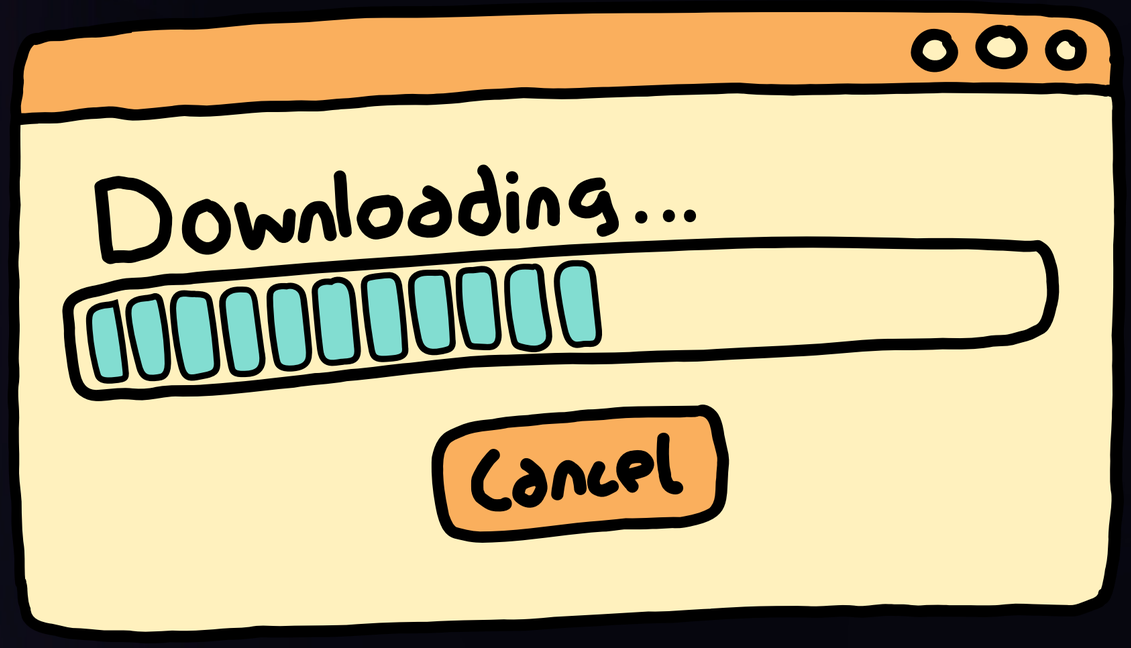
What GitHub Is

- GitHub is an application allowing you to store remote repositories. (it’s in the name!)
- You can interact with your GitHub repository through the push/pull system on your local machine.
- GitHub is used primarily to allow other people to add to the project (ex. Open source projects)
- GitHub allows more people than just yourself to see and interact with the repository.

The Difference

- Git is a source control software allowing you to take snapshots and distribute your creations & modifications over time.
- GitHub is an application allowing you to store and interact with your repository on a remote server, as well as adding more features (eg. Publicity, licensing, collaborators)
- Git is the bones and flesh of source control, while GitHub gives you the platform to work with your repository easier.

Installing Git

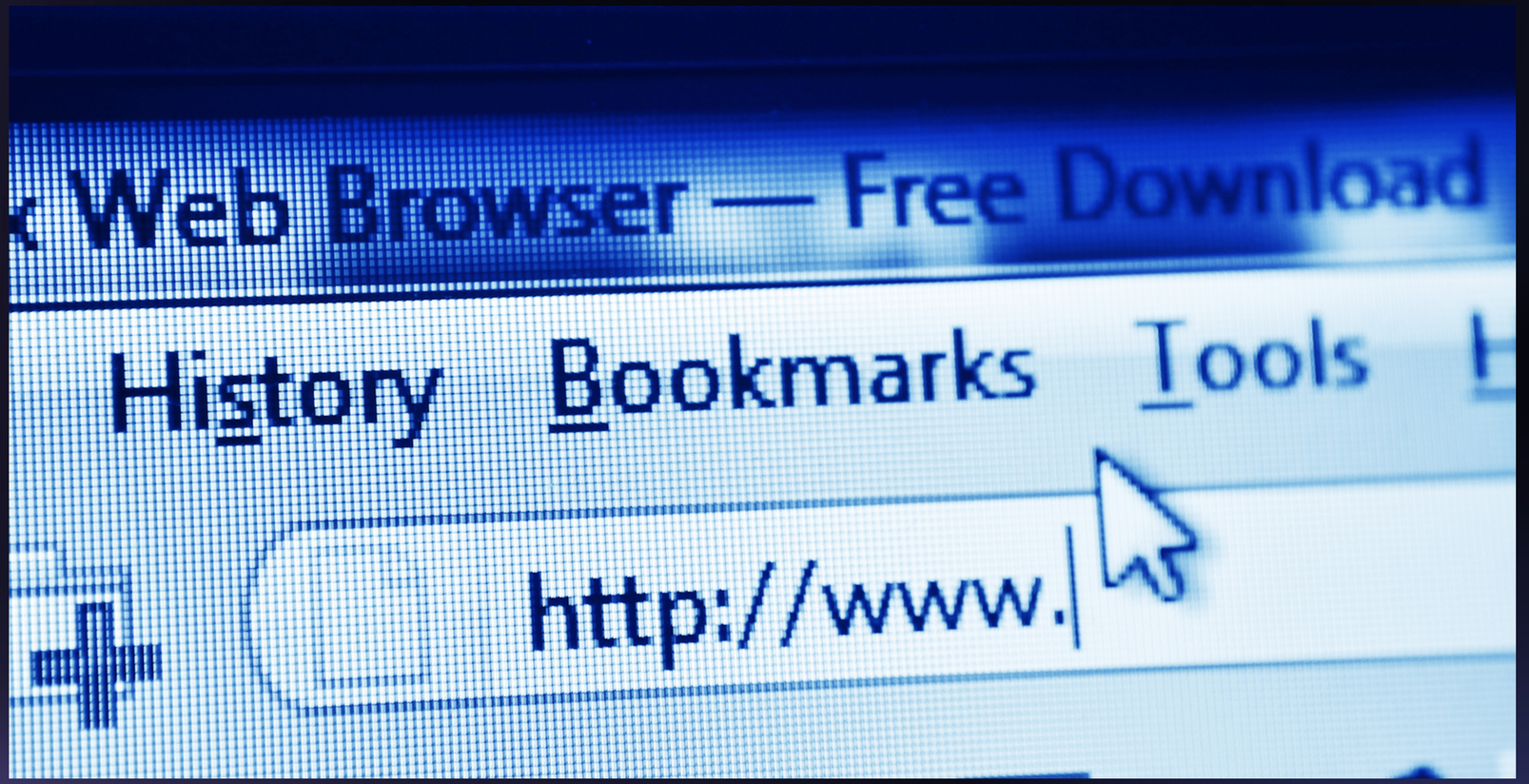


Installing Git

- open your web browser

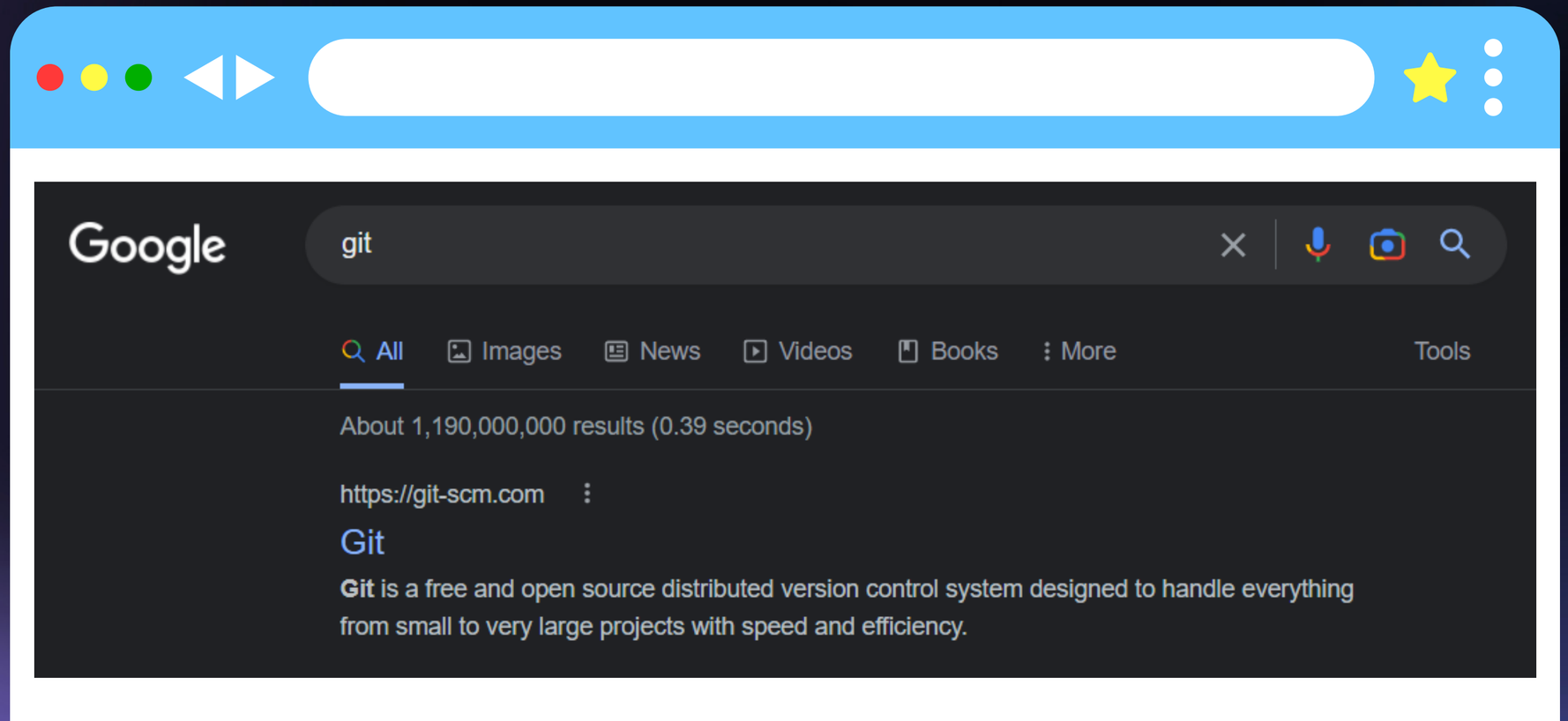
Installing Git

- search git



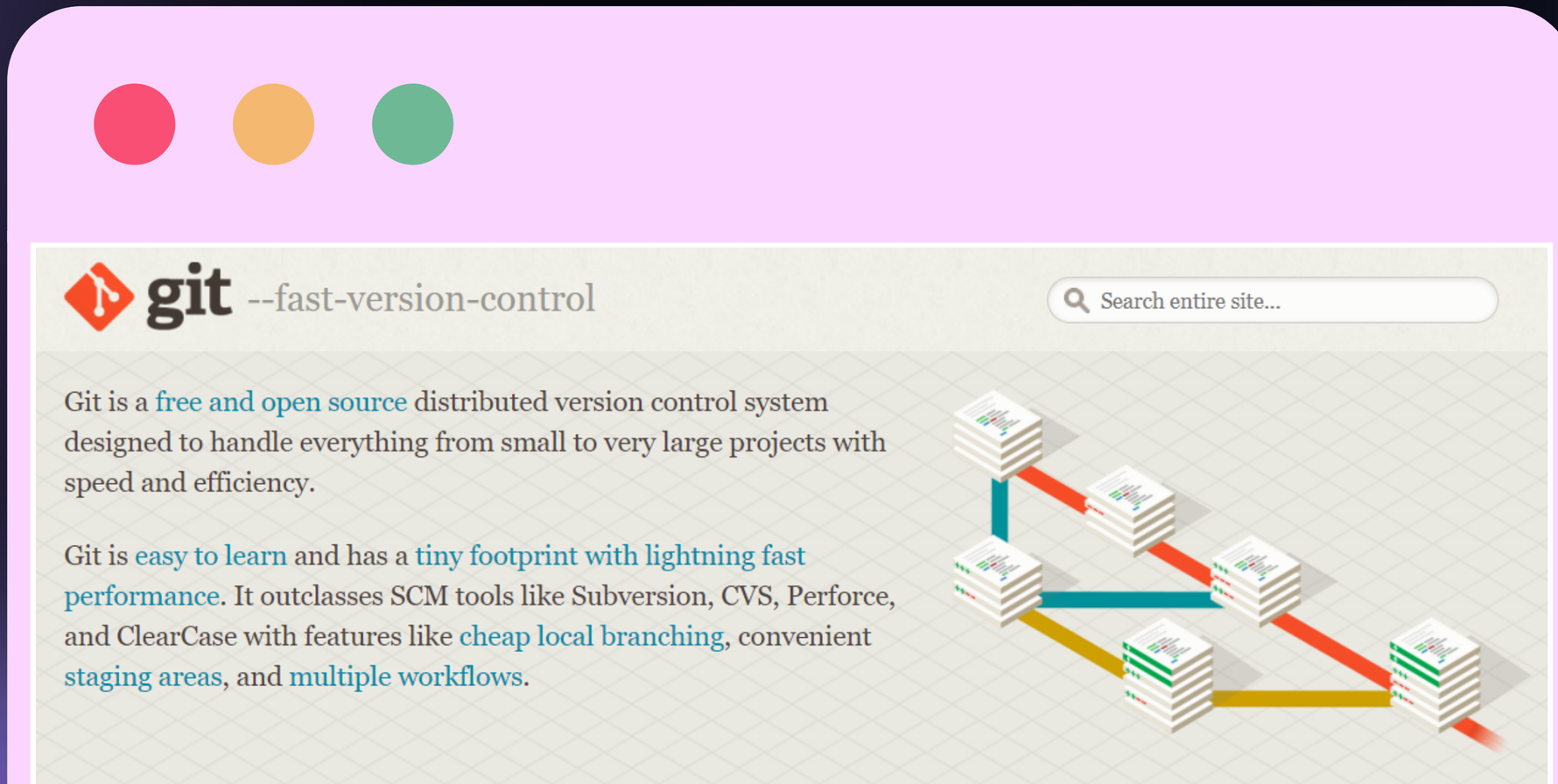
Installing Git

- go to the first search result



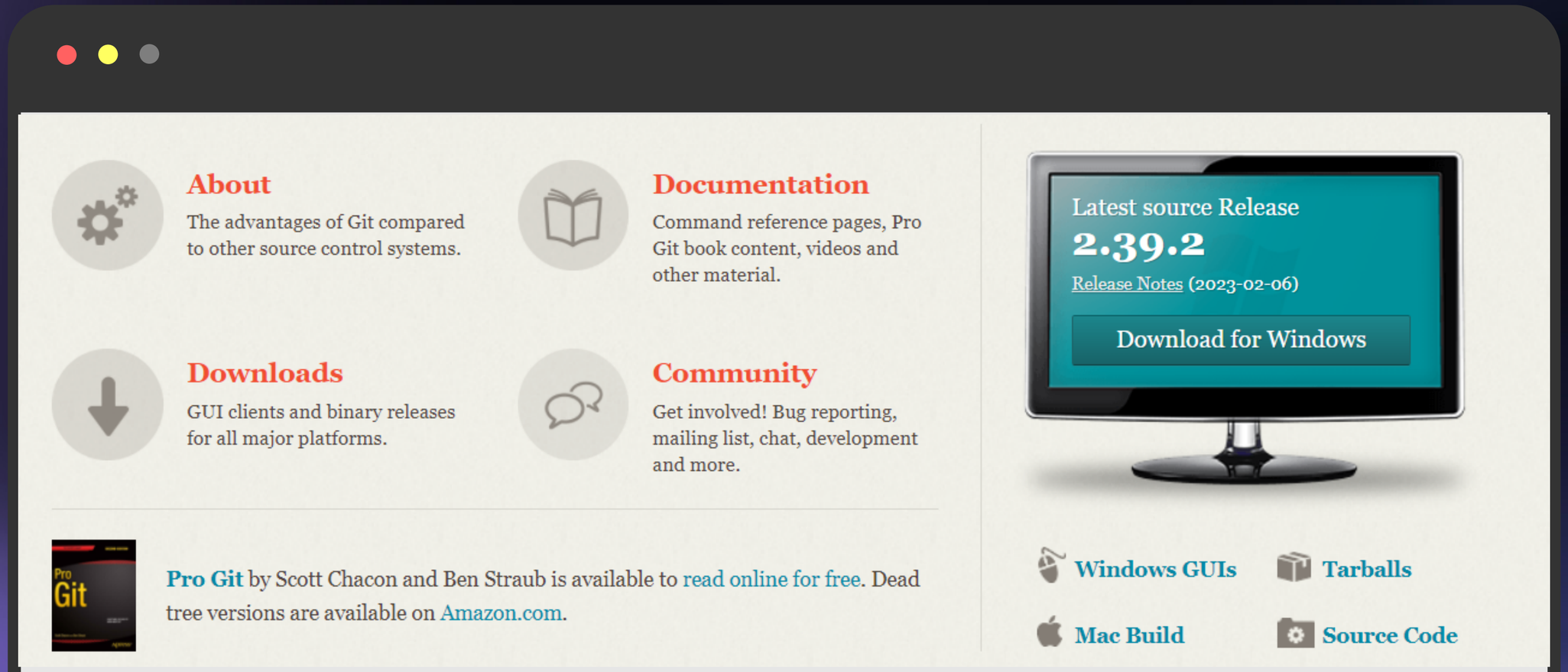
Installing Git

- now go to the inside of that web site https://git-scm.com/



Installing Git

- now scroll down and click on download button

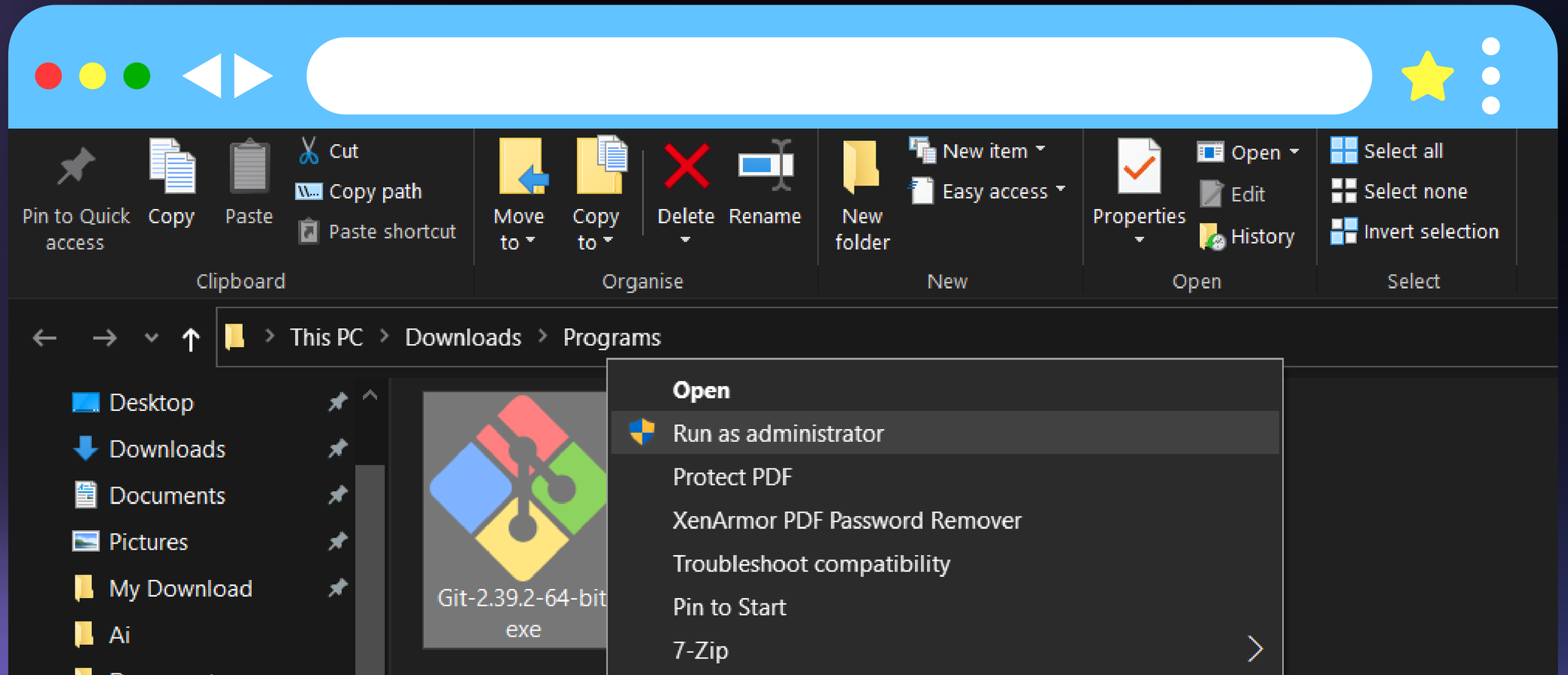


Installing Git

- select your OS and dowload git setup of your PC

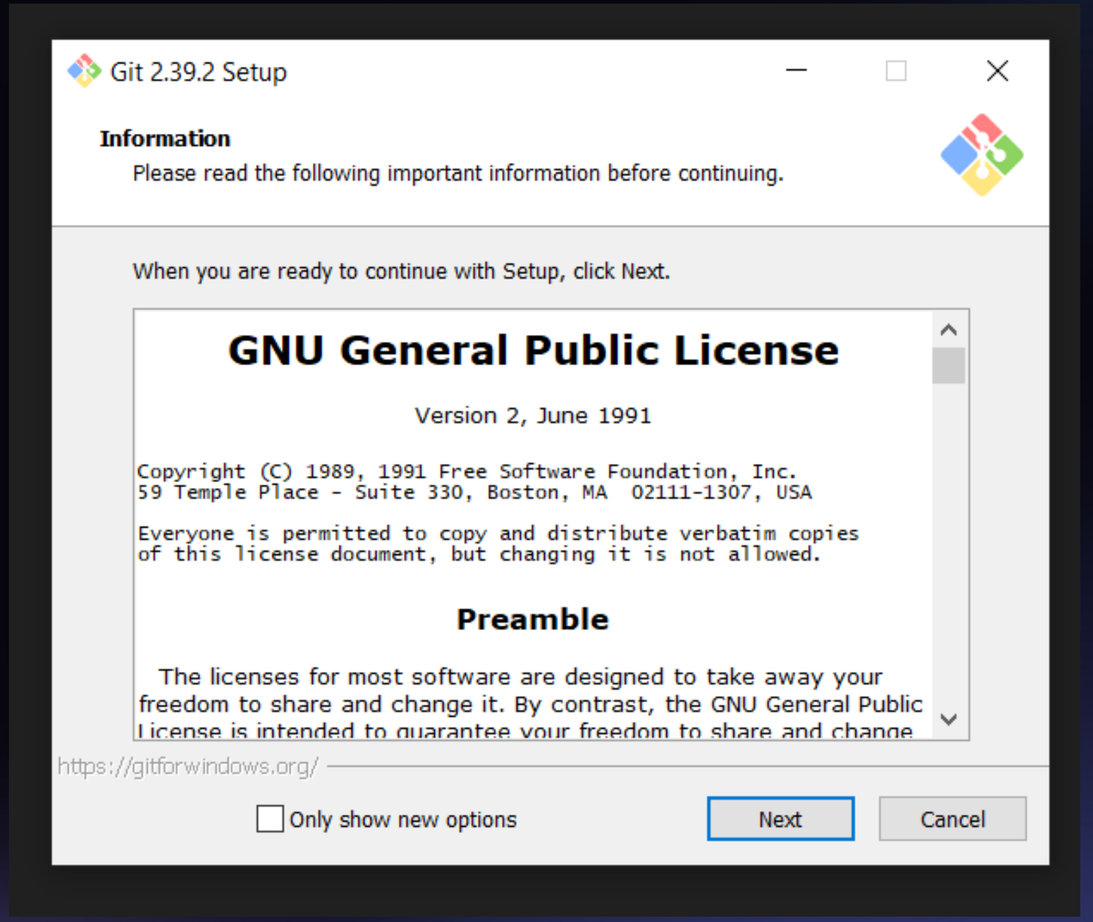
Installing Git

- after completed the downoading run setup as Administrator



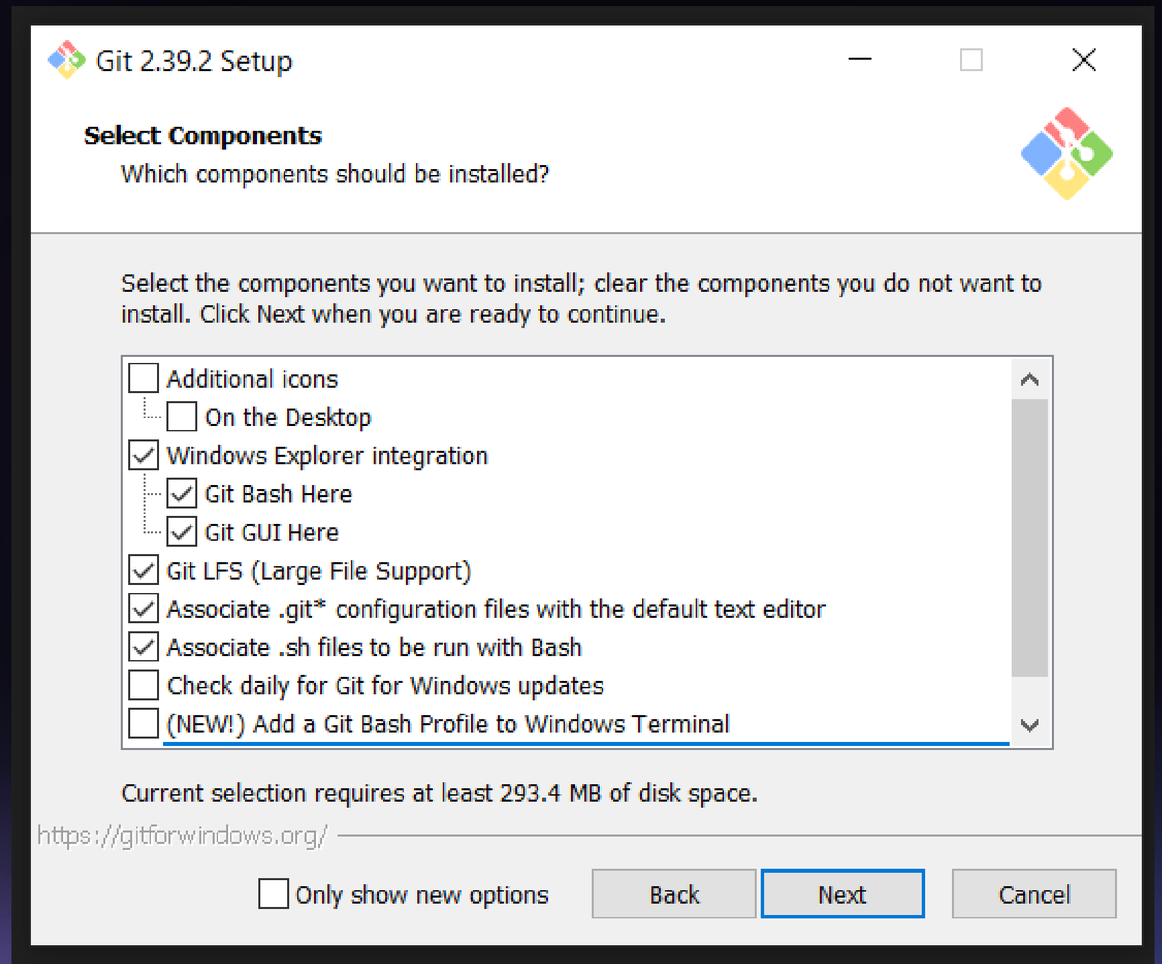
Installing Git

- in first window you can see the GNU General Public License details, click next button



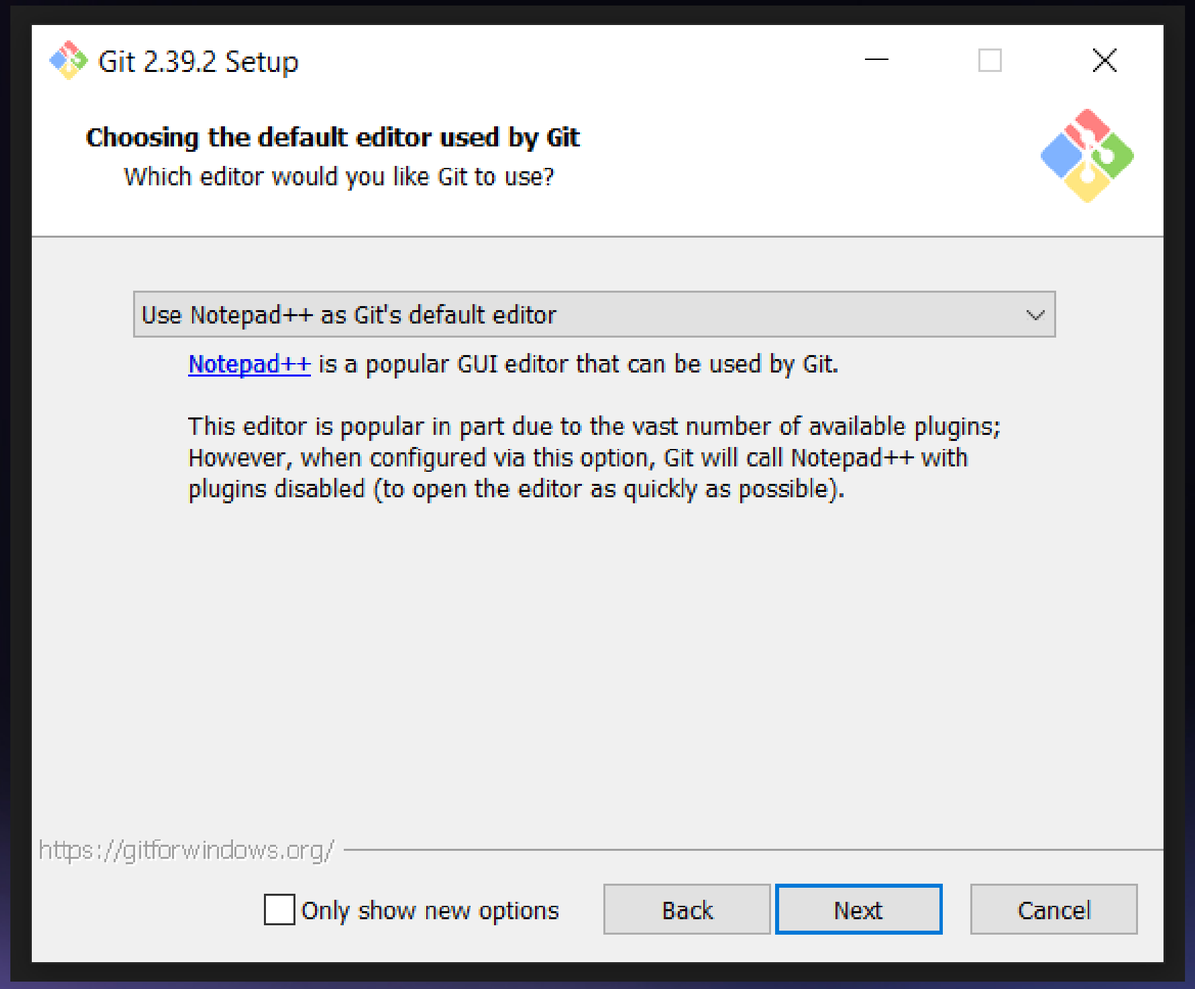
Installing Git

- select components what should be need to installed



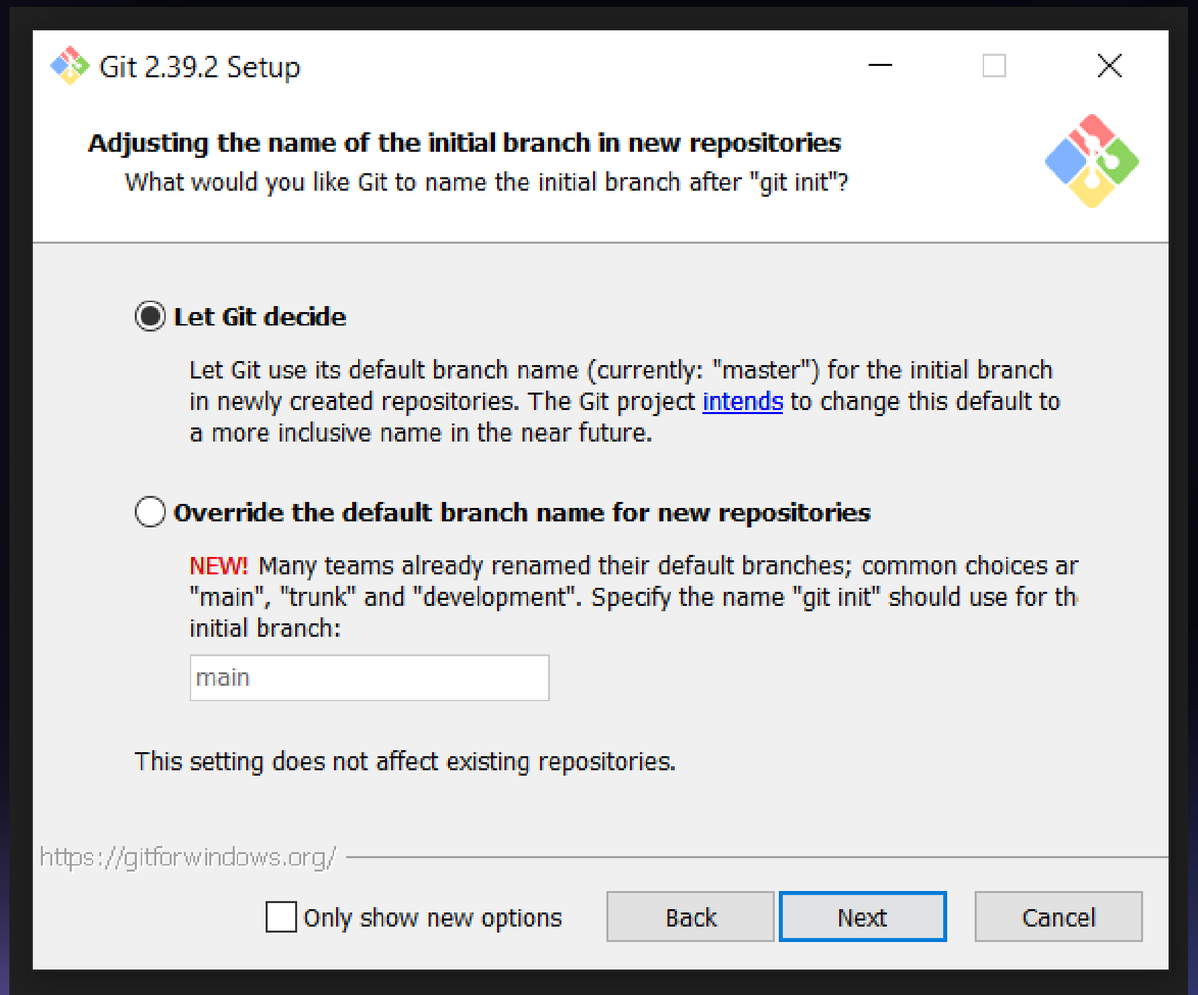
Installing Git

- select default editor for GIT



Installing Git

- No need to change simply click next



Installing Git

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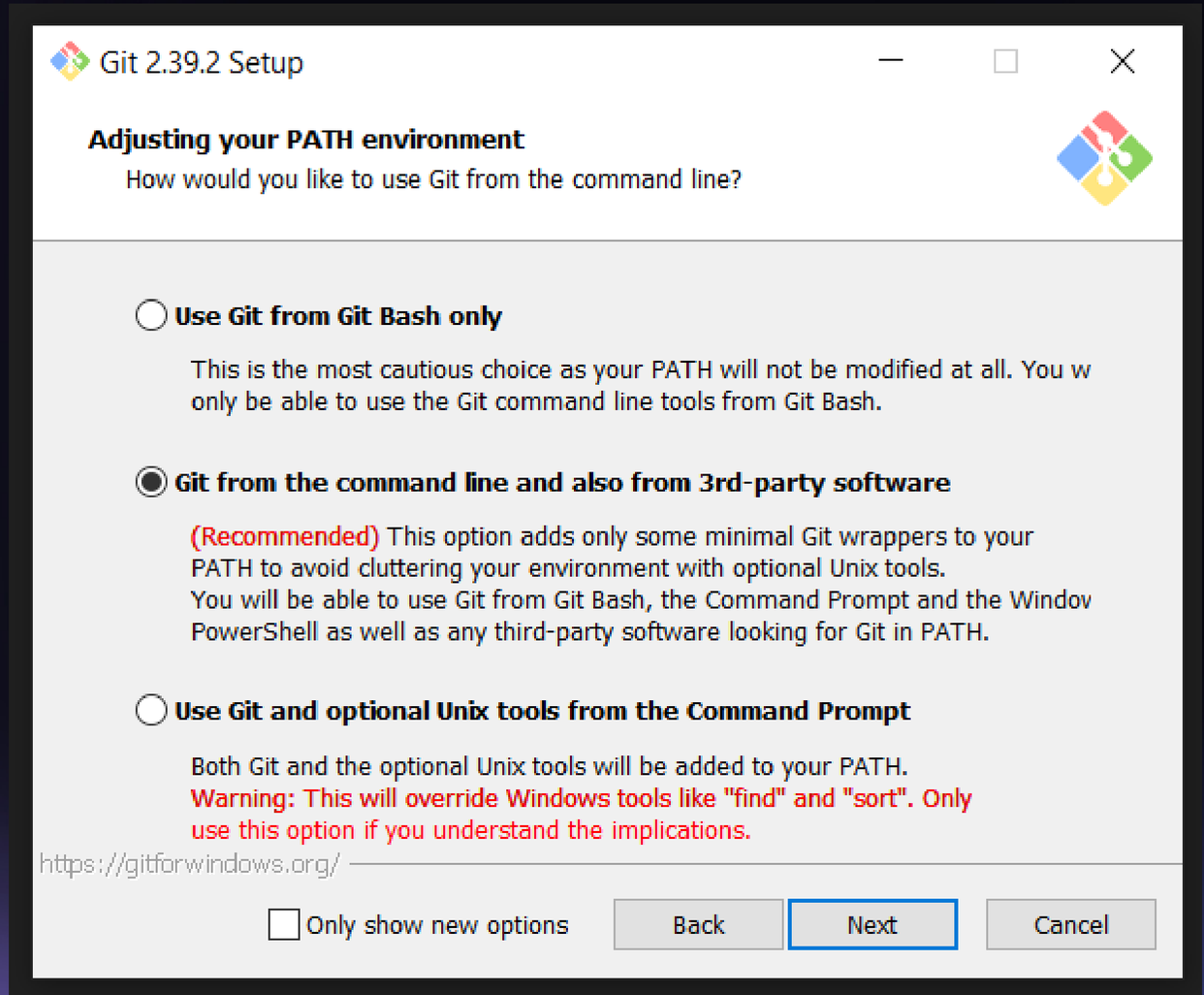

Installing Git

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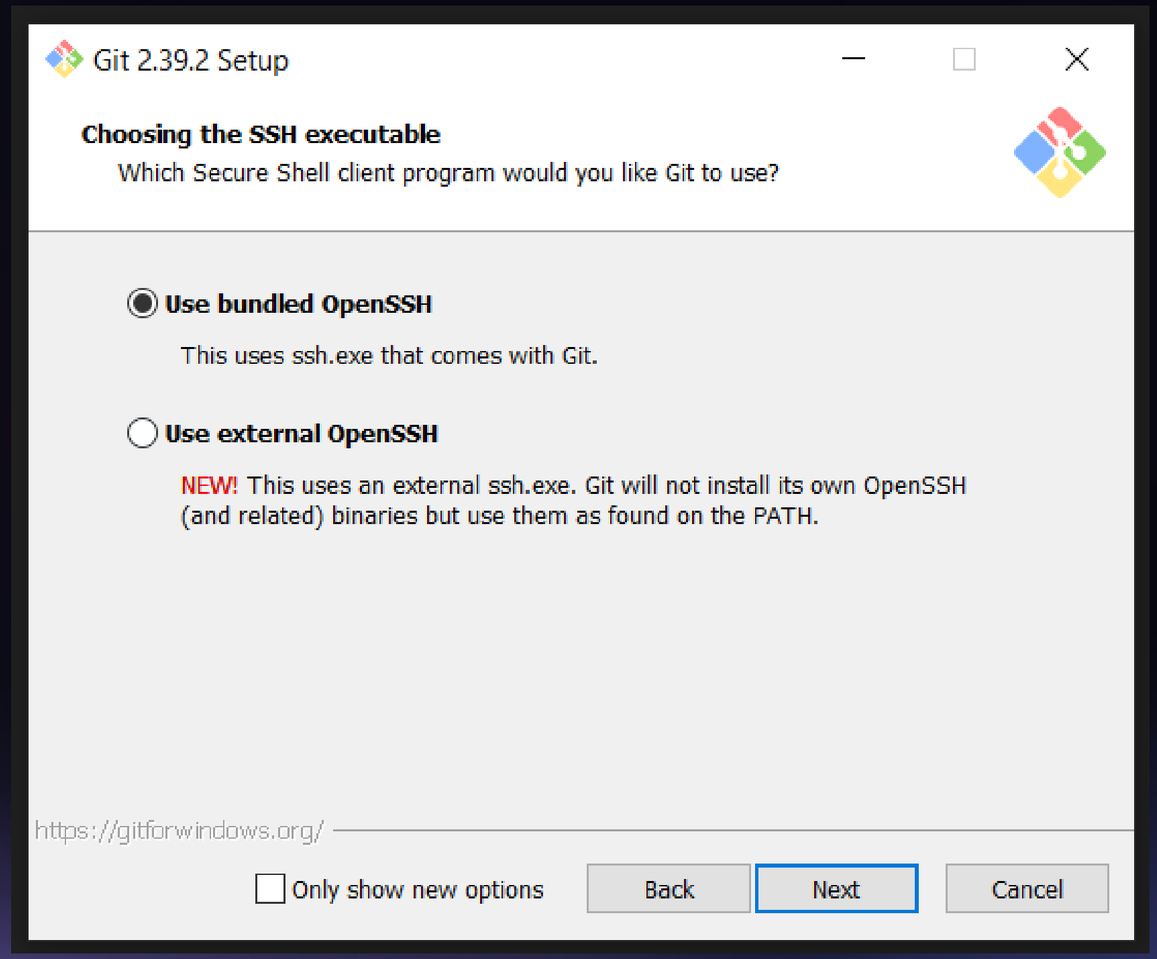

Installing Git

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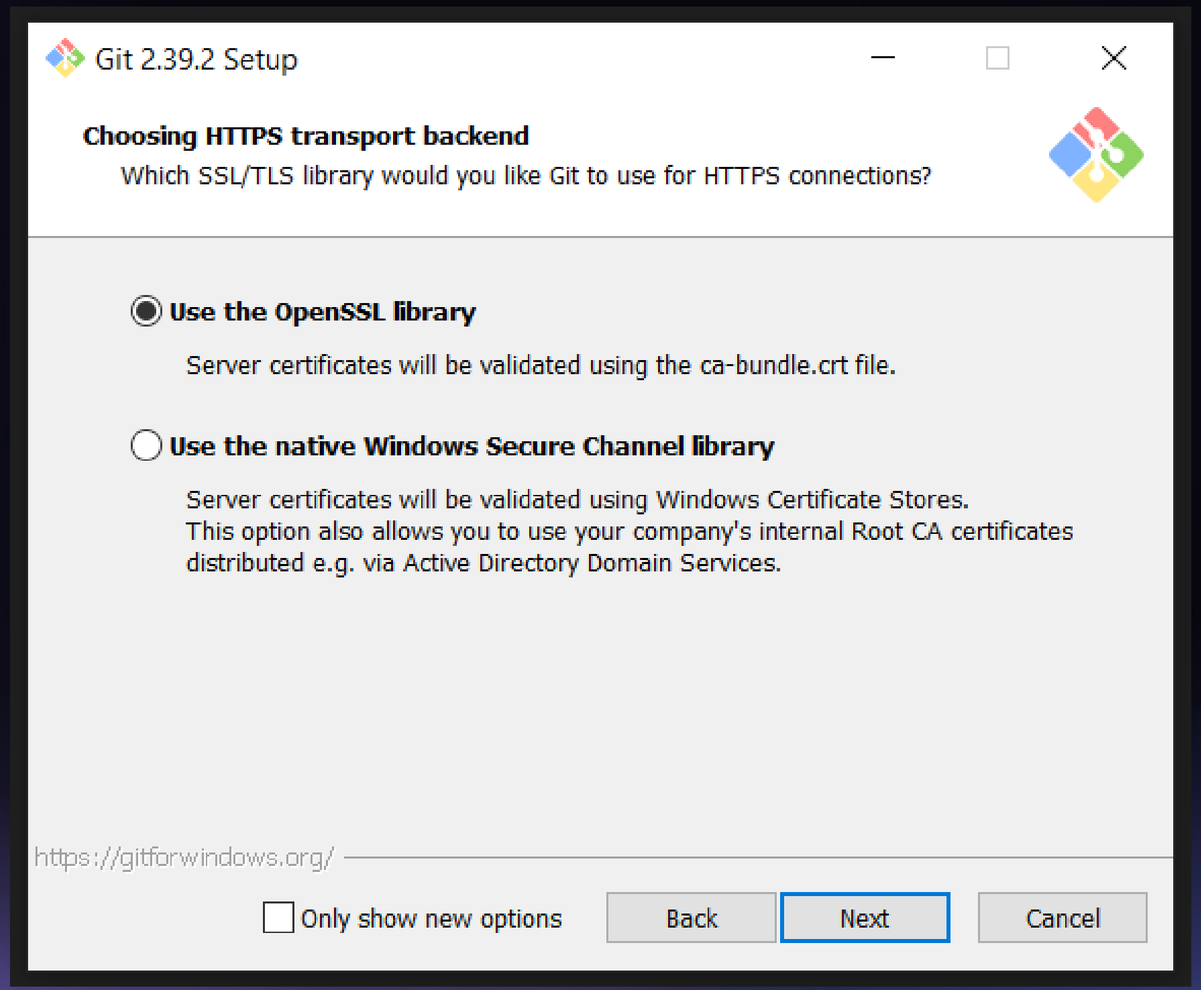

Installing Git

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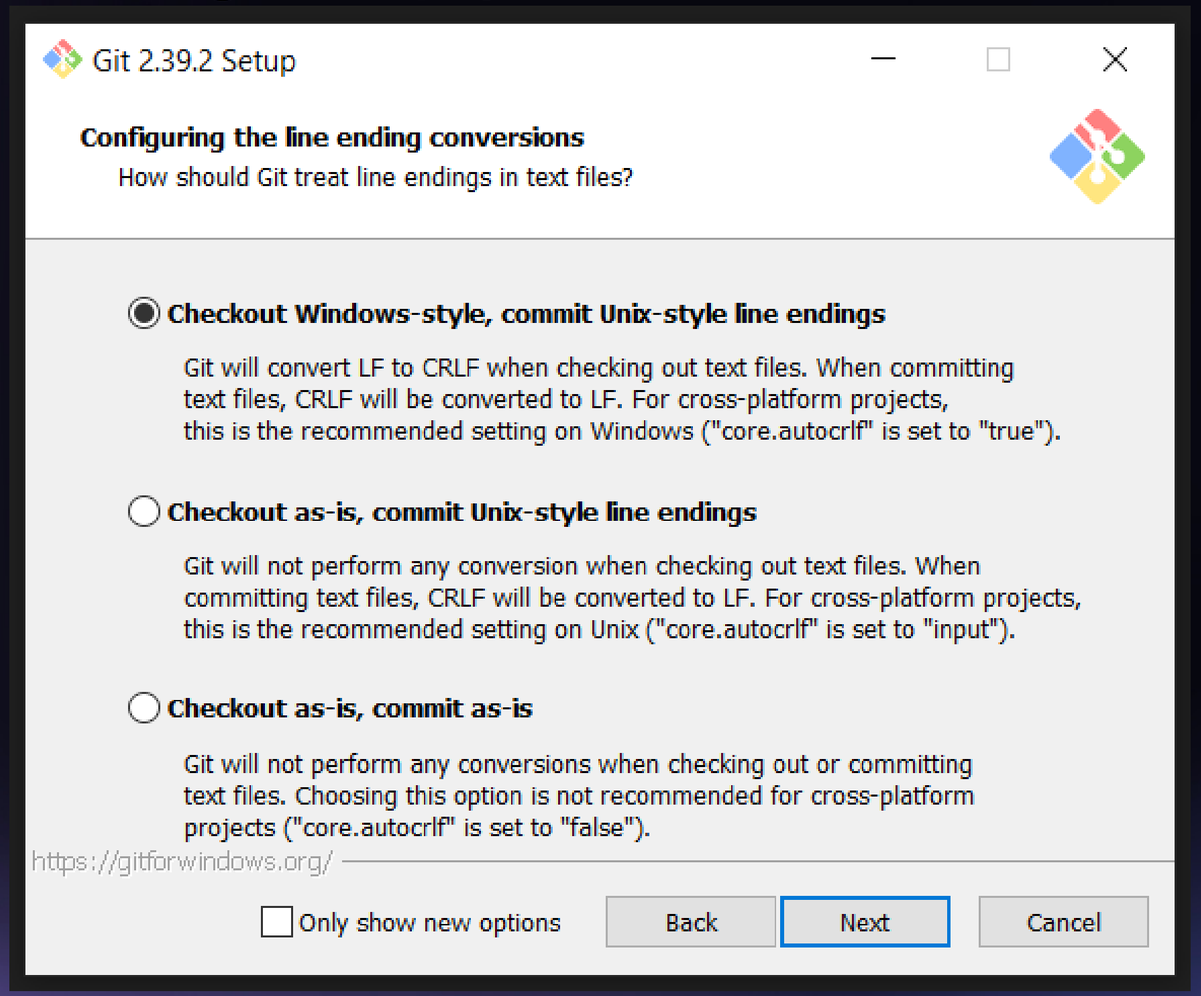

Installing Git

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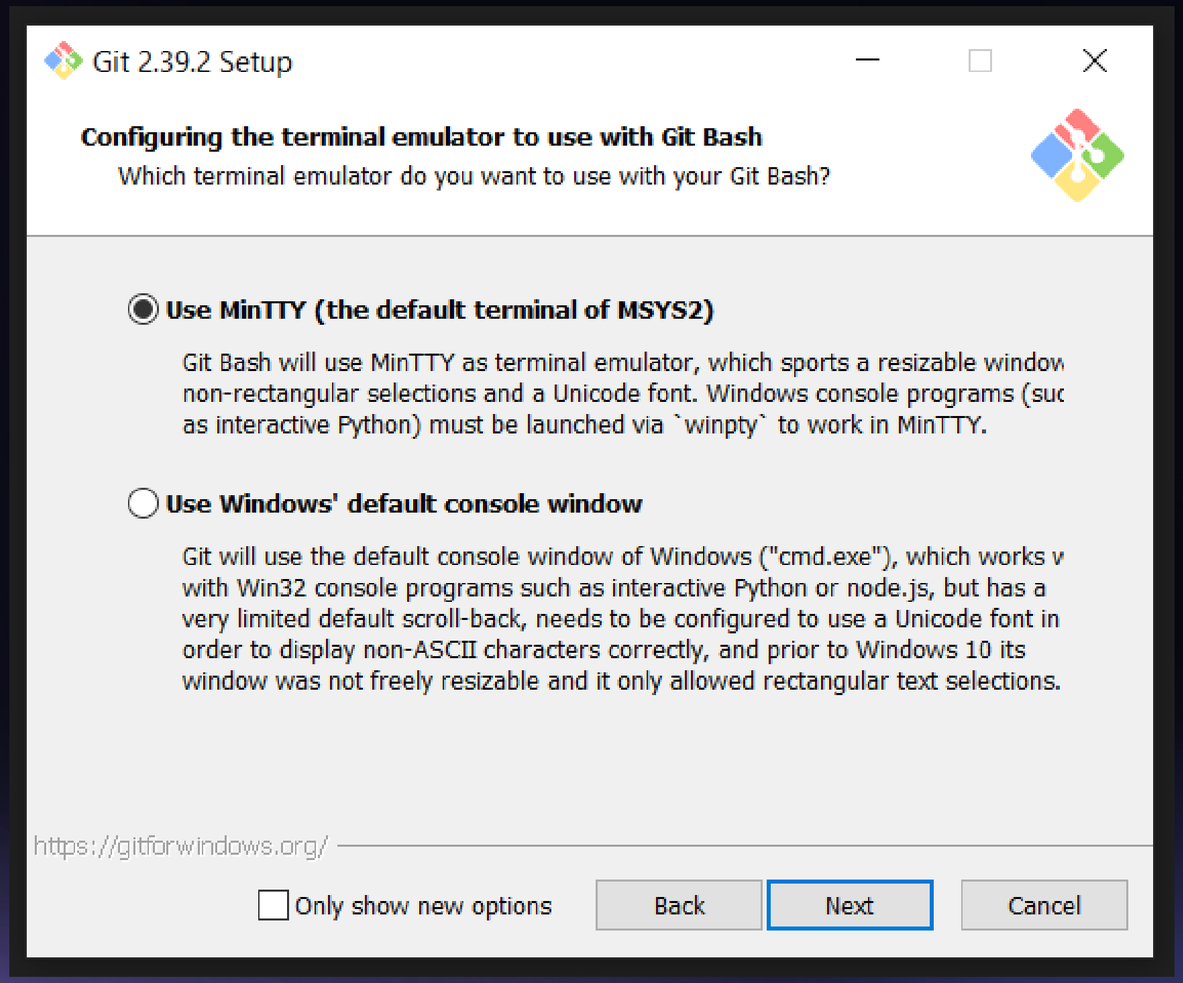

Installing Git

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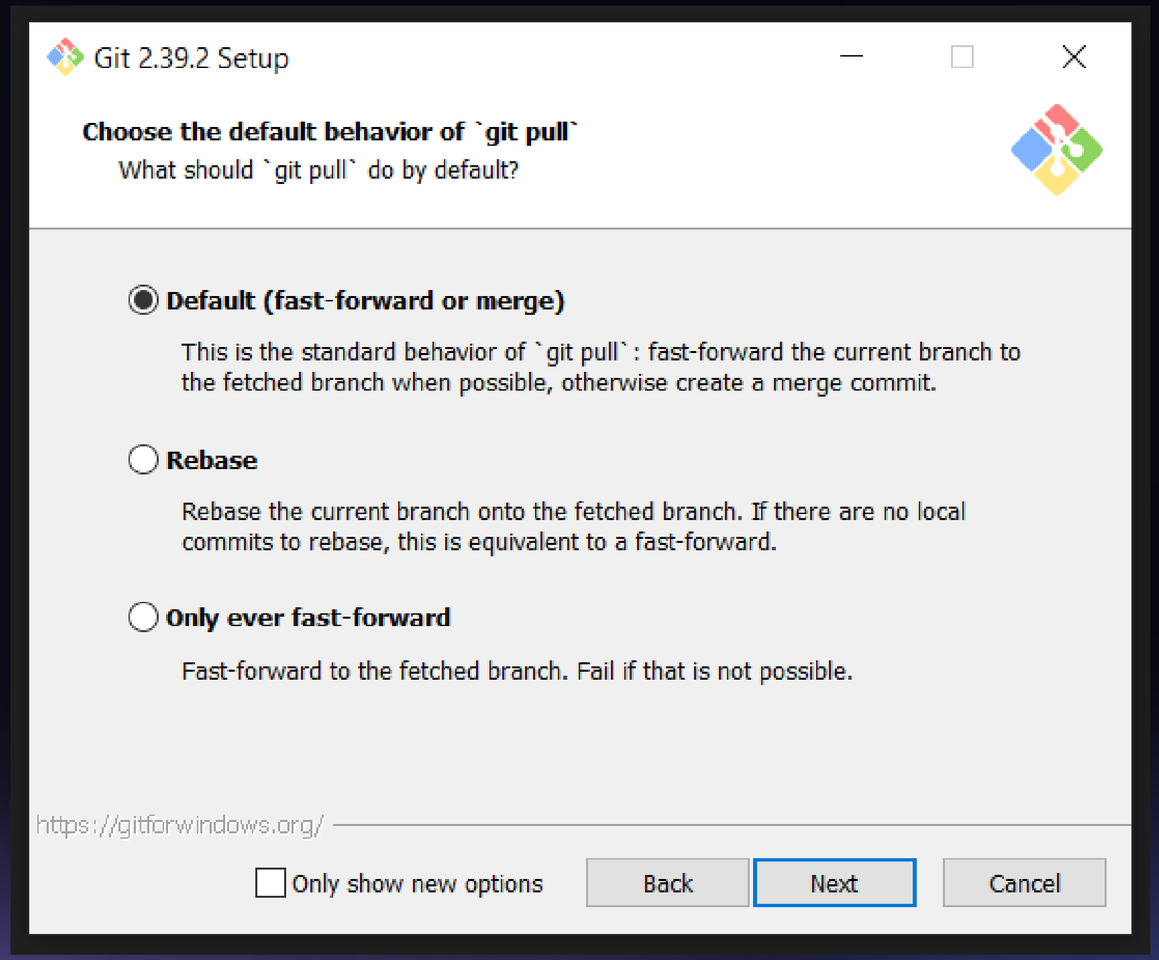

Installing Git

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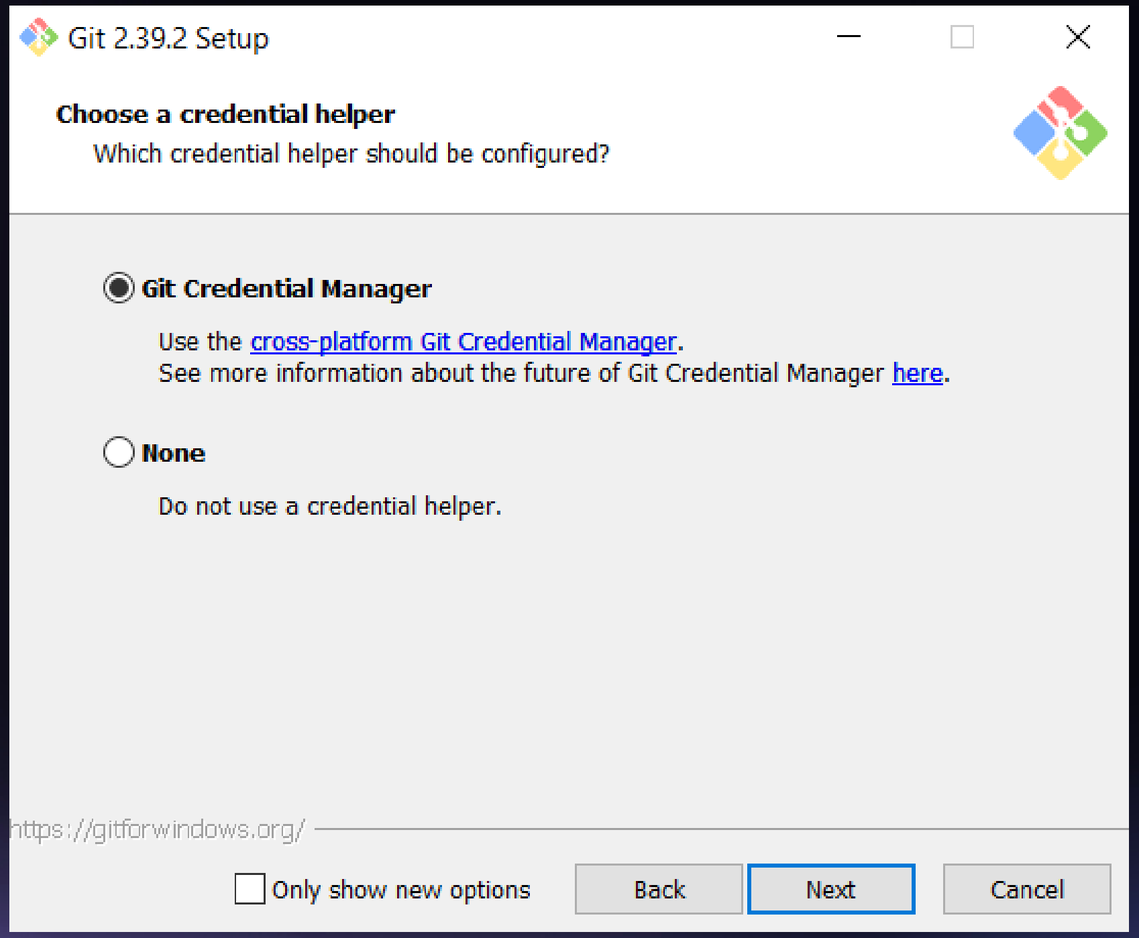

Installing Git

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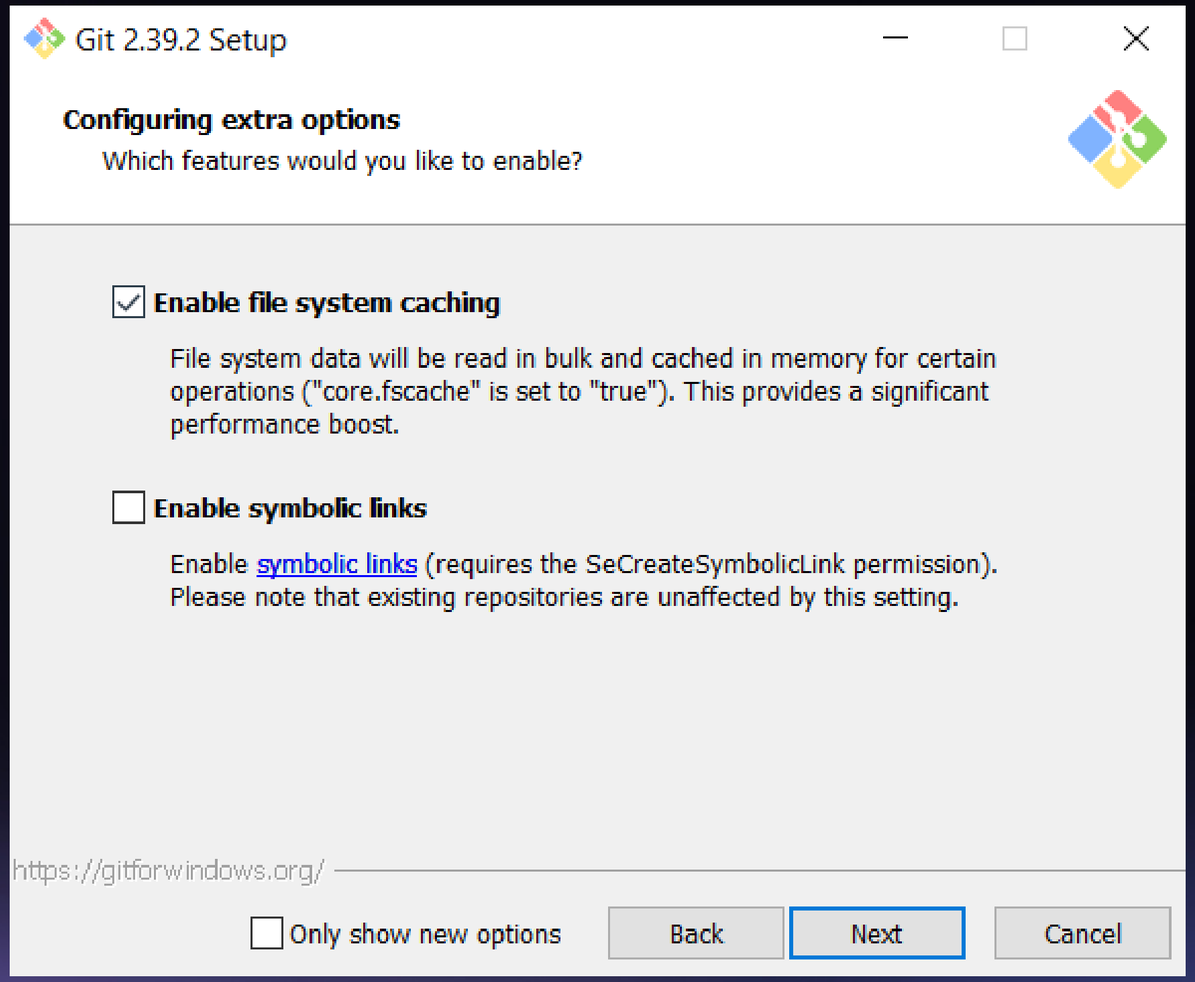

Installing Git

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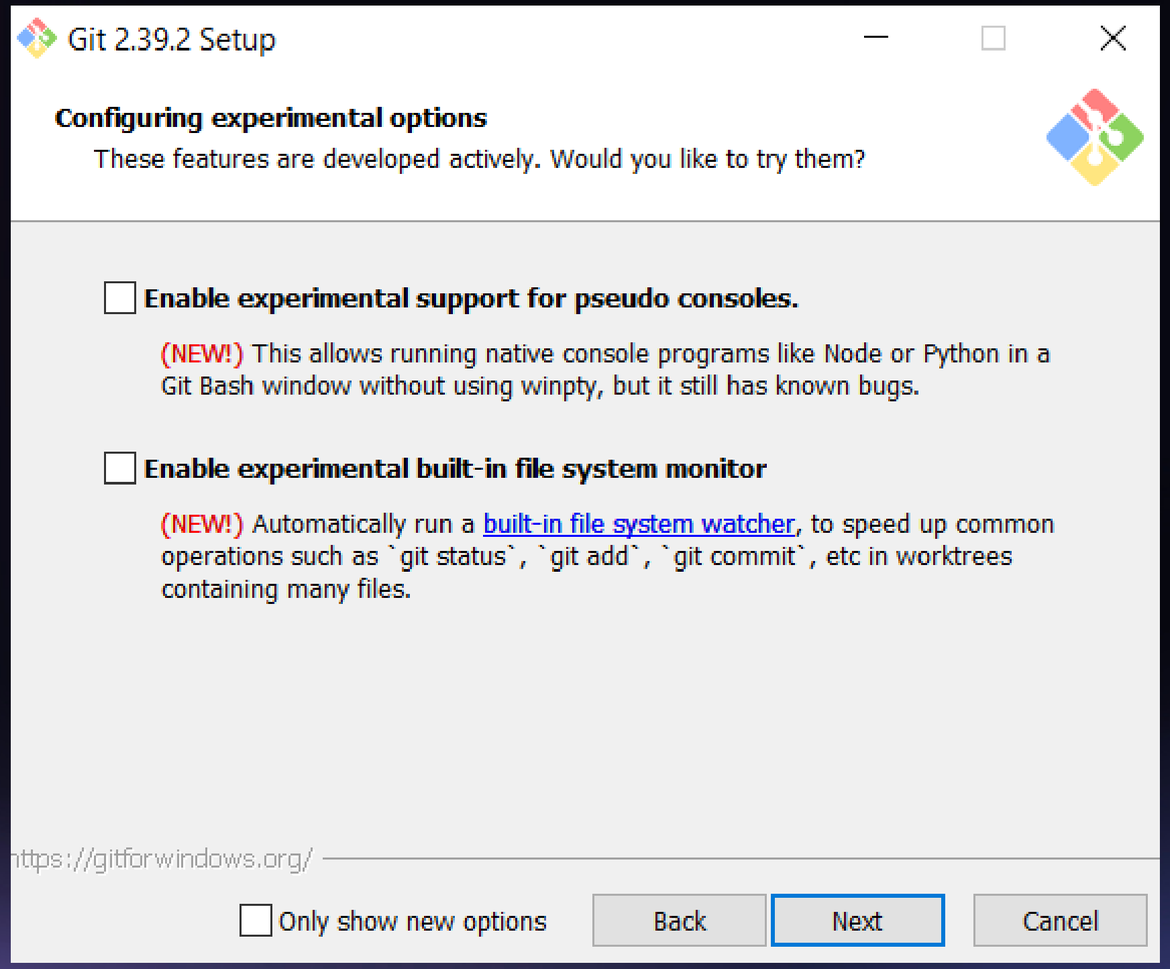
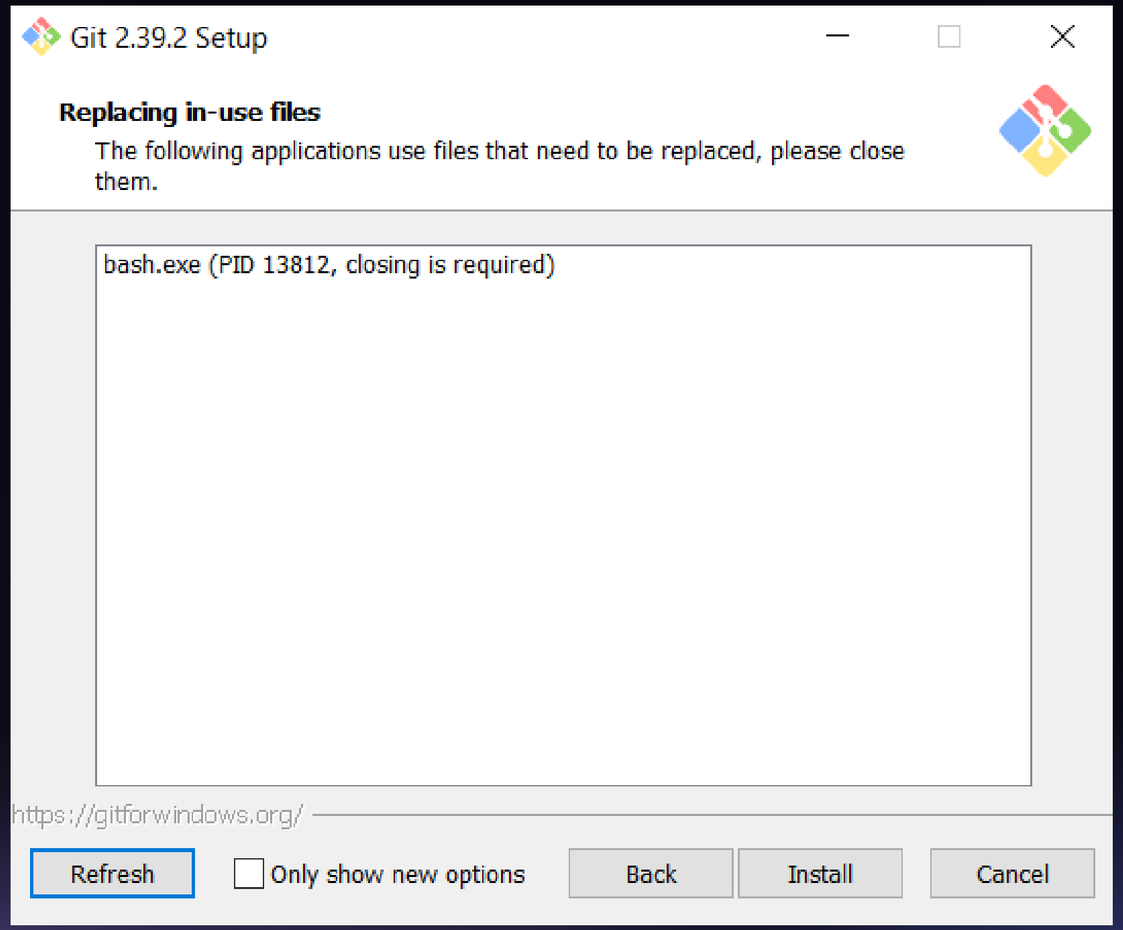


Installing Git

- Now click Install

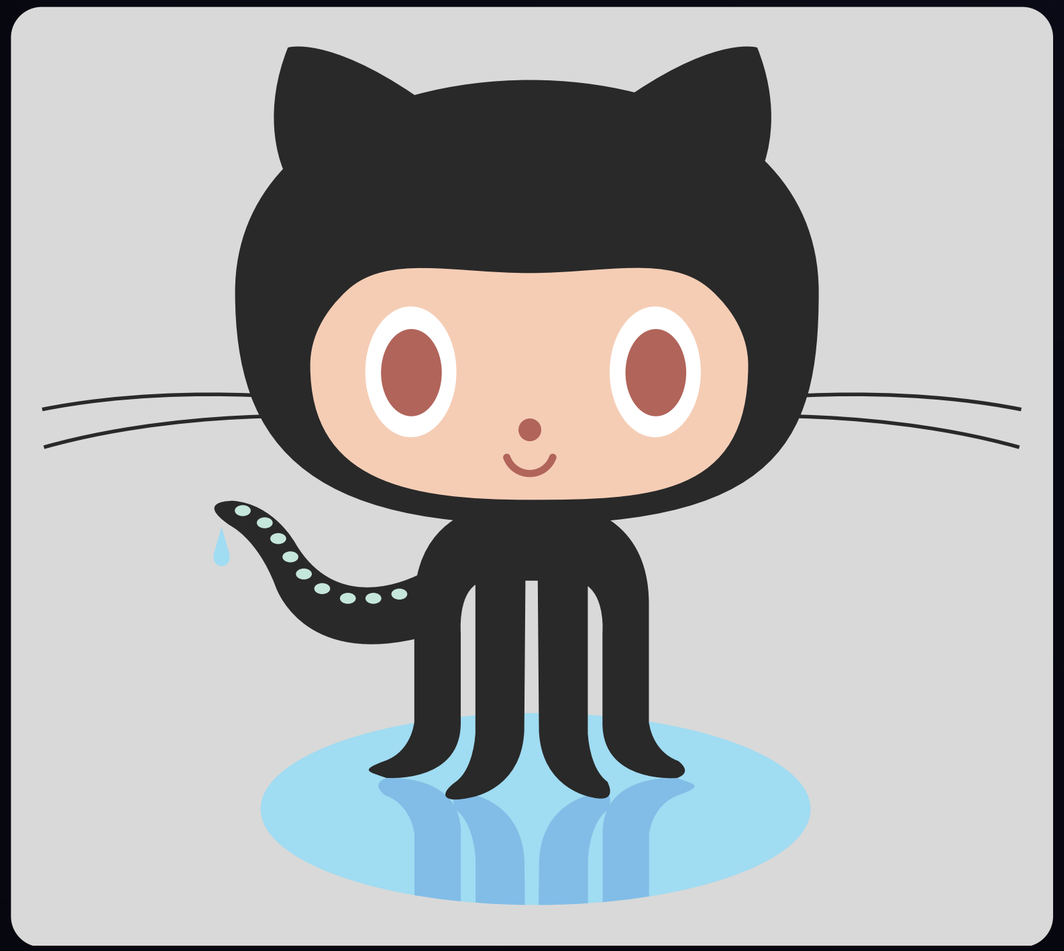


You have successfully Installed Git

What is GitHub?

Introduction

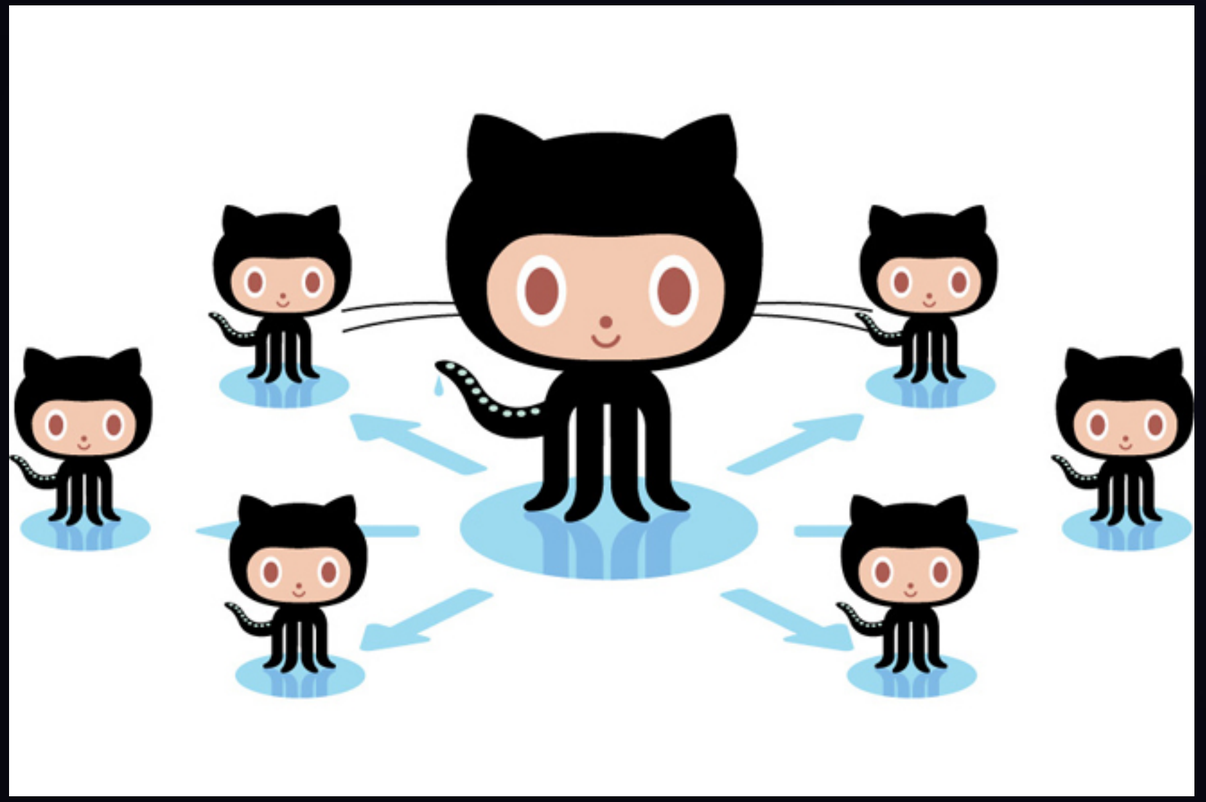
- GitHub is an application that allows you to store remote repositories on their servers.
- They also provide a user-friendly platform to interact With & manage your reposifories.
- GitHub is public, allowing millions to share their projects to the world.



Why use GitHub?

GitHub allows you to:

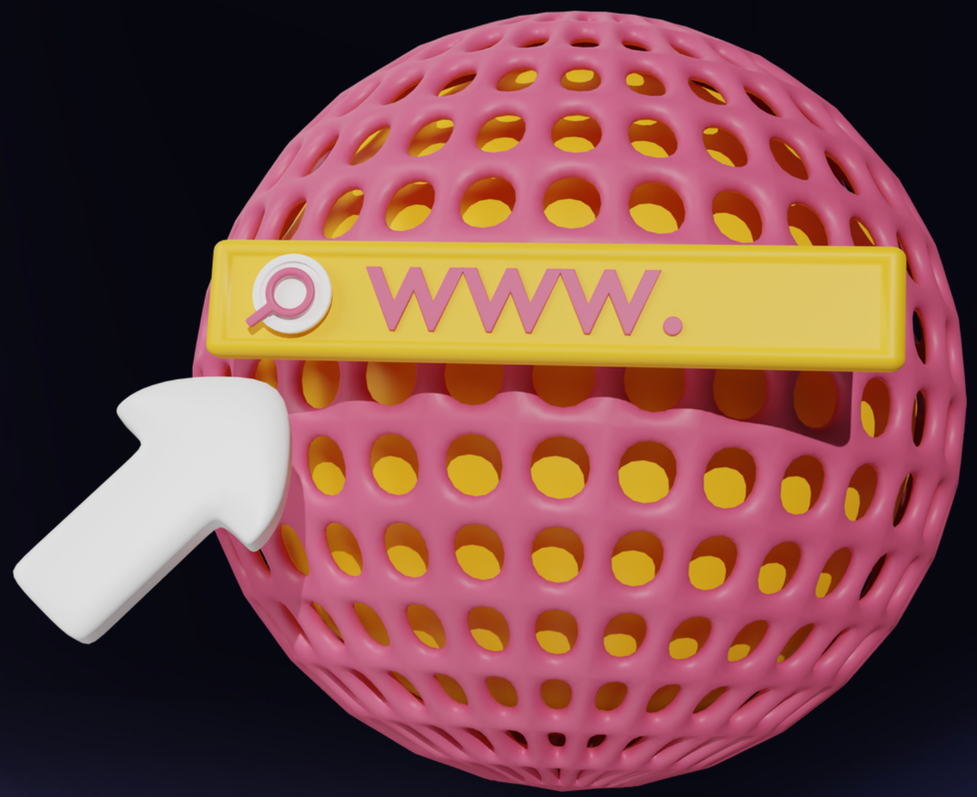
- Have a portfolio of your best work.
- Open opportunities you might not have with a local repository
- Easy access from any device in any location.
- Industry standard for hosting Git repositories



How to Create GitHub Account

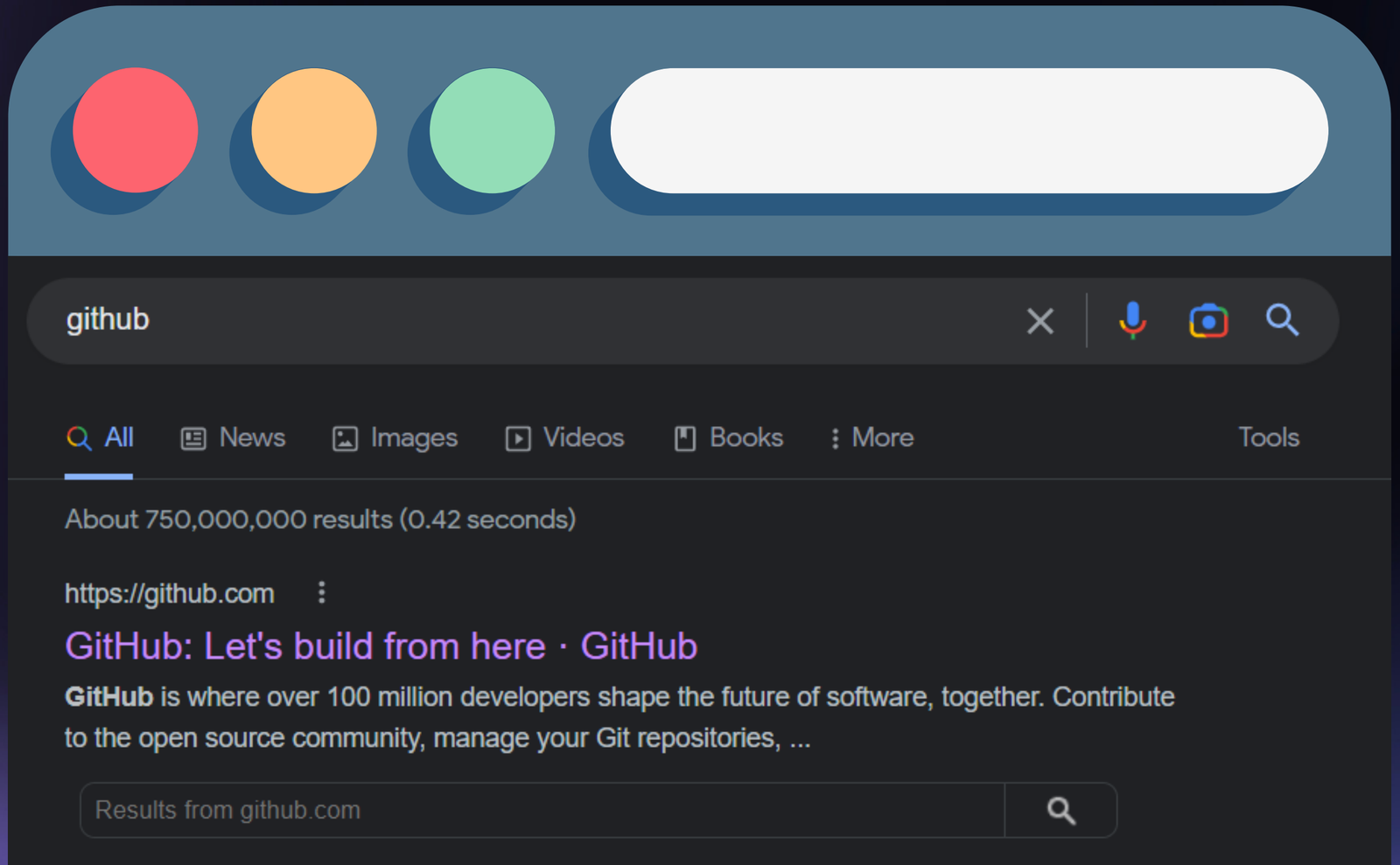
How to Create GitHub Account

- open your web broswer and search GitHub



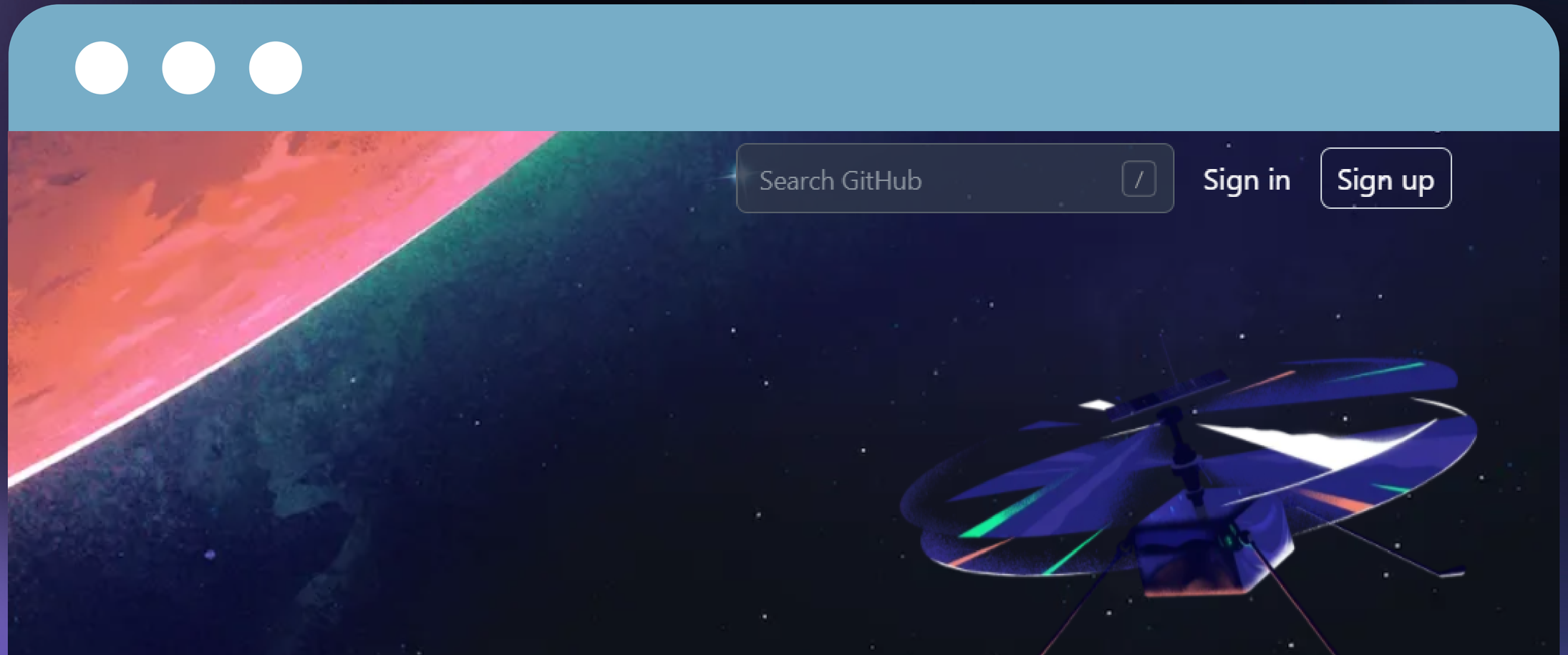
How to Create GitHub Account

- click on first search result on your web browser



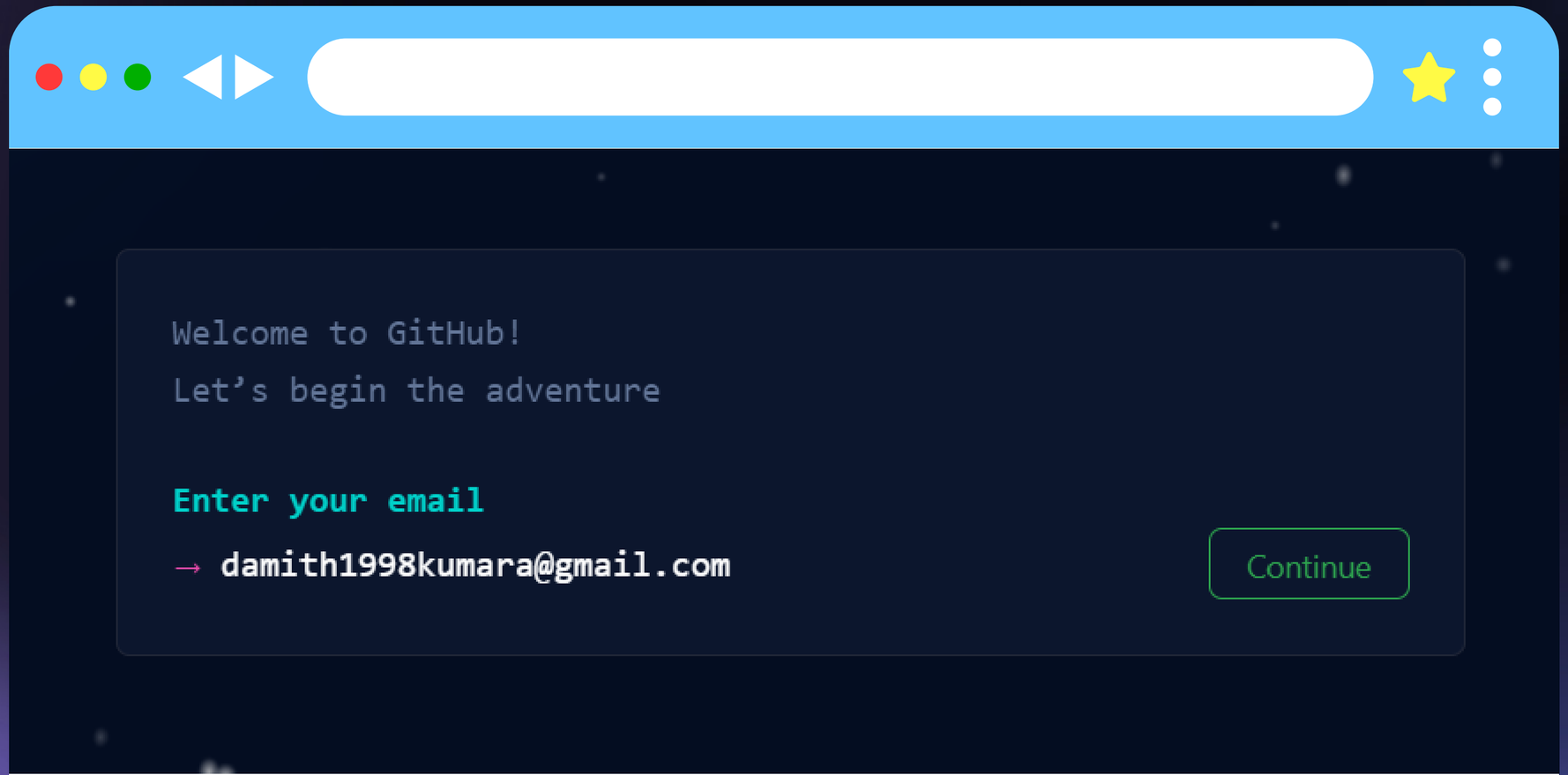
How to Create GitHub Account

- now click on Signup button



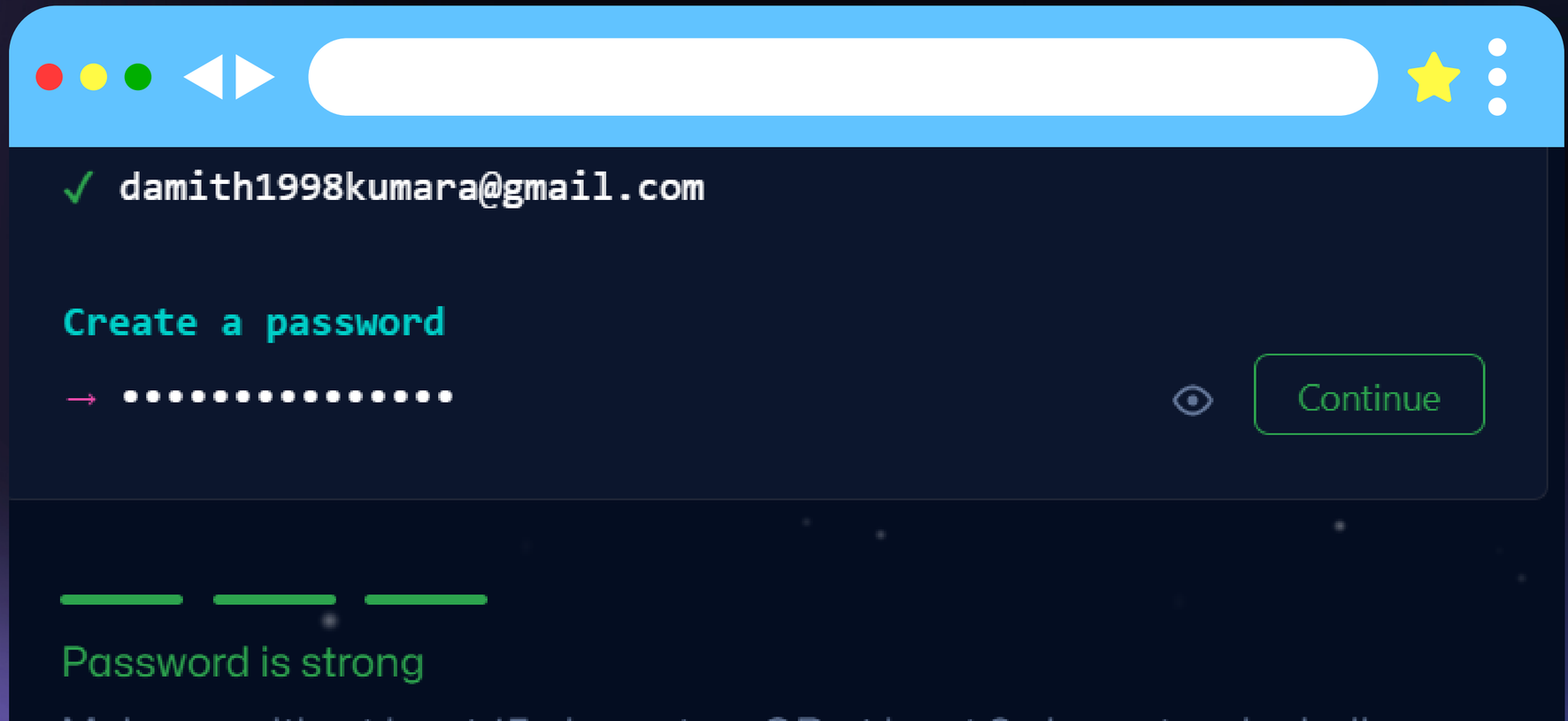
How to Create GitHub Account

- now enter your valid email address and click Continue



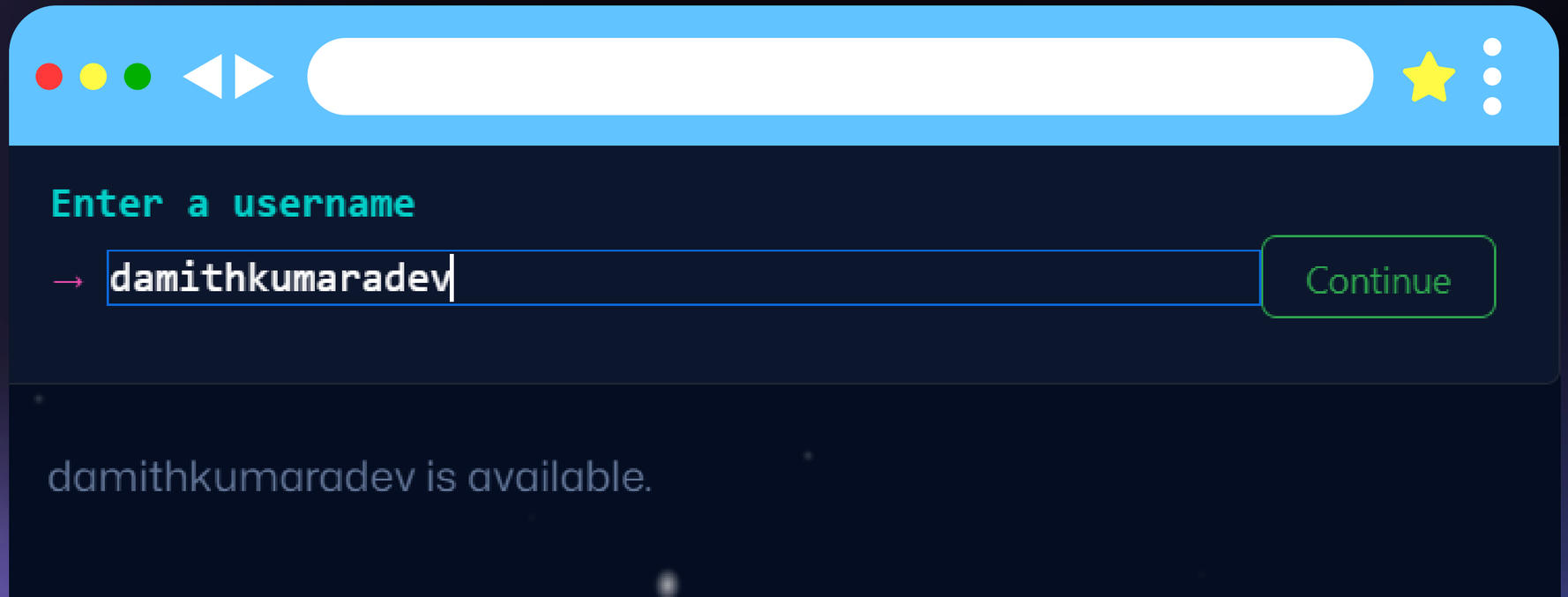
How to Create GitHub Account

- create strong password and click continue



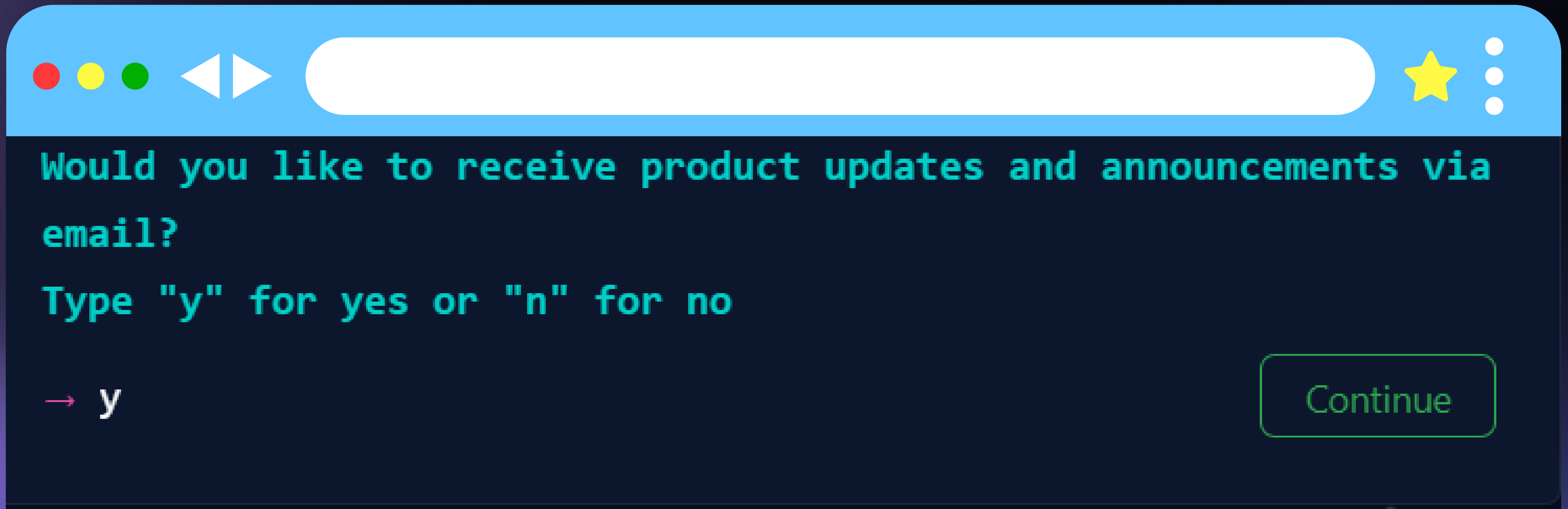
How to Create GitHub Account

- set your username for github and check that is available or not , if that available click continue



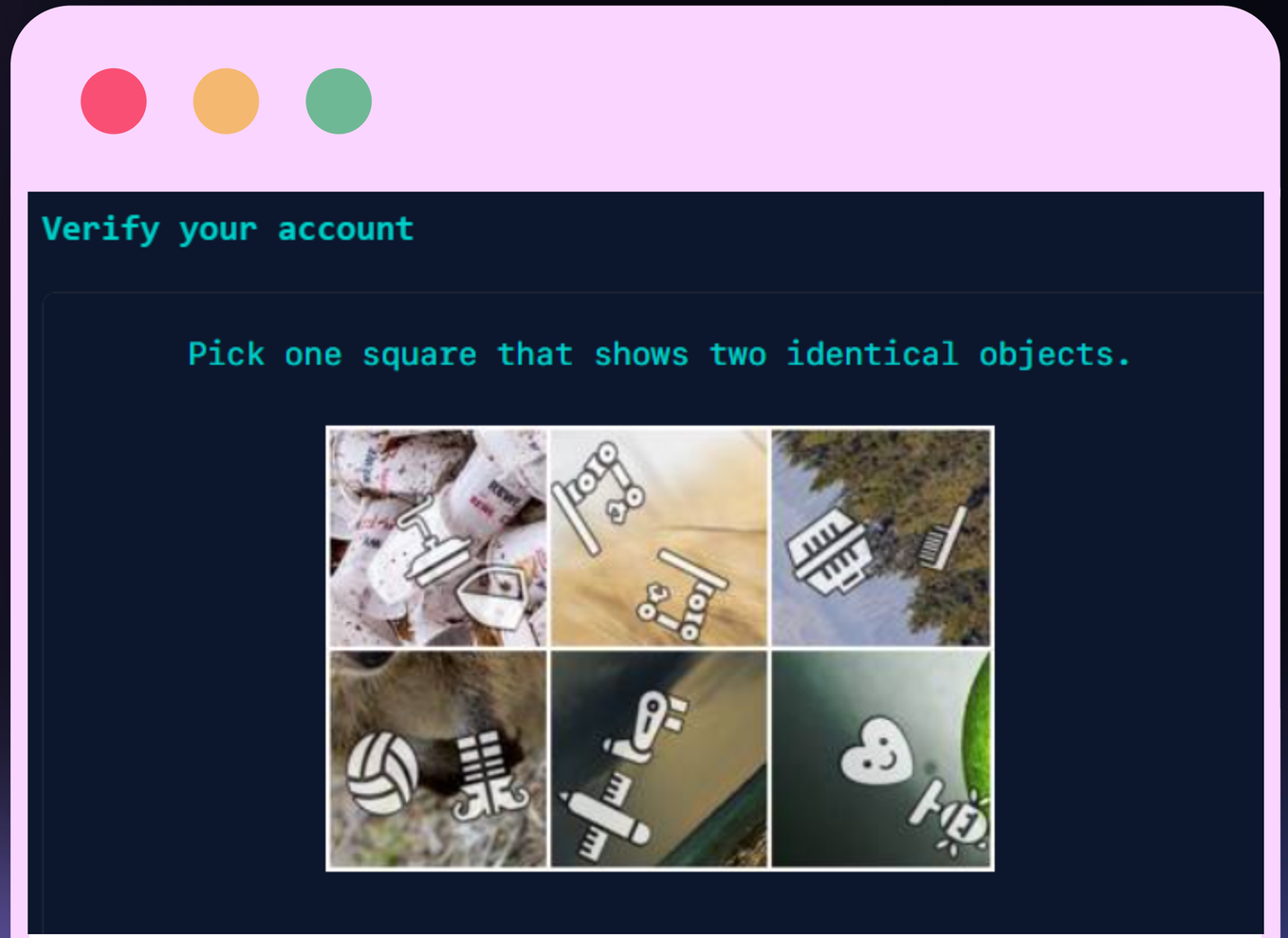
How to Create GitHub Account

- in here you can type y for yes and n for no, after that click on Continue button



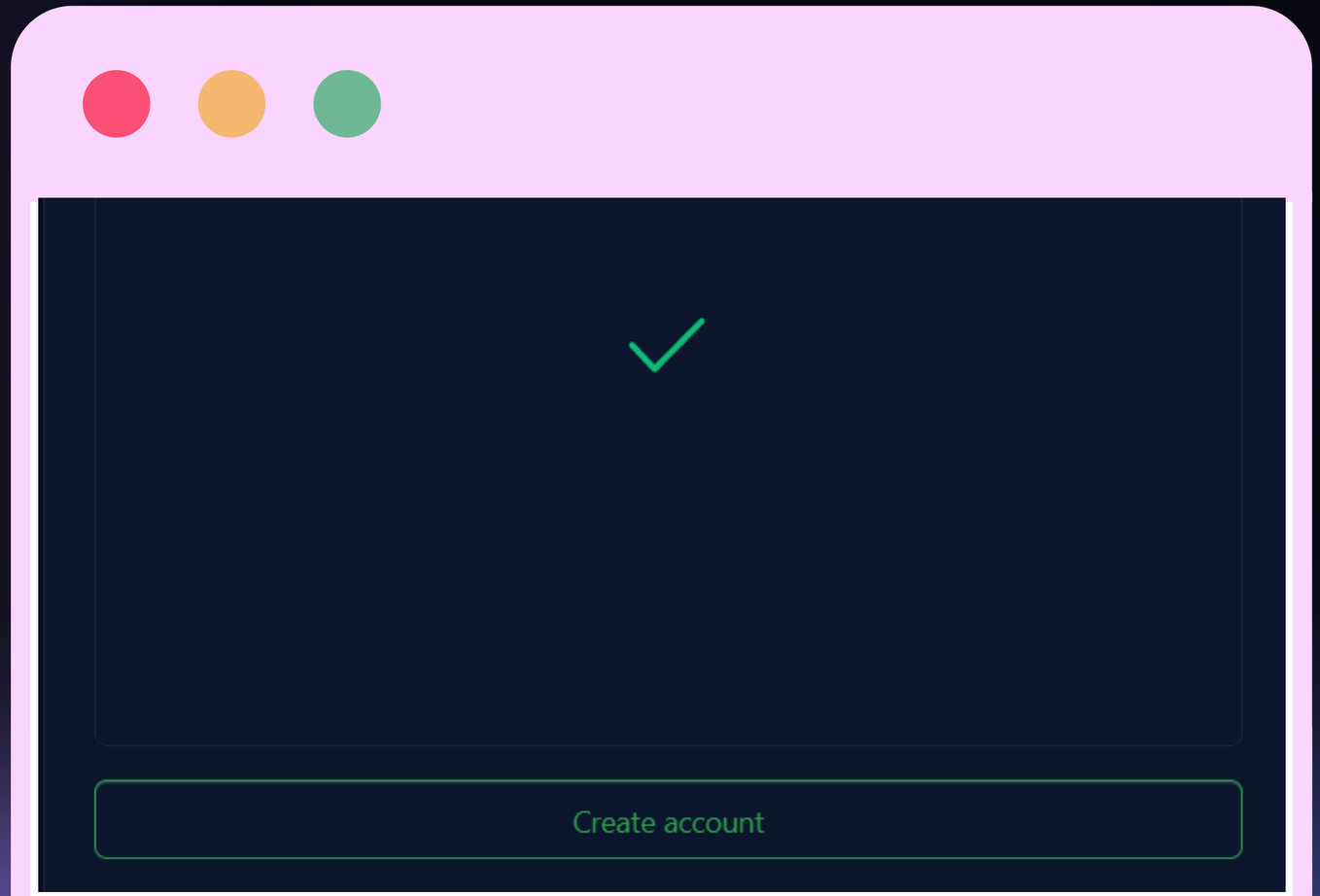
How to Create GitHub Account

- now you need to verify your account by solving the puzzle



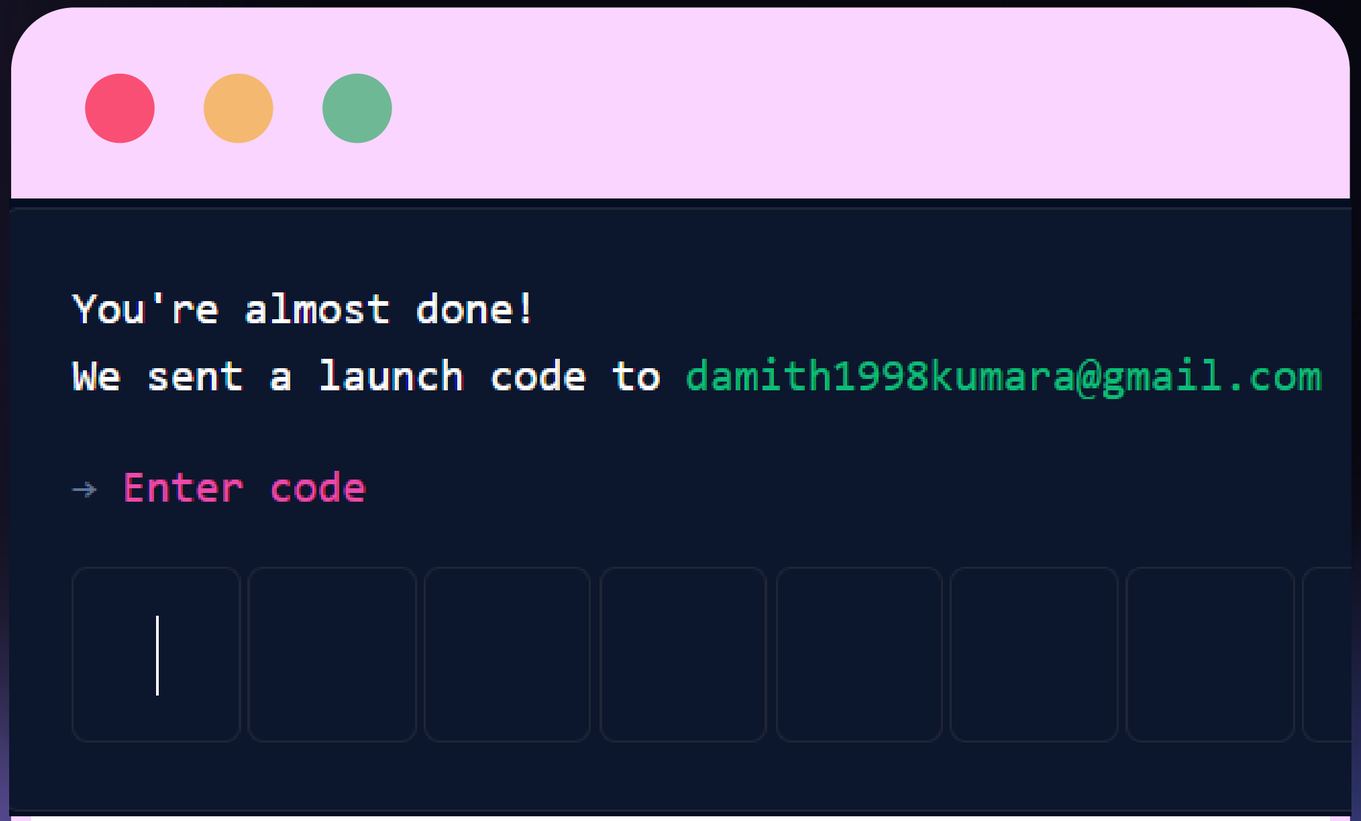
How to Create GitHub Account

- after solving the puzzle simply click on the create account



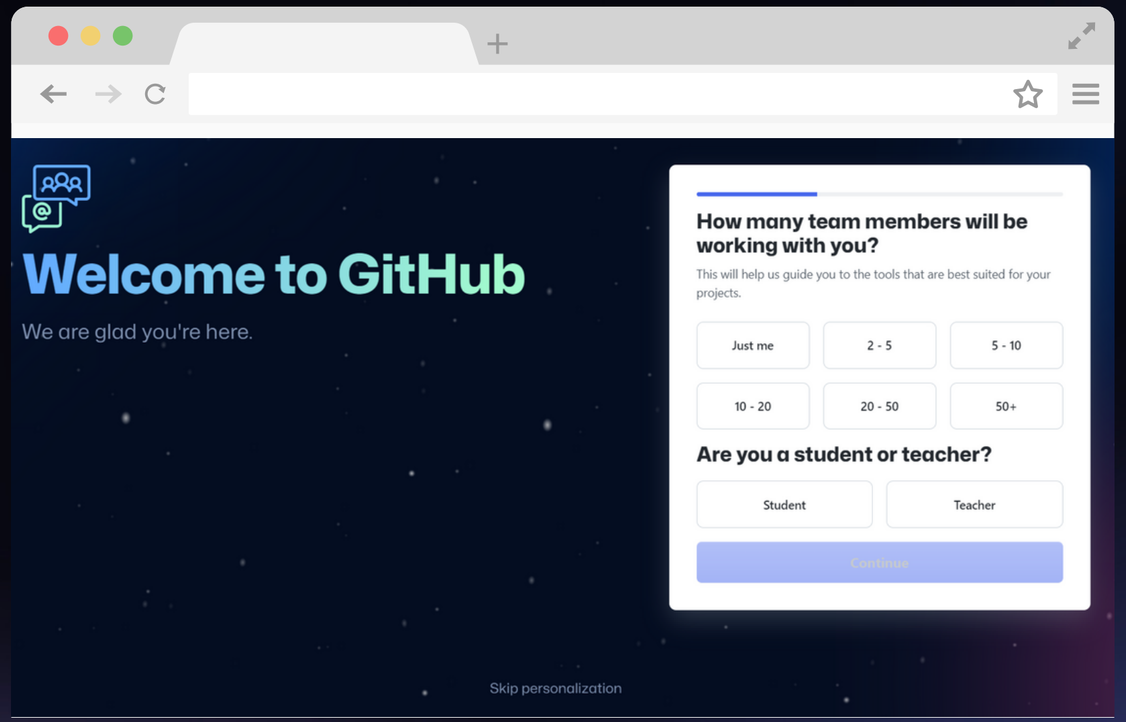
How to Create GitHub Account

- now you need to enter the verification code, you can find that in your email address



How to Create GitHub Account

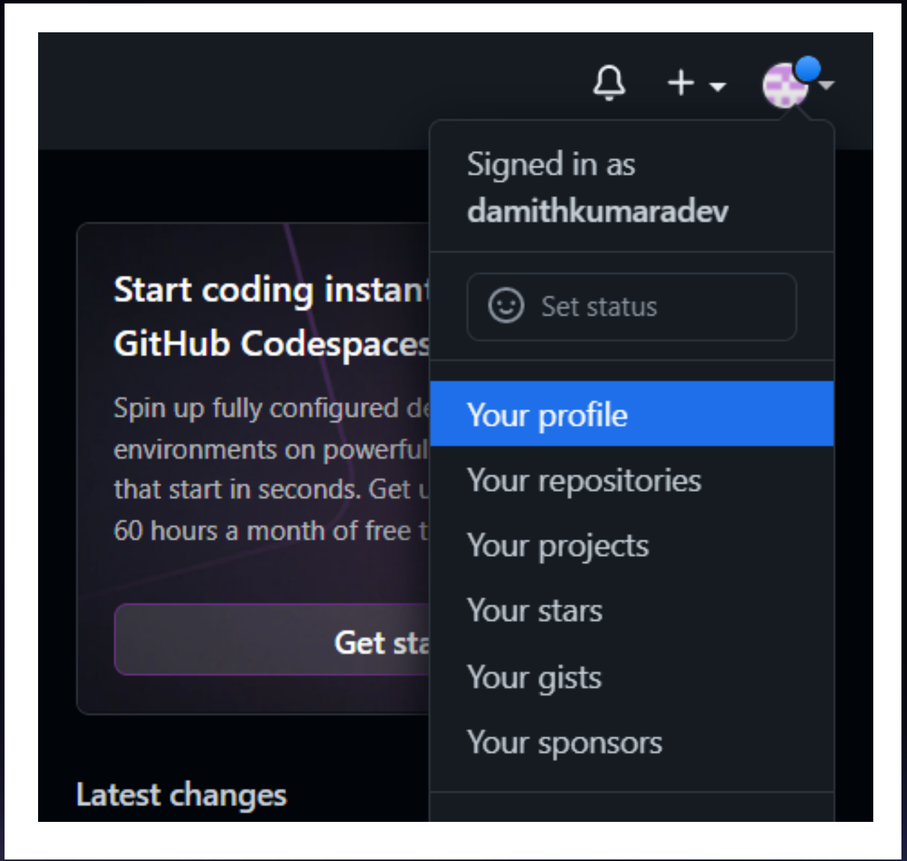
- if you have successfully entered your pin you can see below window in that they are asking some questions regarding you, if you wish you can fill that otherwise you can skip that part.



You have successfully created your Github Account

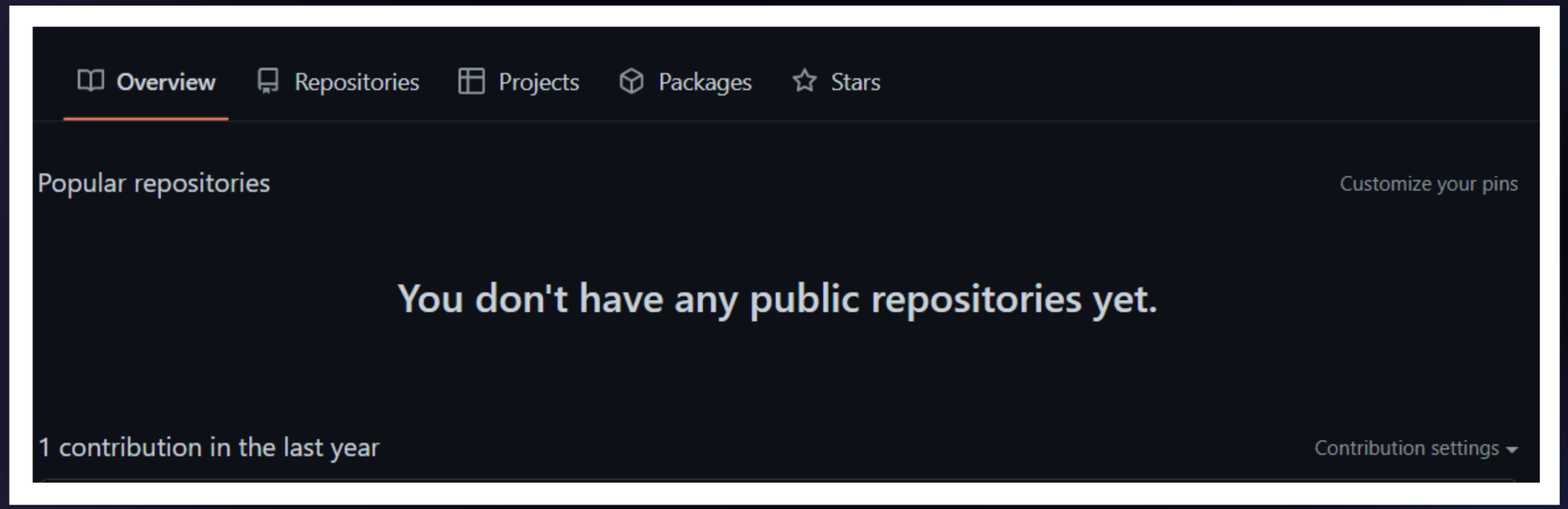
Create Your First repository

- first go to the top right corner in Github and go to your profile



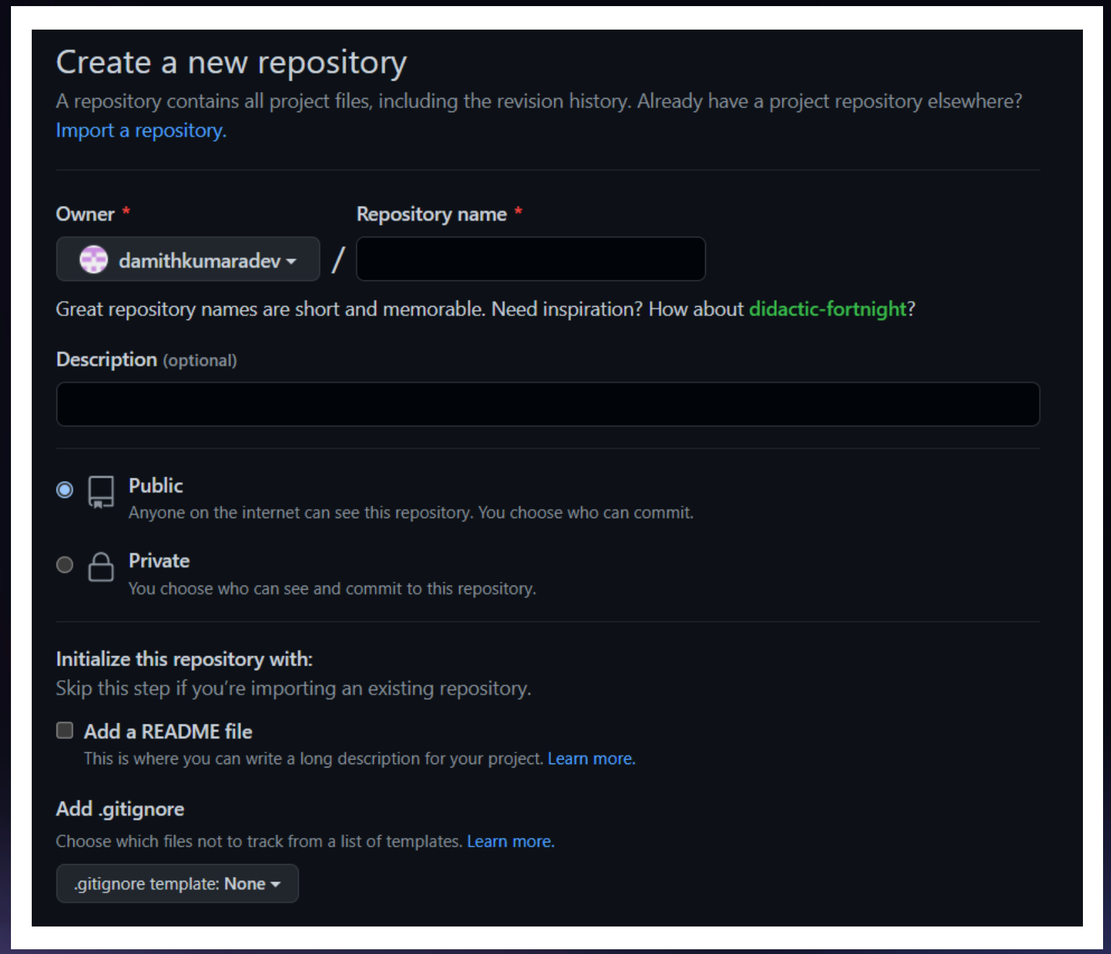
Create Your First repository

- now click on repositories



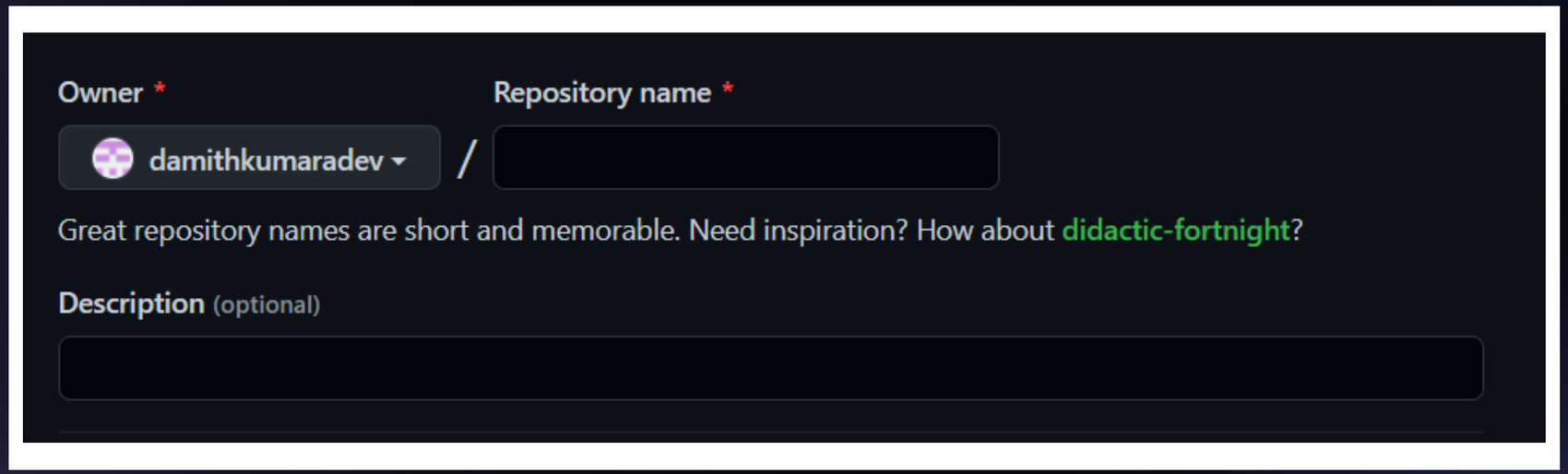
Create Your First repository

- now click on New button after that you can see below window



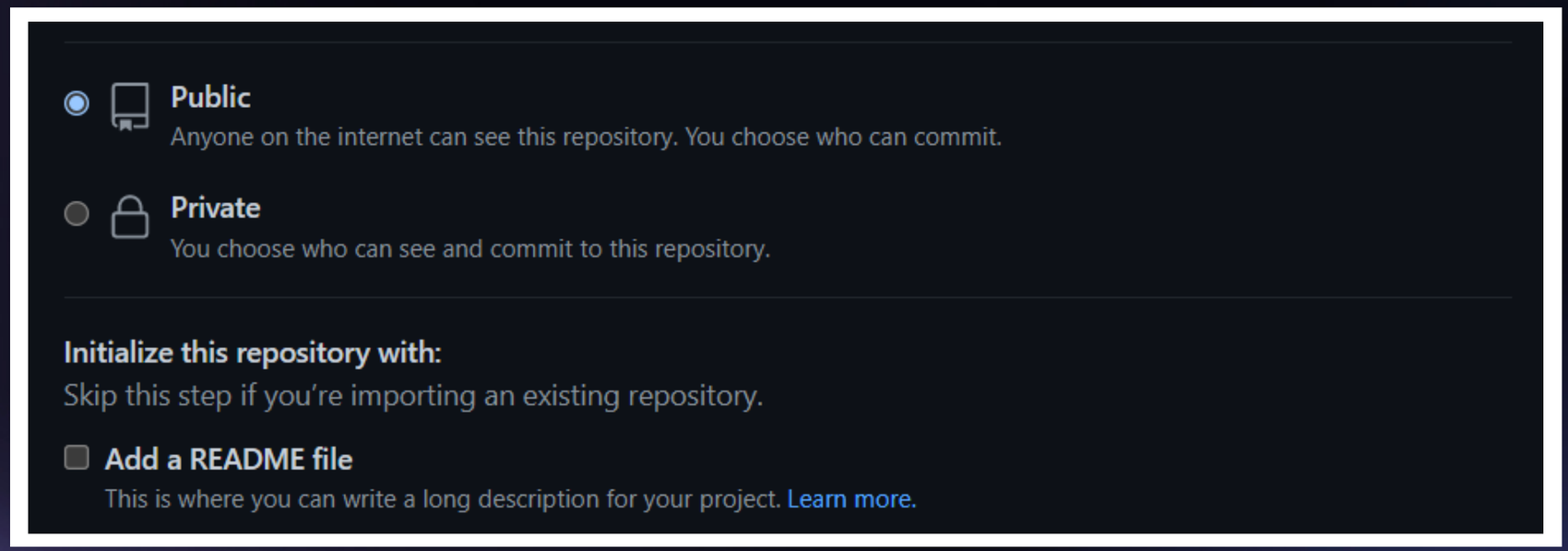
Create Your First repository

- now you need to set the Owner of your repository and need to give the repository name and need to give some description about this repository



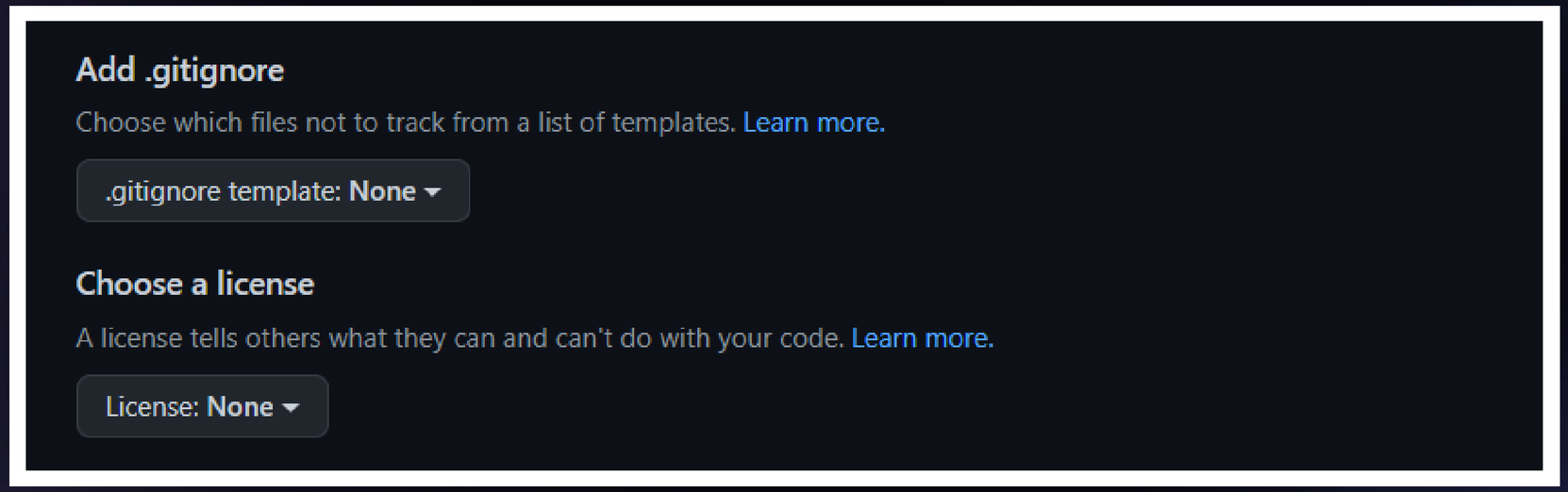
Create Your First repository

- need to select visibility of your repository, that is public or private. after that you need do add the README file for your repository



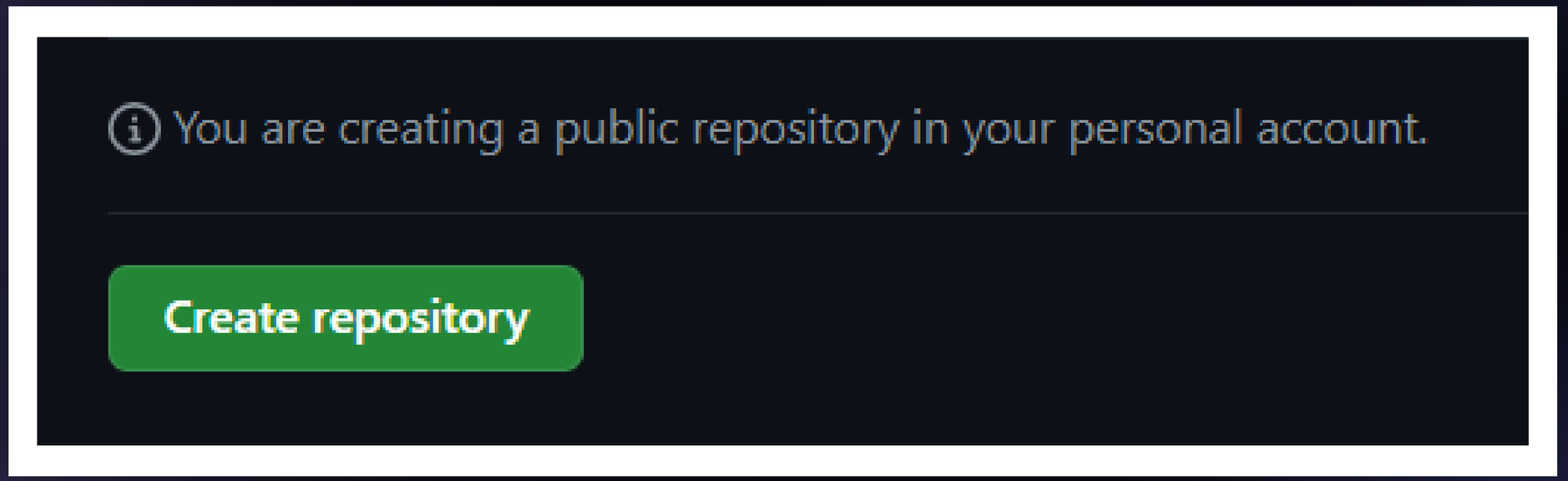
Create Your First repository

- now add .gitignore file to your repository and Choose a license for your project



Create Your First repository

- after that click on create repository



Owner * Repository name *

damithkumaradev / mytest

Great repository names are short and memorable. Need inspiration? How about didactic-fortnight?

Description (optional)

this is sample project for github

Public
Anyone on the internet can see this repository. You choose who can commit.

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

Initialize this repository with:
Skip this step if you're importing an existing repository.

Add a README file
This is where you can write a long description for your project. Learn more.

Add .gitignore
Choose which files not to track from a list of templates. Learn more.

.gitignore template: None

Choose a license
A license tells others what they can and can't do with your code. Learn more.

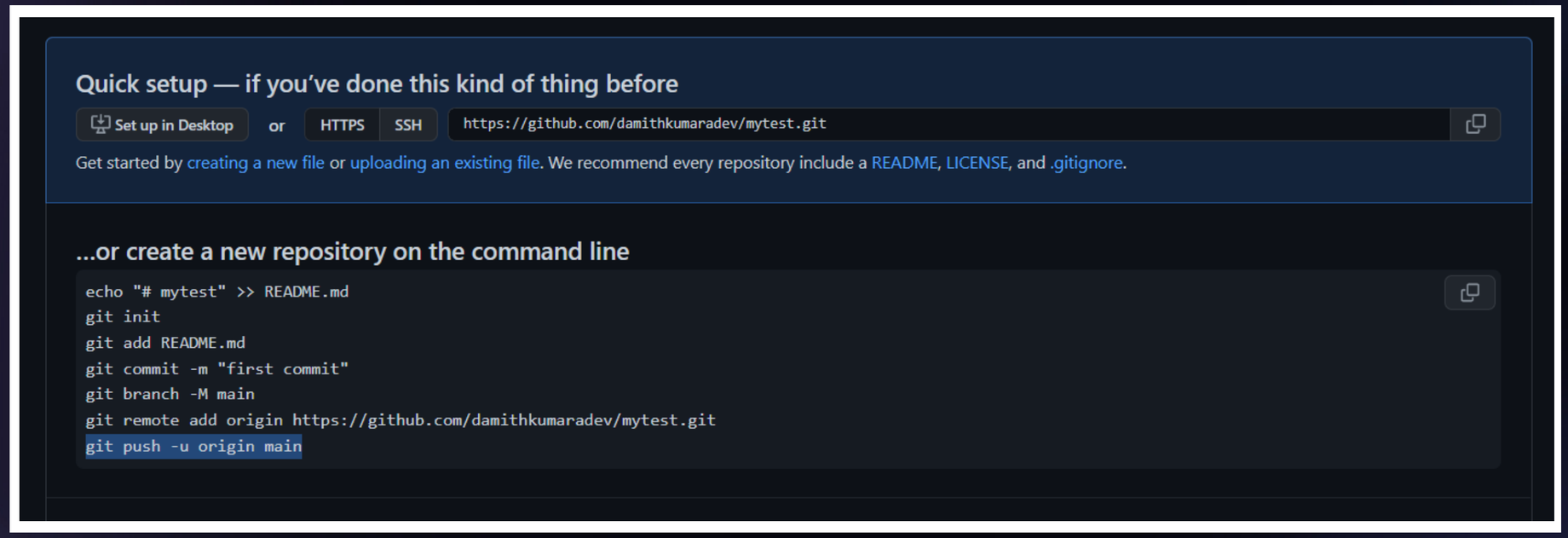
License: None

You are creating a public repository in your personal account.

Create repository

Create Your First repository

- Now you can see the new window like below



You have successfully created your first repository

Upload your first Project to GitHub

Upload your first Project to GitHub

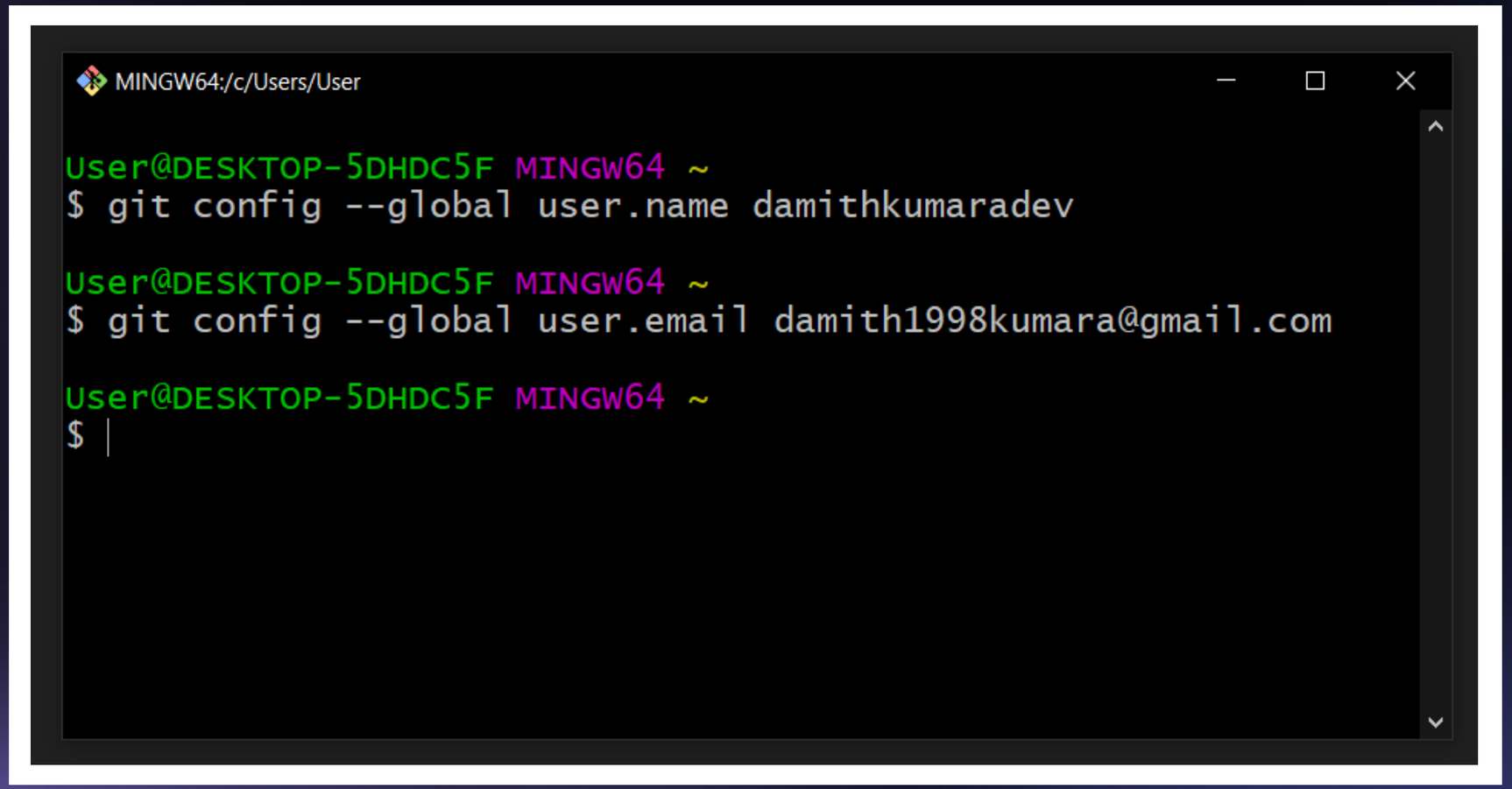
- In first time we need to configure your GitHub account with Git
- For that open Git Bash terminal in your PC
- We can use below code snapped to configure the GitHub account with Git

```
$ git config --global user.name "Your name here"

$ git config --global user.email "your_email@example.com"
```

Upload your first Project to GitHub

- type that command and press the enter key



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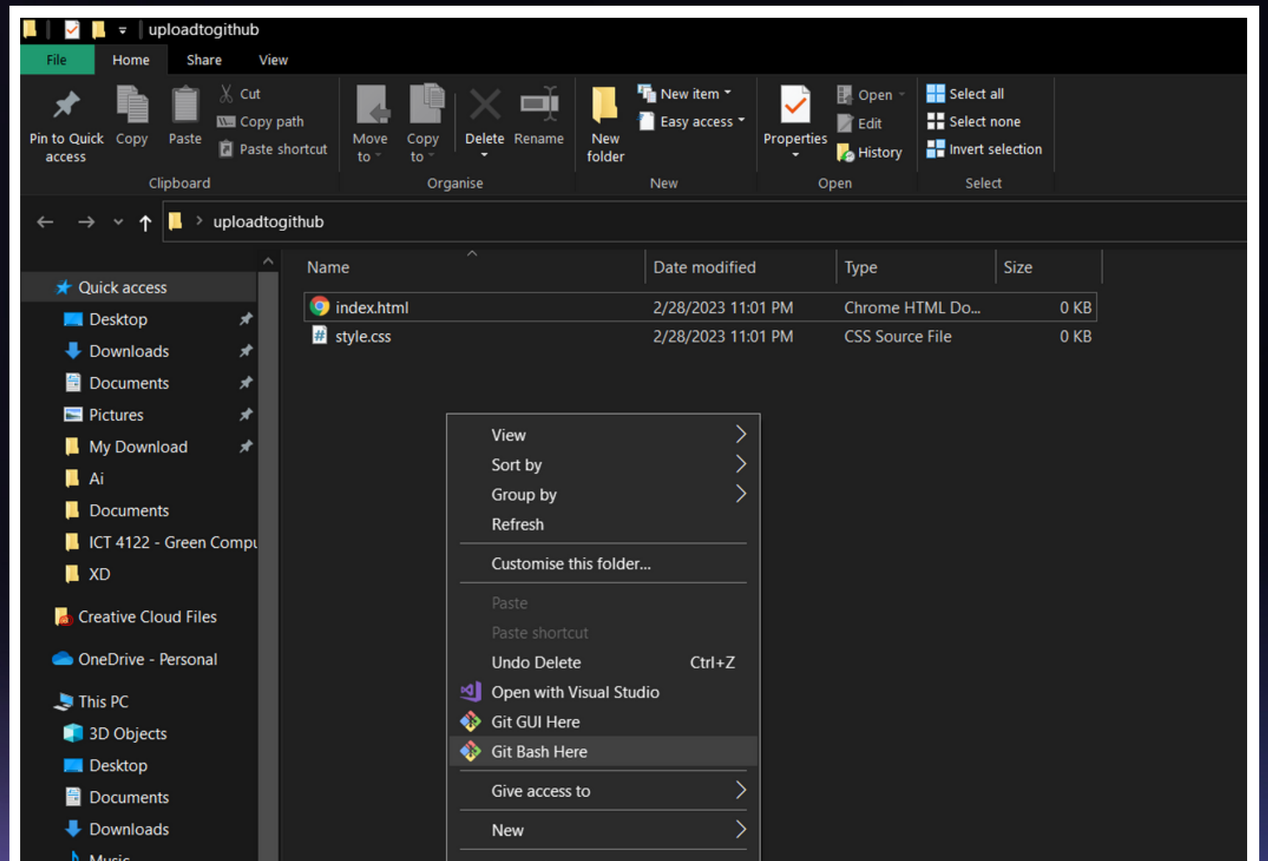
- Now go to your project folder and right click on that folder, select Git Bash Here



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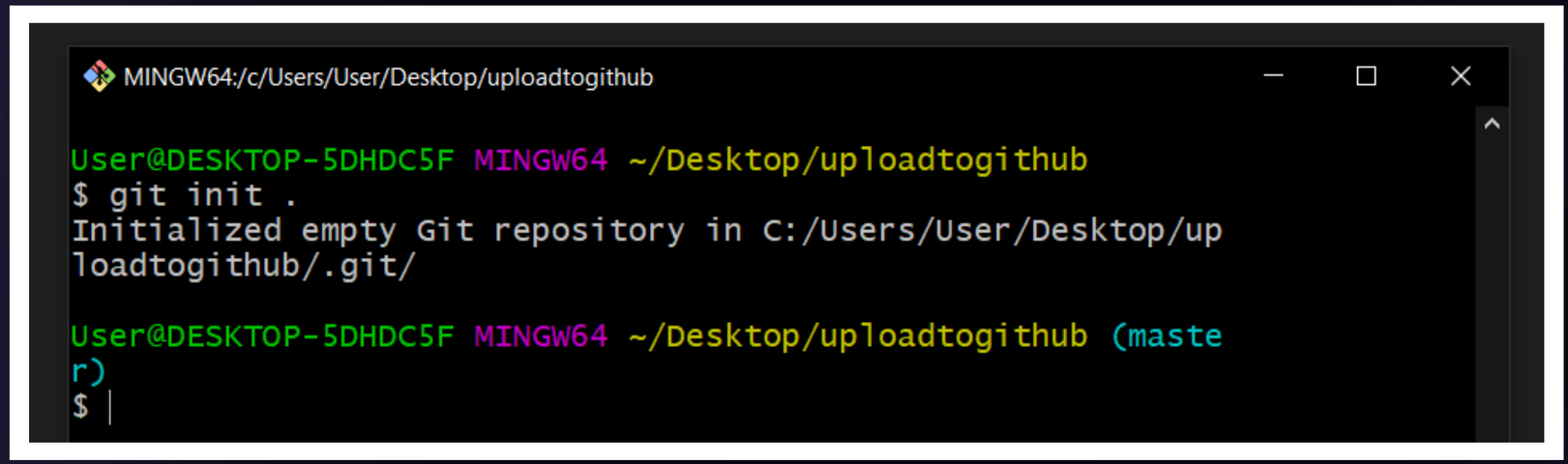
- Now enter the below code snapped and press enter
  git init .



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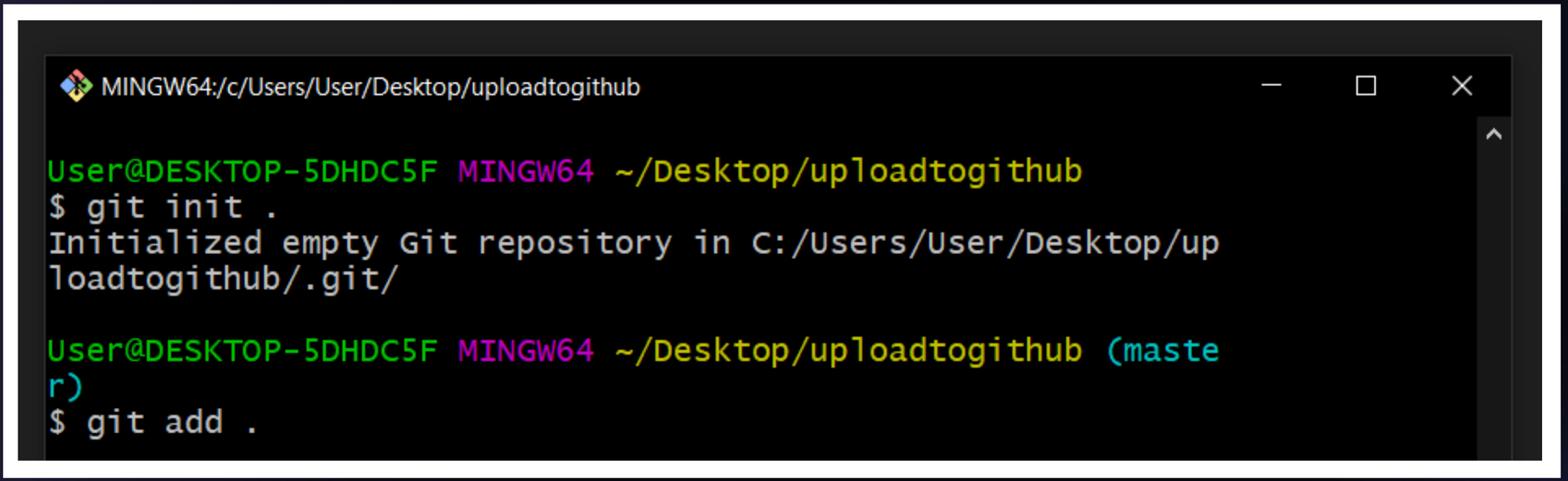
- Now enter the below code snapped and press enter
  git add .



Upload your first Project to GitHub

- Now enter the below code snapped and press enter
  git commit -m "first commit"

```
User@DESKTOP-5DHDC5F MINGW64 ~/Desktop/uploadtogithub (master)
$ git commit -m "my first upload"
[master (root-commit) b78d196] my first upload
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
 create mode 100644 style.css
```

Upload your first Project to GitHub

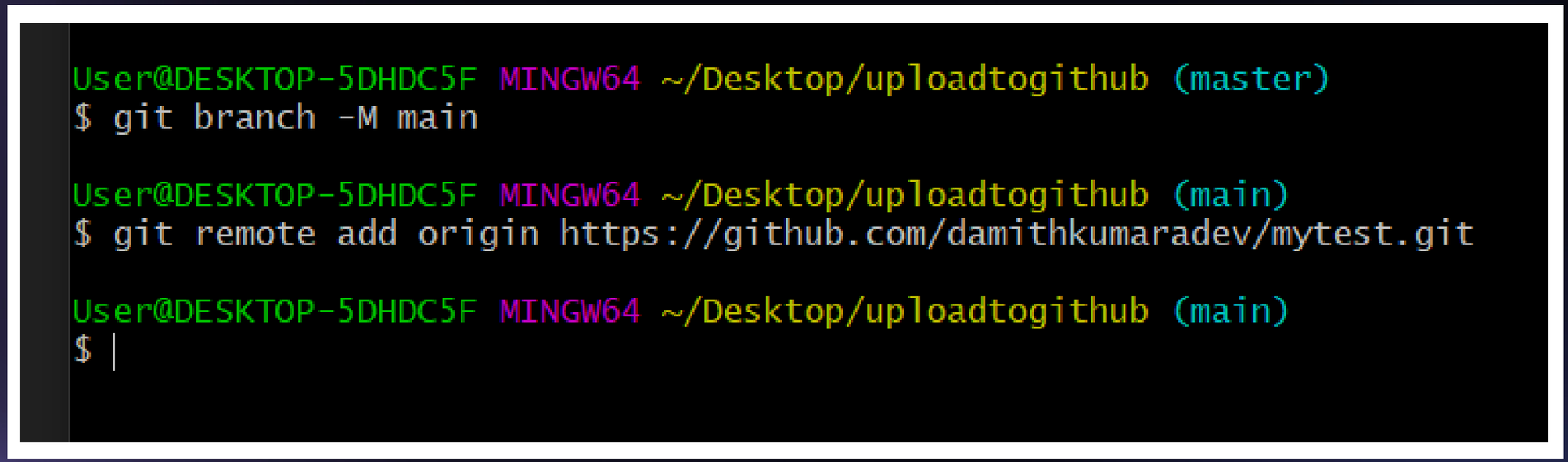
- Now enter the below code snapped and press enter
  git branch -M main

Upload your first Project to GitHub

- Now enter the below code snapped and press enter
  git remote add origin your_repository_url

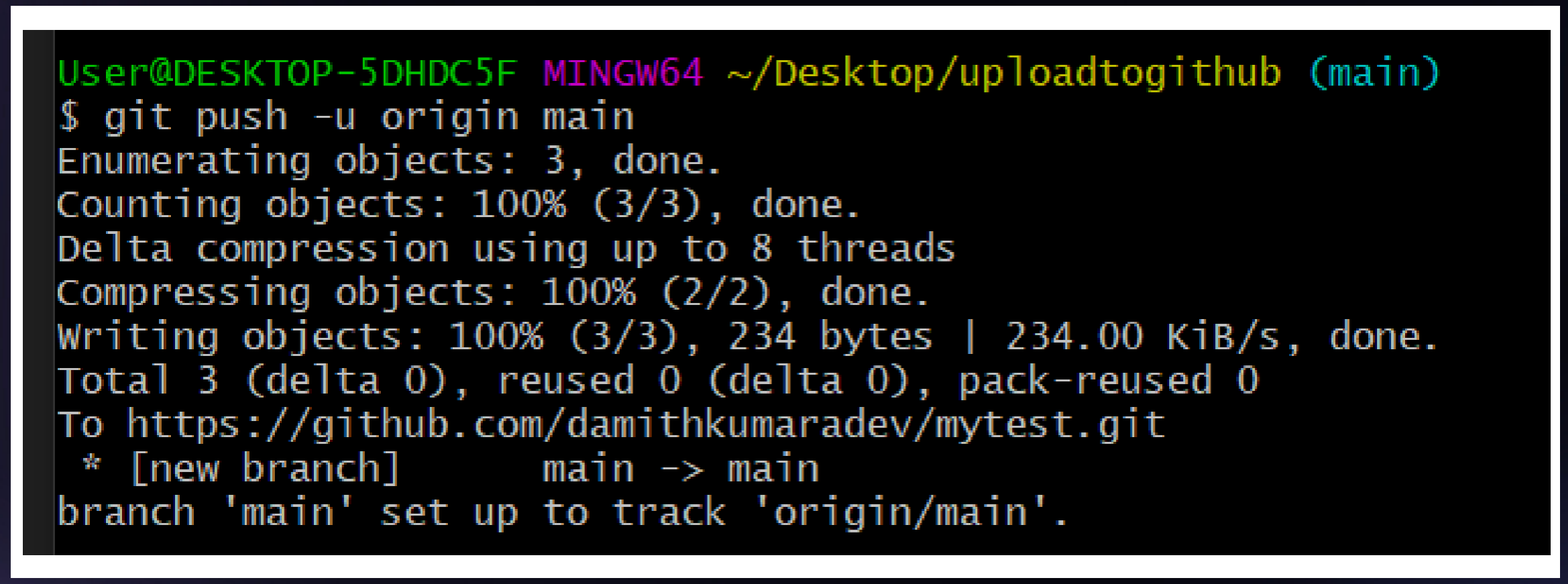
Upload your first Project to GitHub

- Now enter the below code snapped and press enter
  git push -u origin main



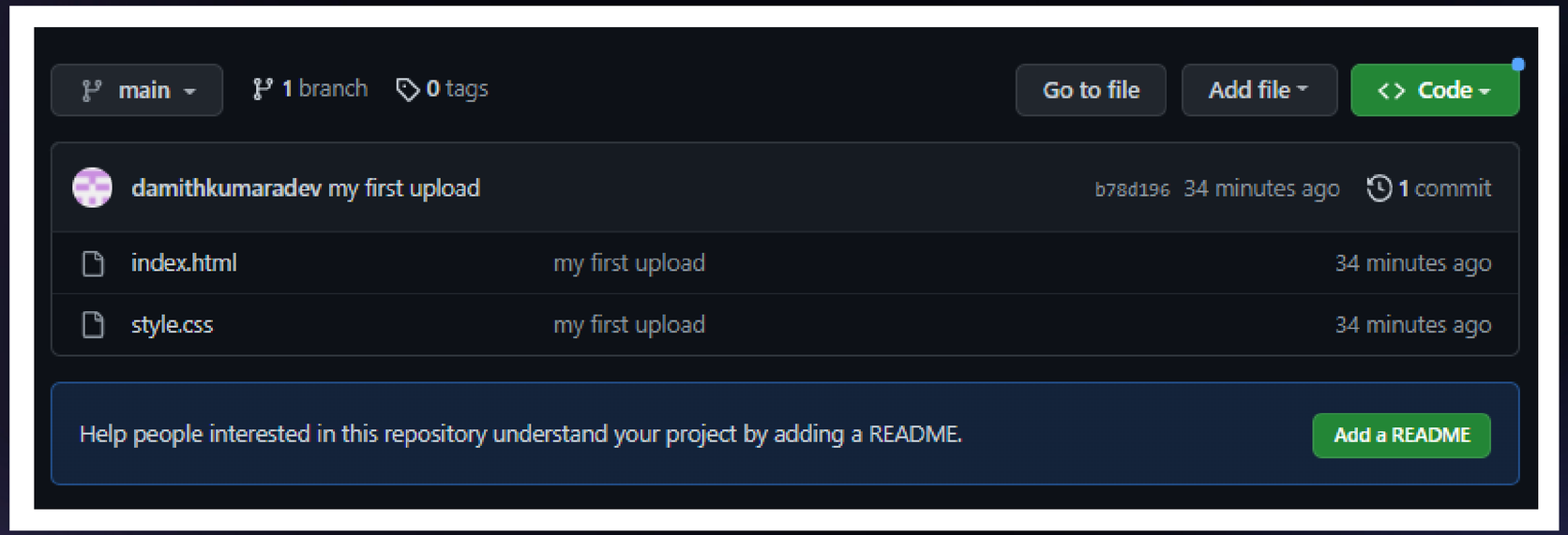
Upload your first Project to GitHub

- Now enter the below code snapped and press enter
  git push -u origin main



Upload your first Project to GitHub

- Now reload your Web browser and you can see the uploaded code in your GitHub account



You have successfully uploaded your first project to GitHub

Bonus

Find me on

 /bdhamithkumara

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THANK
YOU