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# GIT VS GITHUB

★ *Proper distinction..*

What is Git?

What is Github?

3 Primary actions

Git vs Github

Integrating Both

Push you changes

Recap



Learn all in one place



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# WHAT IS GIT ?



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

A screenshot of the Git website homepage. The header features the Git logo (a red diamond with a white 'G') and the text 'git --local-branching-on-the-cheap'. To the right is a search bar with the placeholder text 'Search entire site...'. The main content area has a light gray background with a subtle grid pattern. On the left, there is text describing Git as a 'free and open source distributed version control system' and 'easy to learn' with 'lightning fast performance'. On the right, there is a 3D diagram showing several stacks of white cards connected by colored lines (red, blue, yellow) to represent a branching structure. The diagram shows a main branch with several branches branching off and merging back.

First of all, **GitHub** is not **git**. **Git** is a version control software (**VCS**) for developers.

**Version control refers to** the process of saving different files or '**versions**' throughout the various **stages of a project**.

What is Github?







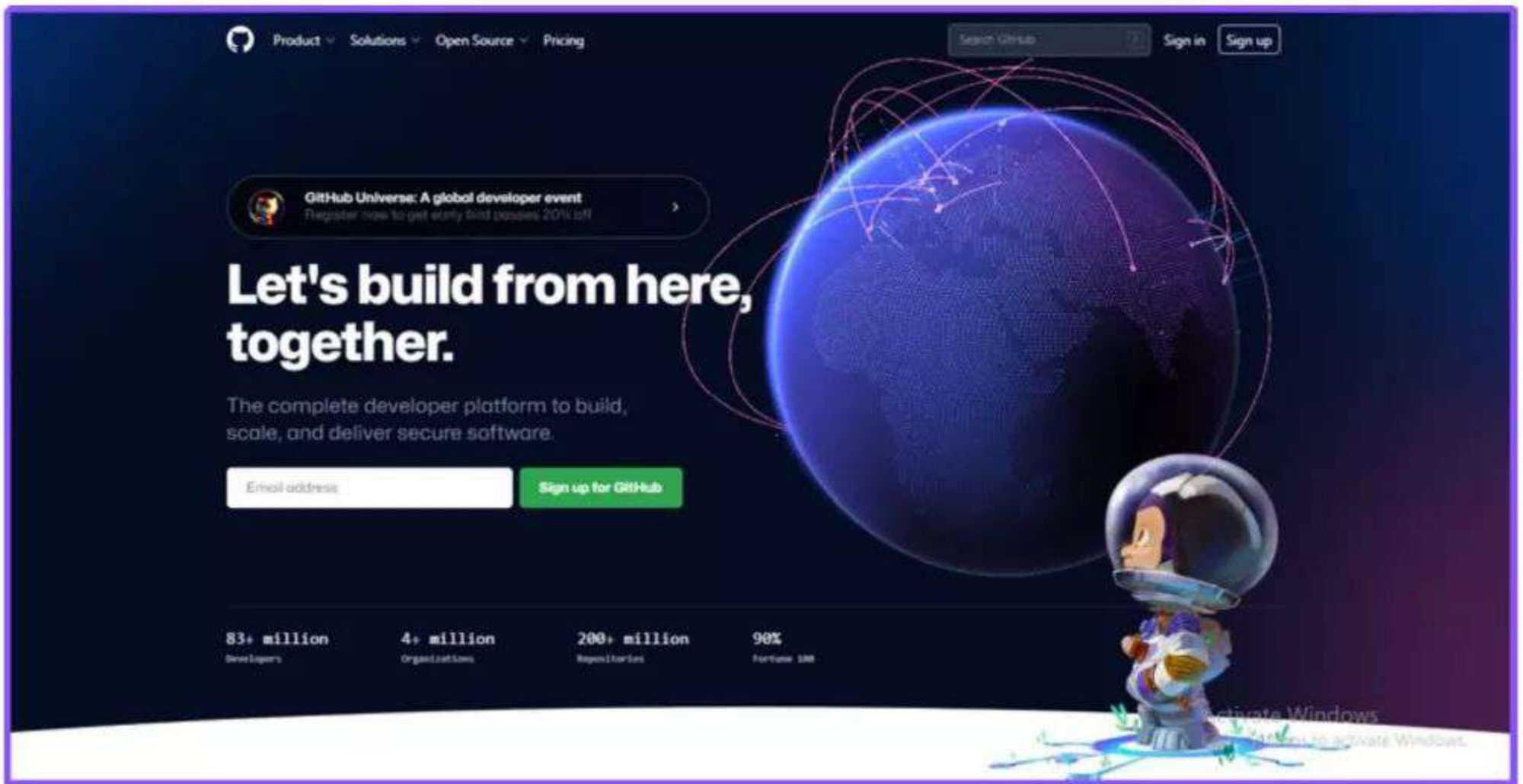
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# WHAT IS GITHUB ?



<https://github.com/>



**GitHub** makes it easier to collaborate using git. It's a platform that can hold repositories of code in cloud-based storage so that multiple developers can work on a single project and see each others' edits in real-time.

3 Primary Actions



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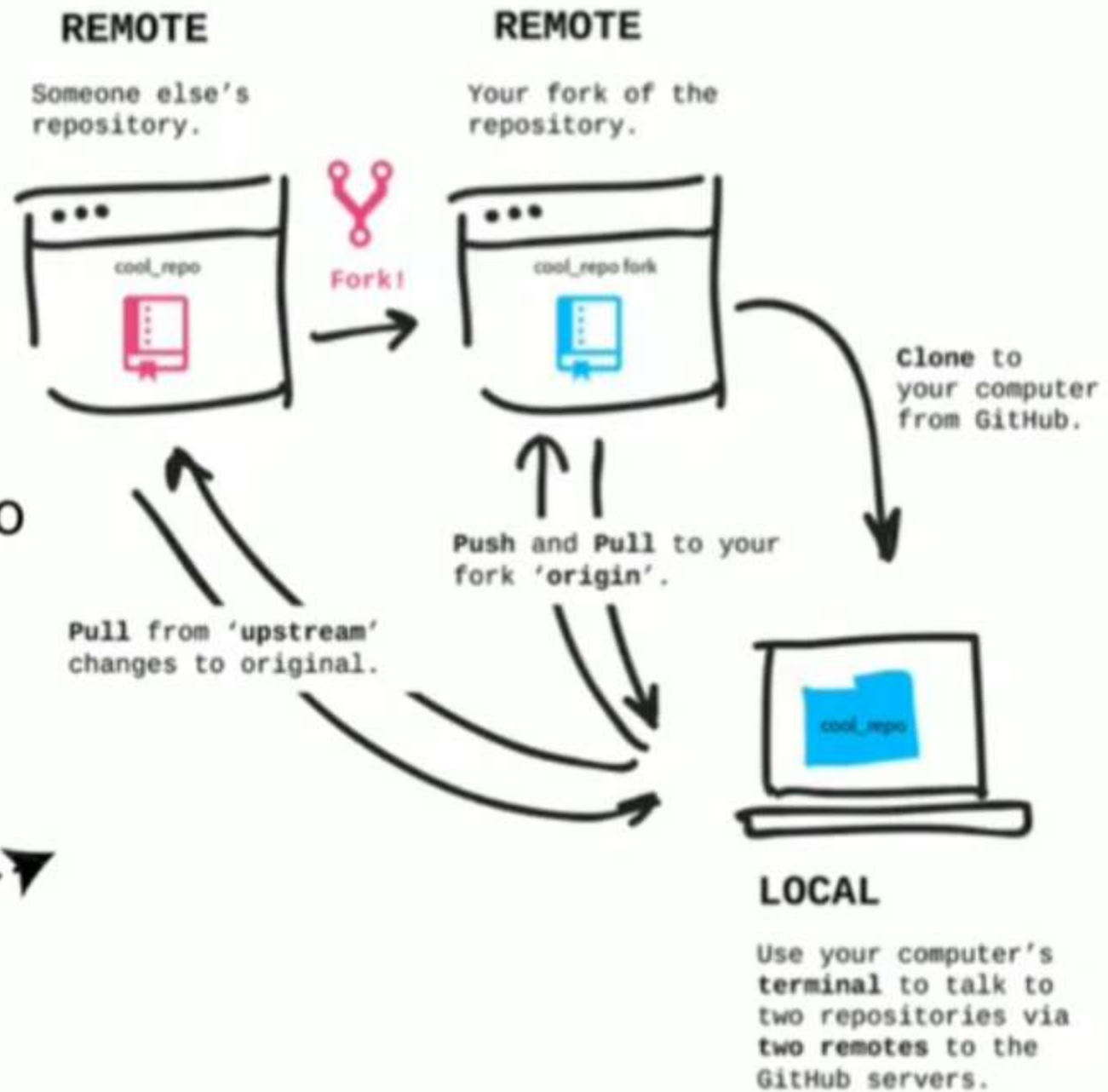
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## 3 Primary Actions to interact with other developers' code on GitHub :

### ✓ Fork & Clone:

The process of **copying** another's code from the repository in order to modify it.



### ✓ Pull :

When you've finished making changes to someone else's code, you can share them with the original owner via a **'pull request'**.

### ✓ Merge :

Owners can **add new changes** to their projects via a merge, and give credit to the contributors who suggested them.





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# GIT VS GITHUB

Git

vs.

GitHub



First developed  
in 2005



One thing that  
really sets Git  
apart is its  
branching  
model



Git is installed  
and maintained  
on your local  
system (rather  
than in the  
cloud)

Git is a high quality version control system

GitHub is  
designed as a  
Git repository  
hosting service



GitHub is  
exclusively  
cloud-based



You can share  
your code with  
others, giving  
them the power  
to make  
revisions or edits



GitHub is a cloud-based hosting service

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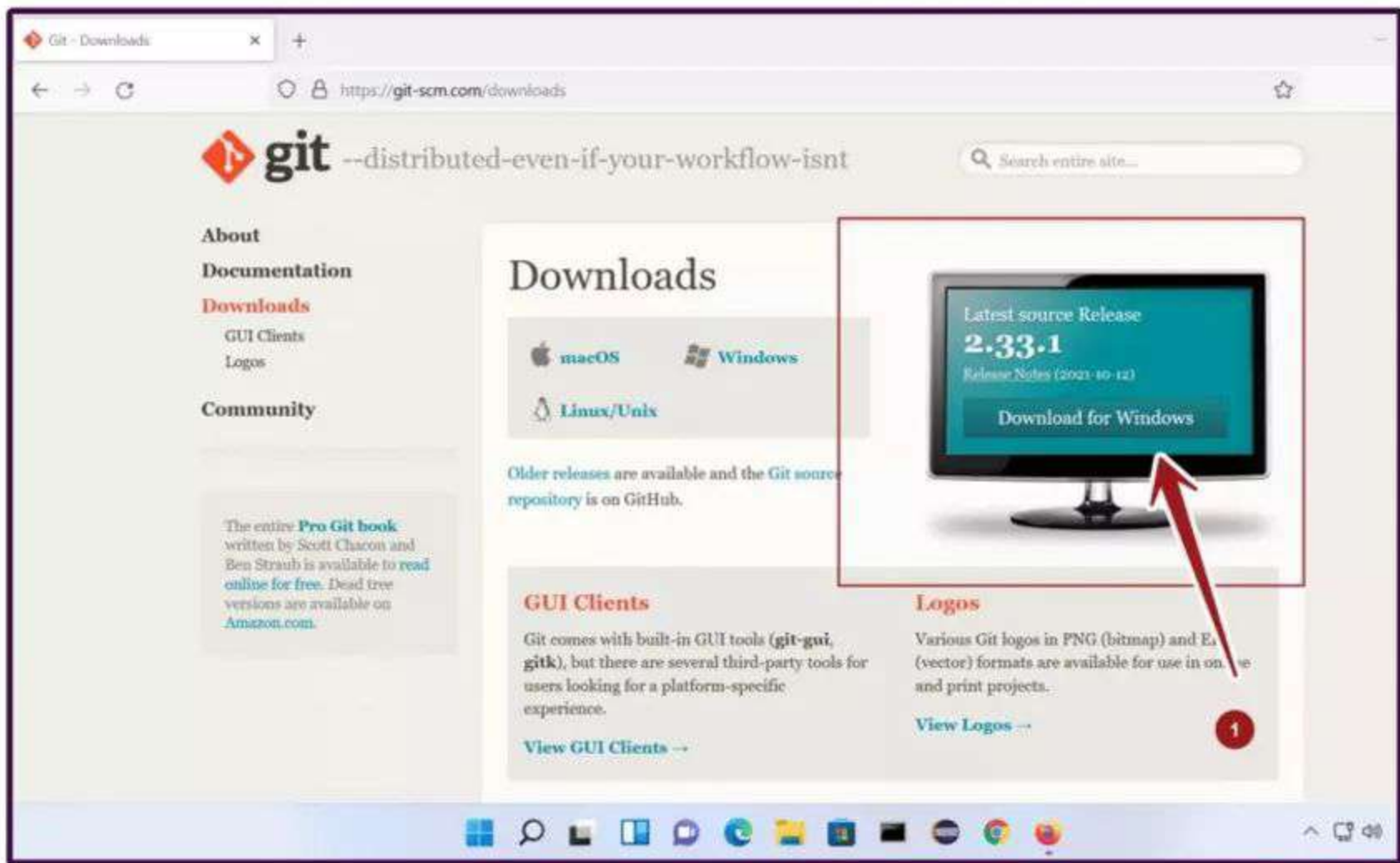
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# INTEGRATE GIT & GITHUB

## STEP 1: Install git and Add a Repository ✓

First, download the git software for your Operating System (OS)



To connect git to **GitHub**, you'll need to add a repository and make at least one commit. You'll then have enough of your project established to start working in GitHub.

## STEP 2 : Create a GitHub Account ✓

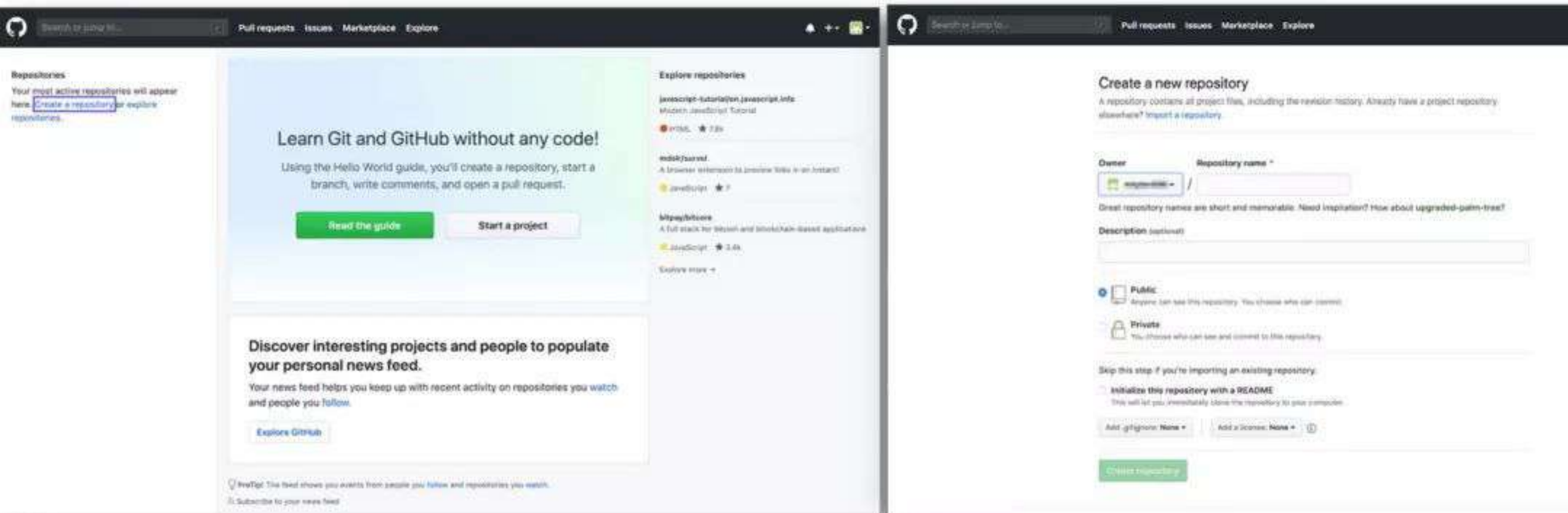
Next, you'll need a GitHub account. You can sign up for one for **free**.





## STEP 3 : Add a GitHub Repository to Your Account

After you've created and set up your account, you'll need to create a repository in GitHub where you can store your project when you move it over from git.



## STEP 4 : Push a Repository to GitHub

Since you've already set up your git repository, you can use the **push an existing repository** from the command line option.

## STEP 5 : Pull Your Changes Back to git

While you can see all the changes you and others have made to your **project on GitHub**, the platform doesn't have direct access to your computer's files. In order to keep your project up-to-date on your computer, you'll need to pull your edits via git.

Recap! →



# RECAP

To integrate **Git and GitHub**, you should follow these steps:

- ☒ Install git, add a repository, and create a commit.
- ☒ Create a GitHub account.
- ☒ Add a GitHub repository to your account.
- ☒ Push a commit to GitHub.
- ☒ Pull your changes back to git.