

Git Local Environment Setup (Windows)

Read Time: 20 mins

In this article we will cover how to set up a local environment in order to use Git on your own Windows PC. Let's go through the steps and get you set up!

What You Need:

- Your own PC with Windows installed
- Basic knowledge to operate Command Prompt
- Text Editor (ie. Atom) (If you don't have Atom installed on your PC, please view the [How to Make a Website with HTML and CSS](#) article)
- To have completed the Progate [Git Study I](#) and [Command Line Study I](#)

Note: This article is for Windows users. Please read [this article](#) if you are using a Mac.

1. Installing Git

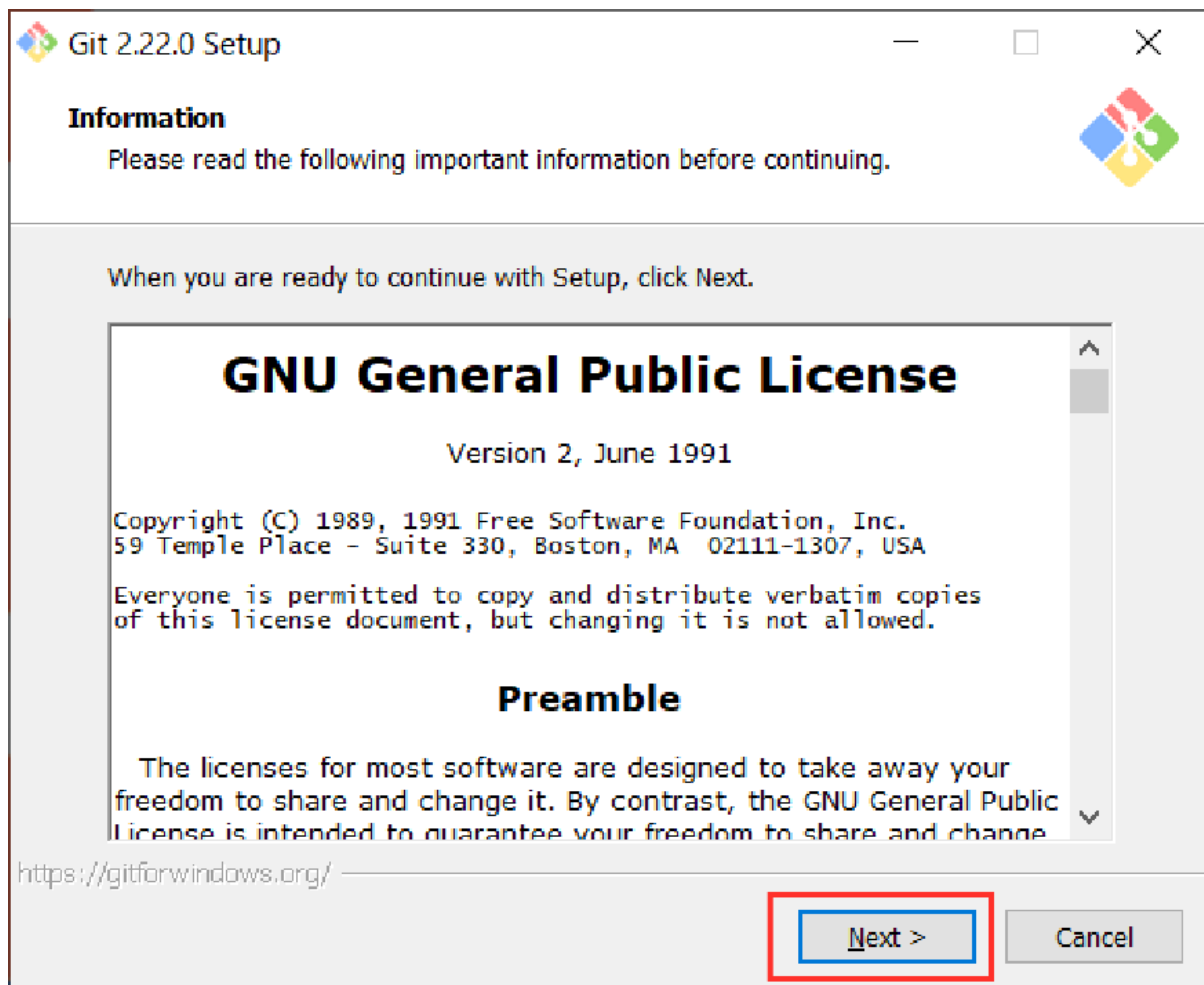
Firstly, let's install Git from [Git for Windows](#).



Git for Windows

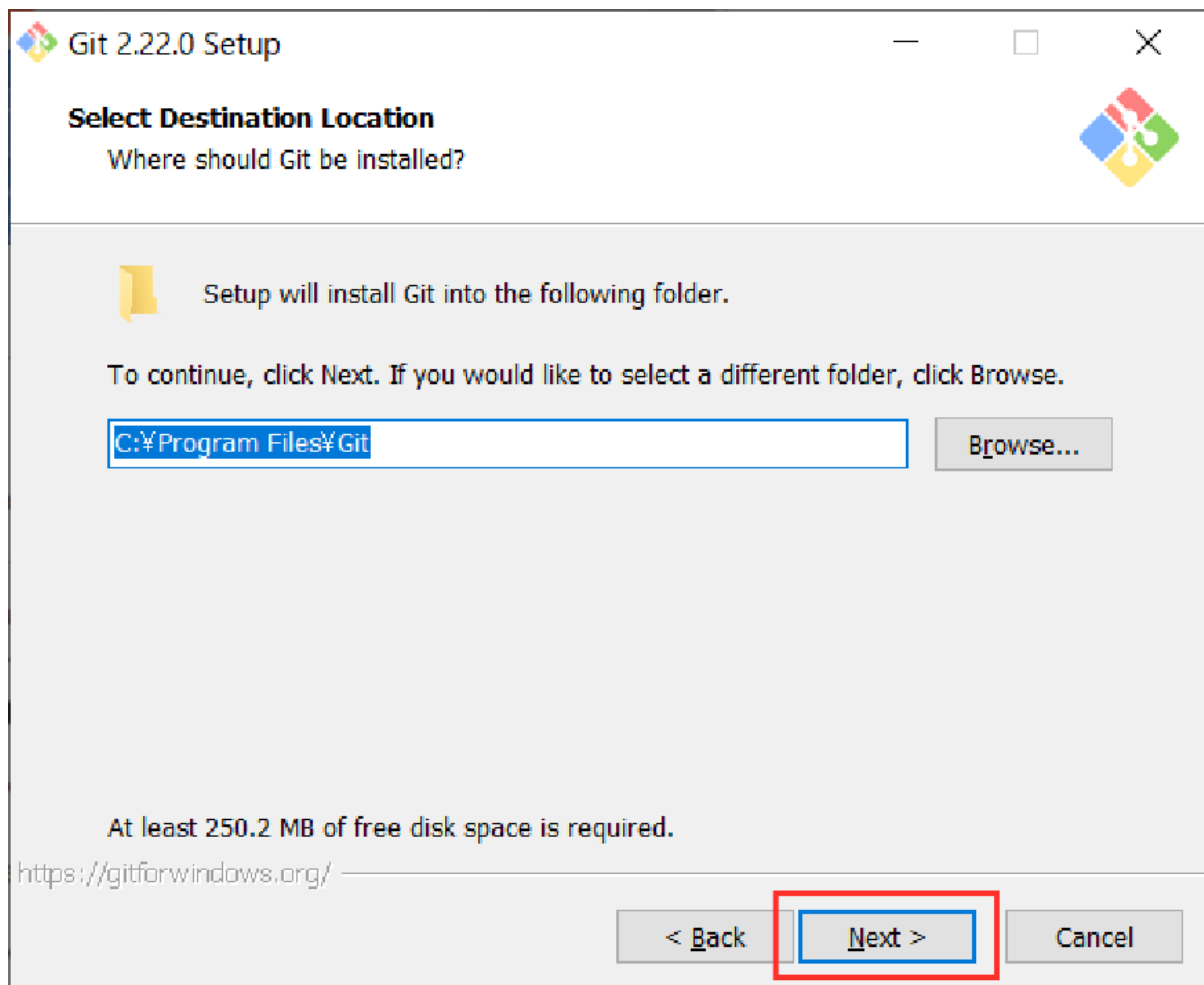
After the download is complete, open the file and an installation screen will pop up. Let's follow the prompts and complete the installation.

Step 1. Once you agree to the terms and conditions, click "Next"



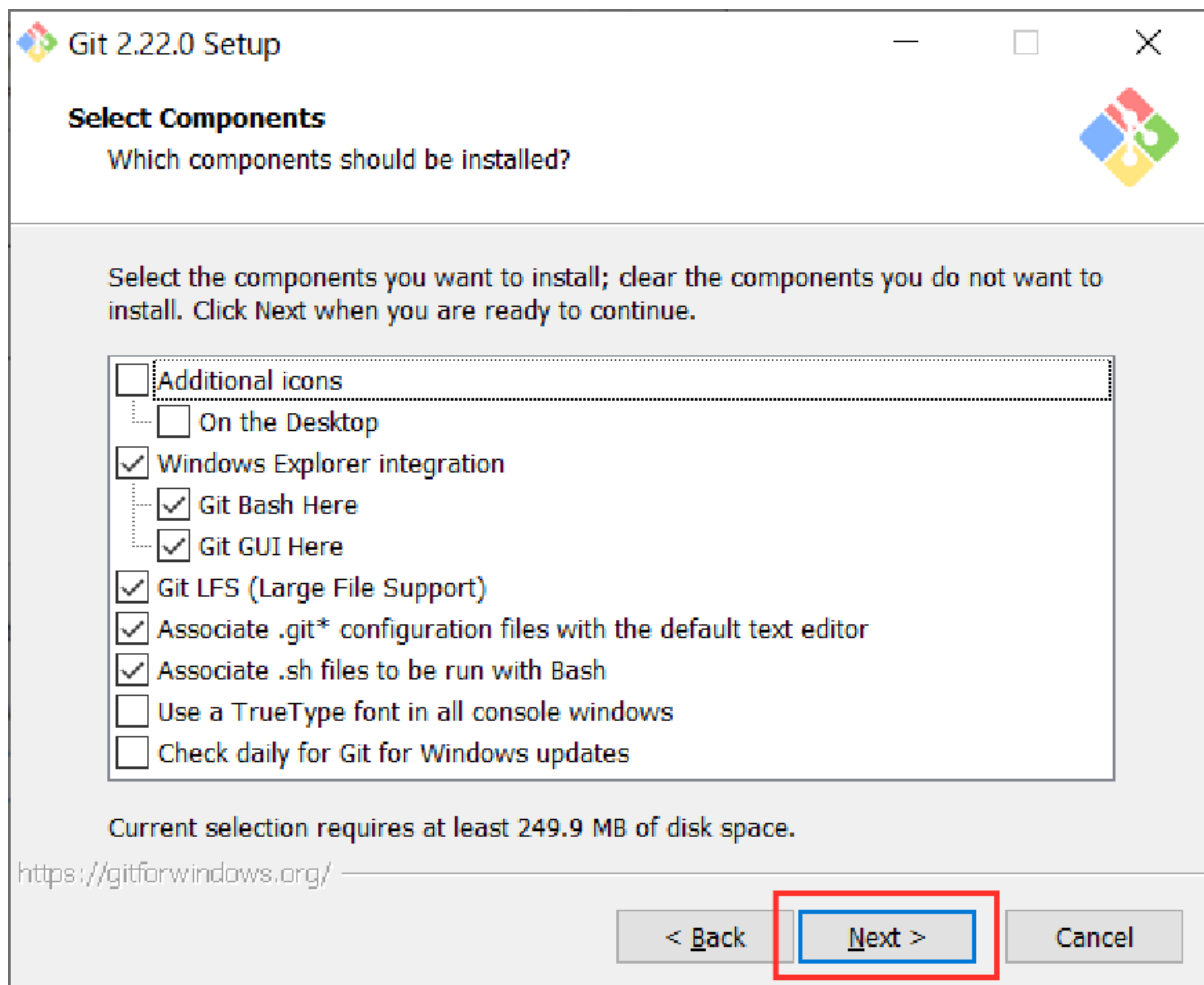
Click "Next"

Step 2. Click "Next"



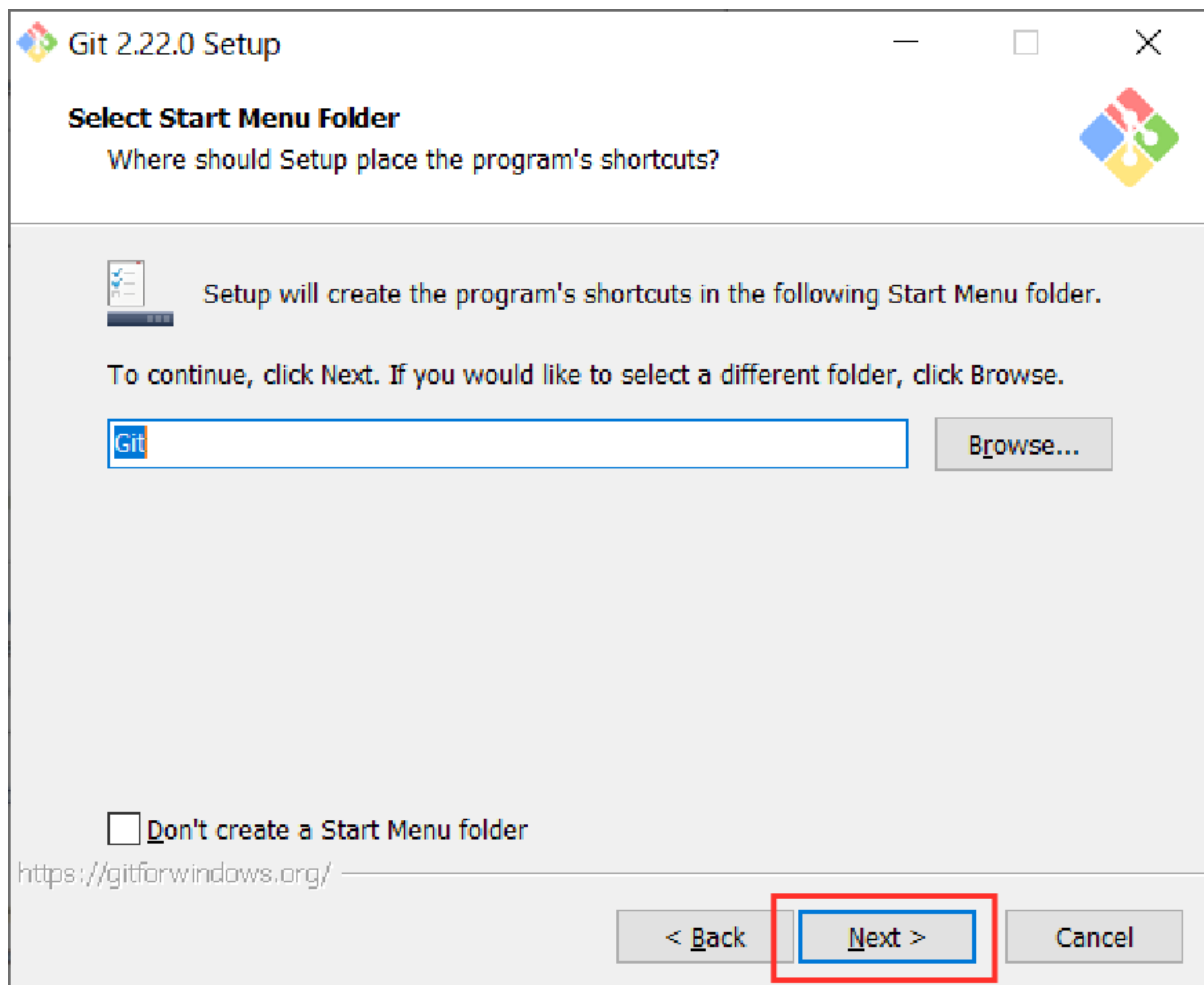
Click "Next"

Step 3. Click "Next"



Click "Next"

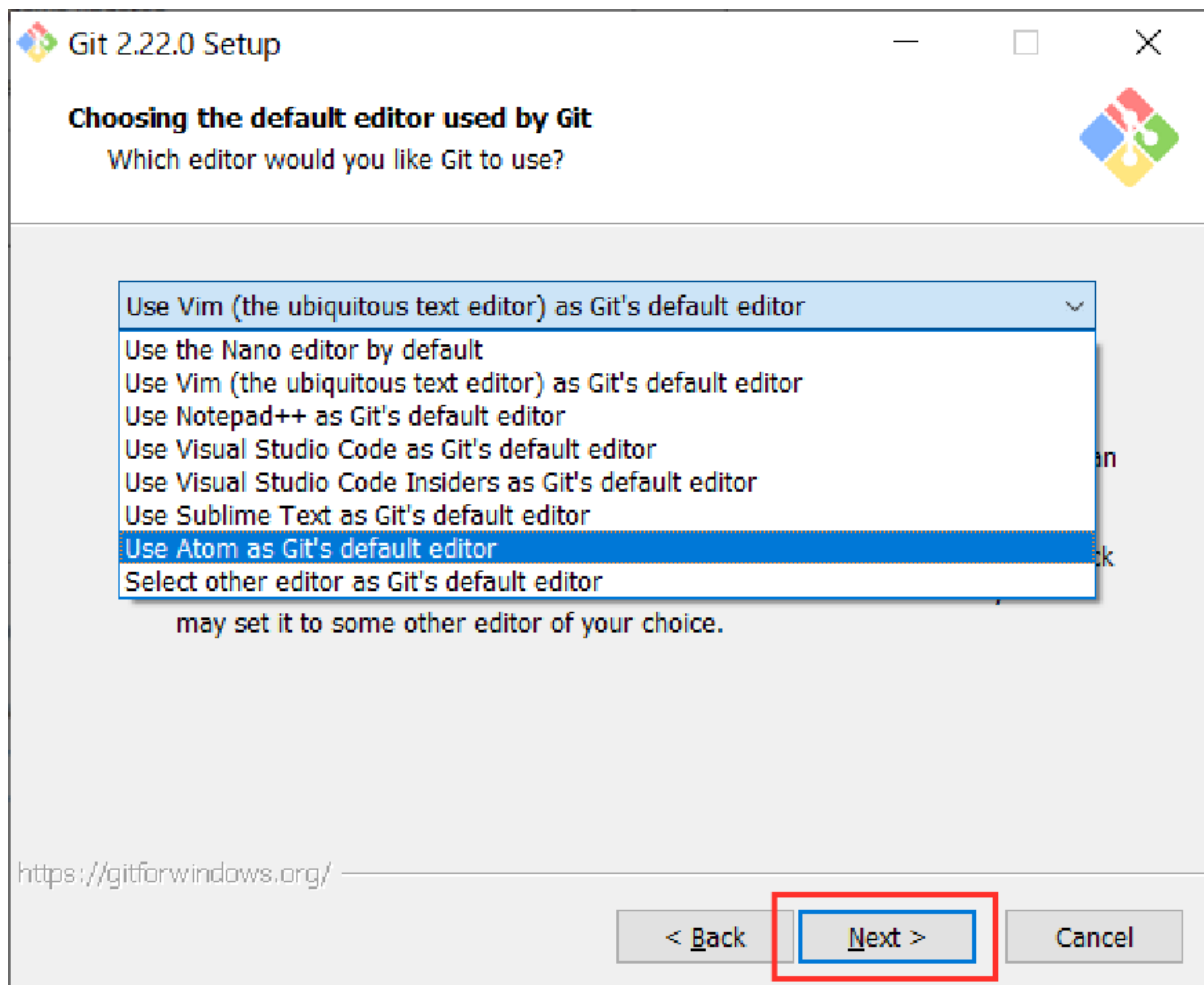
Step 4. Click "Next"



Click "Next"

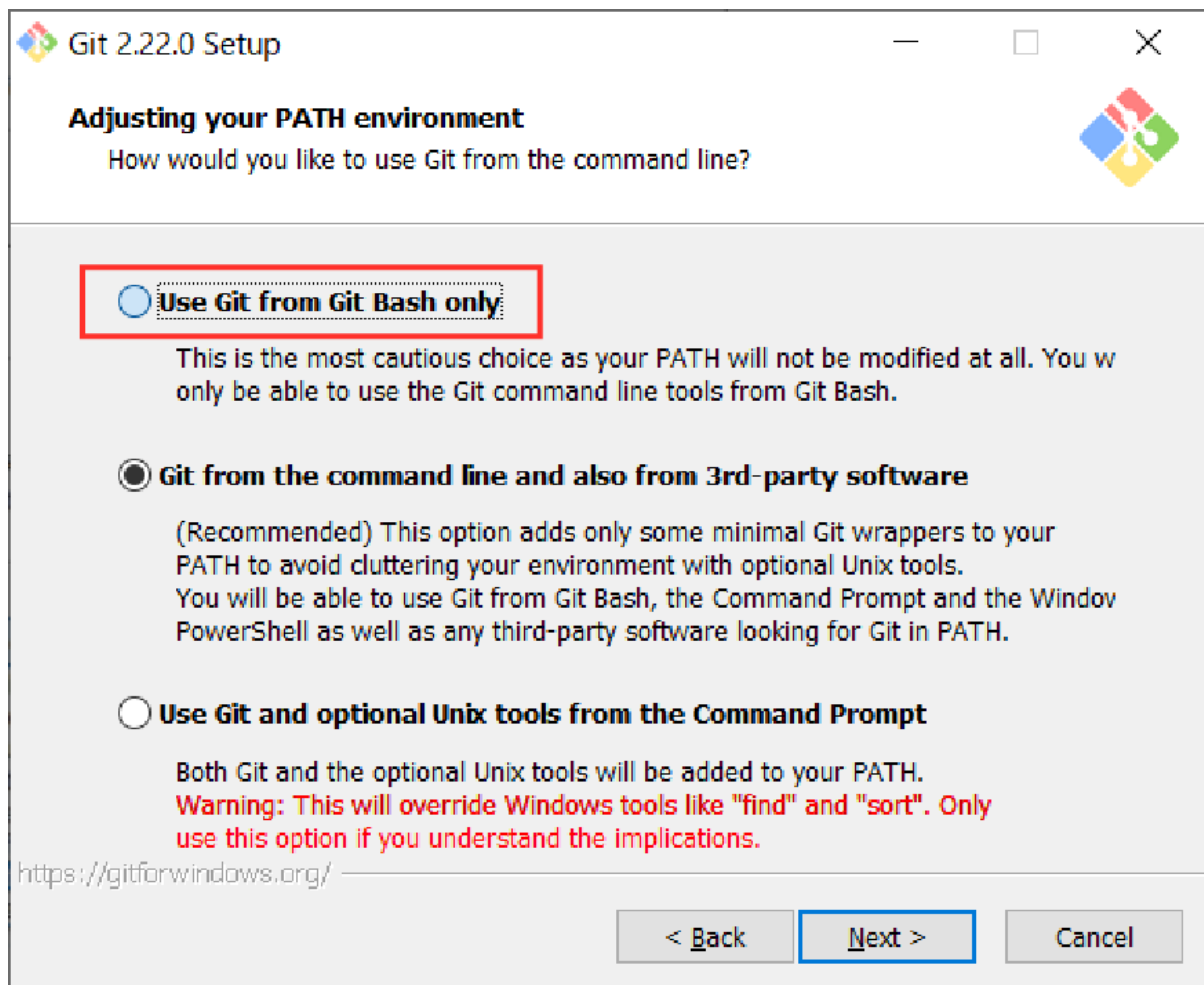
Step 5. We must select the editor. Choose the editor that you will use and click "Next"

(The example below is for Atom)

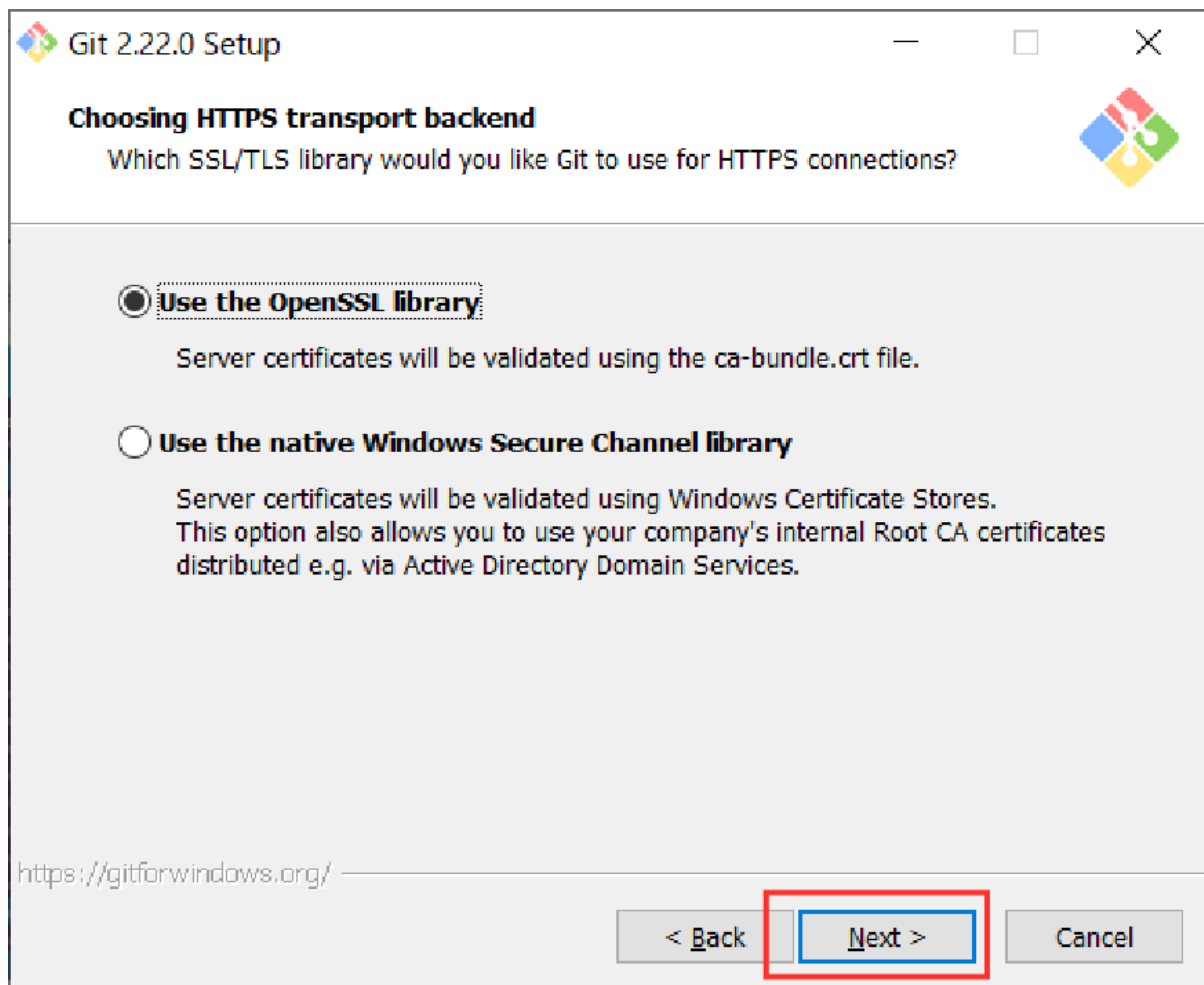


Select the editor and click "Next"

Step 6. Check "Use Git from Git Bash only" and click "Next"



Step 7. Check "Use the OpenSSL Library" and click "Next"



Step 8. Check "Checkout Windows-style, commit Unix-style line endings" and click "Next"

Configuring the line ending conversions

How should Git treat line endings in text files?



☒ **Checkout Windows-style, commit Unix-style line endings**

Git will convert LF to CRLF when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Windows ("core.autocrlf" is set to "true").

☐ **Checkout as-is, commit Unix-style line endings**

Git will not perform any conversion when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Unix ("core.autocrlf" is set to "input").

☐ **Checkout as-is, commit as-is**

Git will not perform any conversions when checking out or committing text files. Choosing this option is not recommended for cross-platform projects ("core.autocrlf" is set to "false").

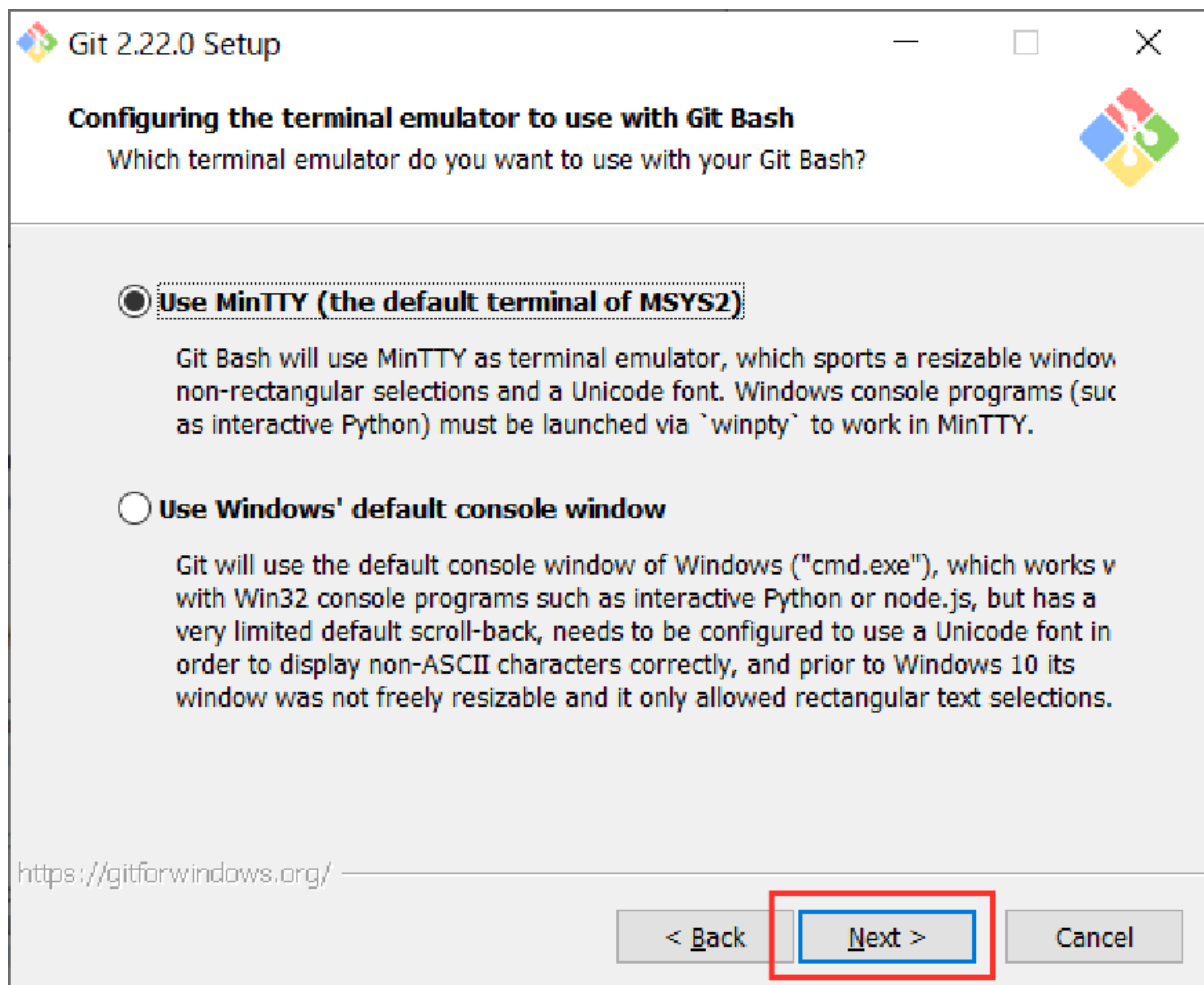
<https://gitforwindows.org/>

< Back

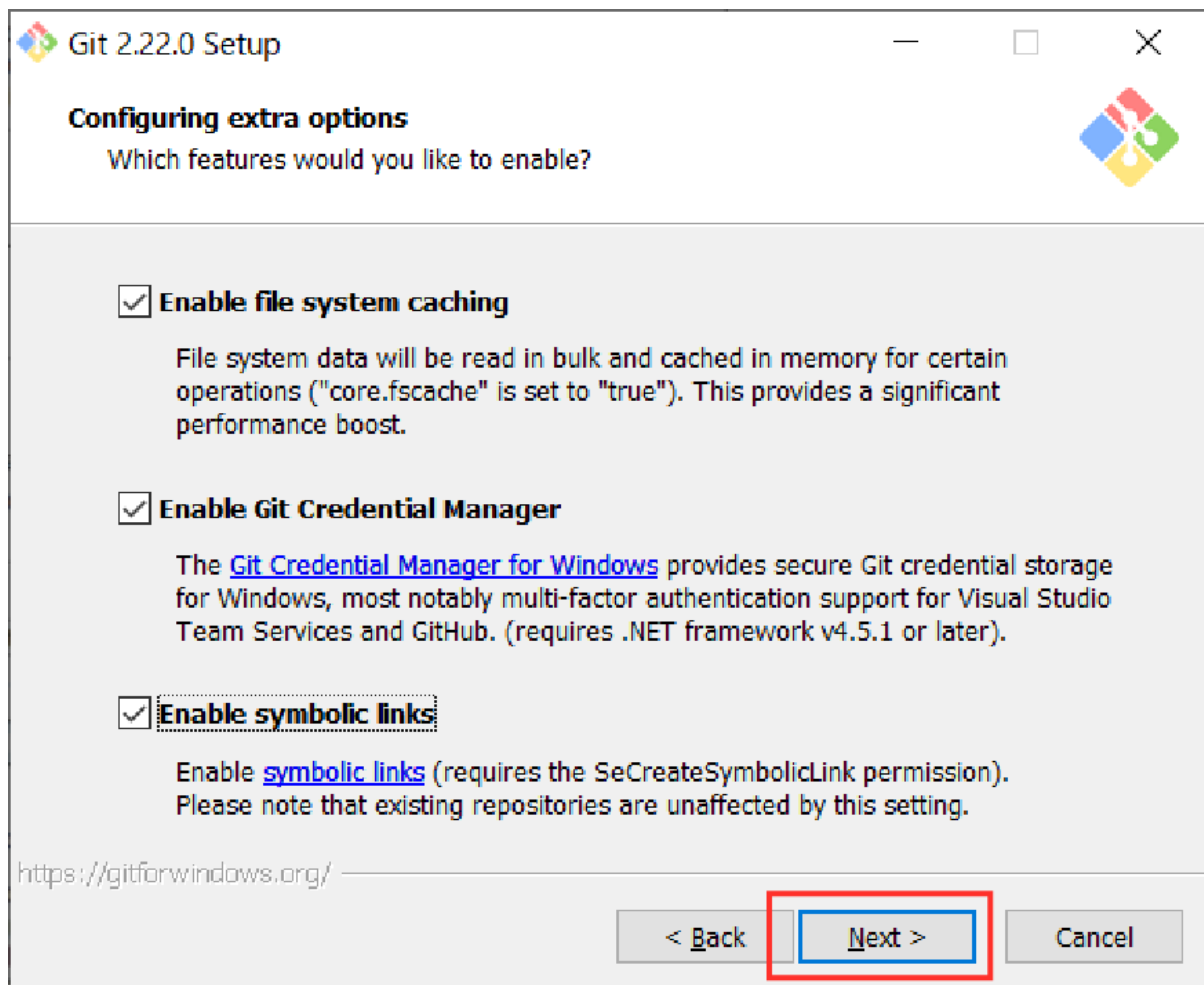
Next >

Cancel

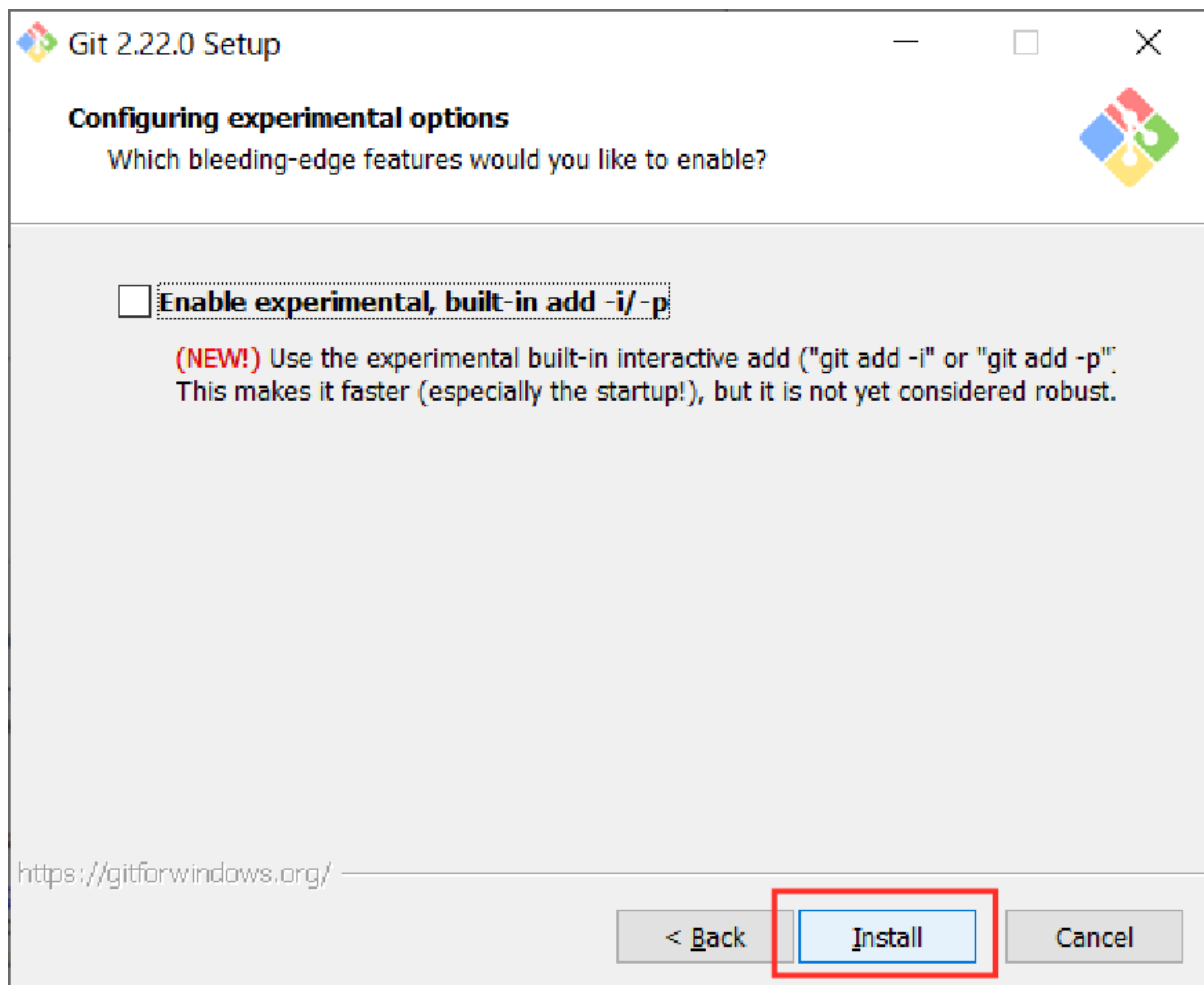
Step 9. Check "Use MinTTY (the default terminal of MSYS2)" and click "Next"



Step 10. Check all of the options and click "Next"

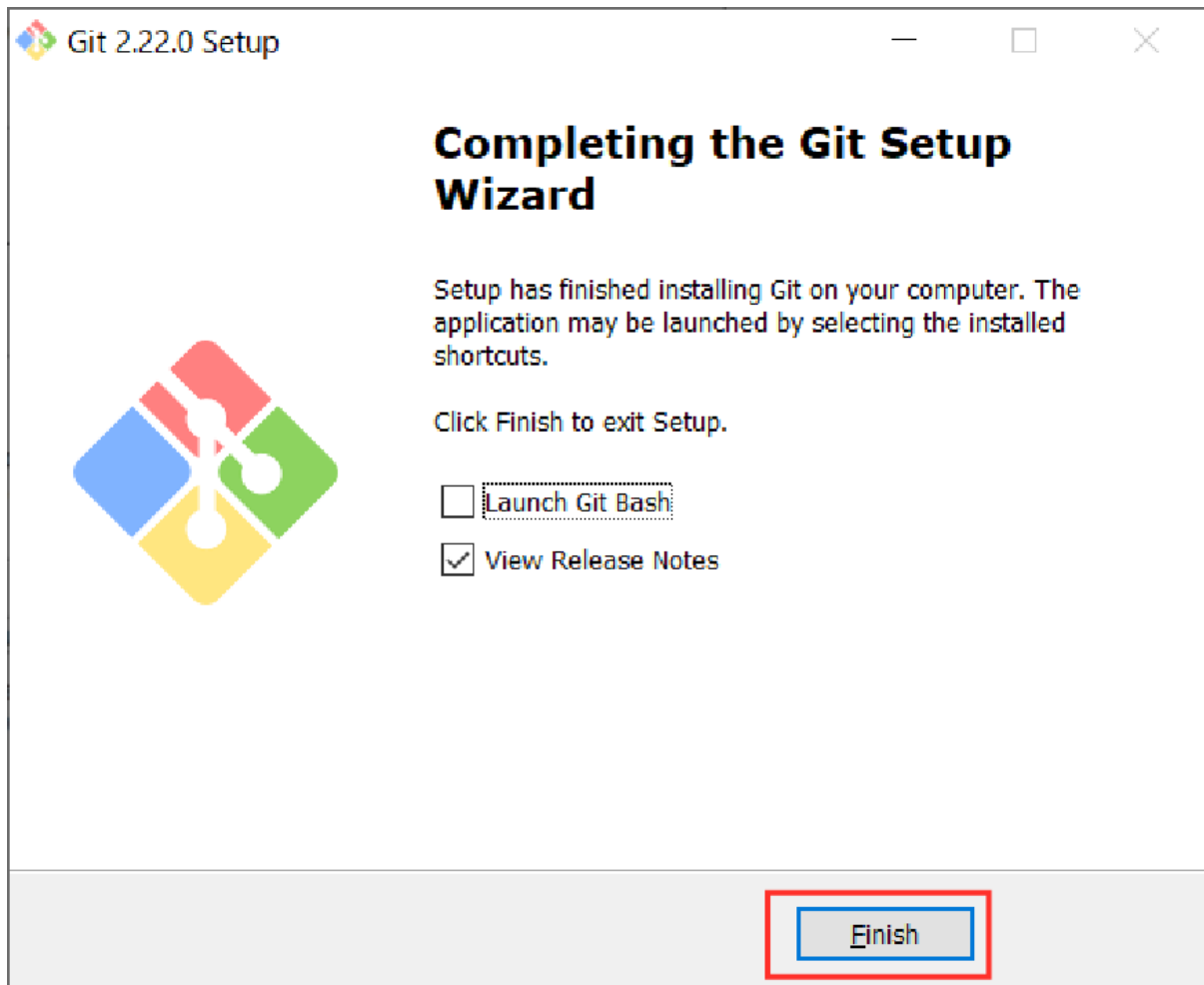


Step 11. Click "Install"

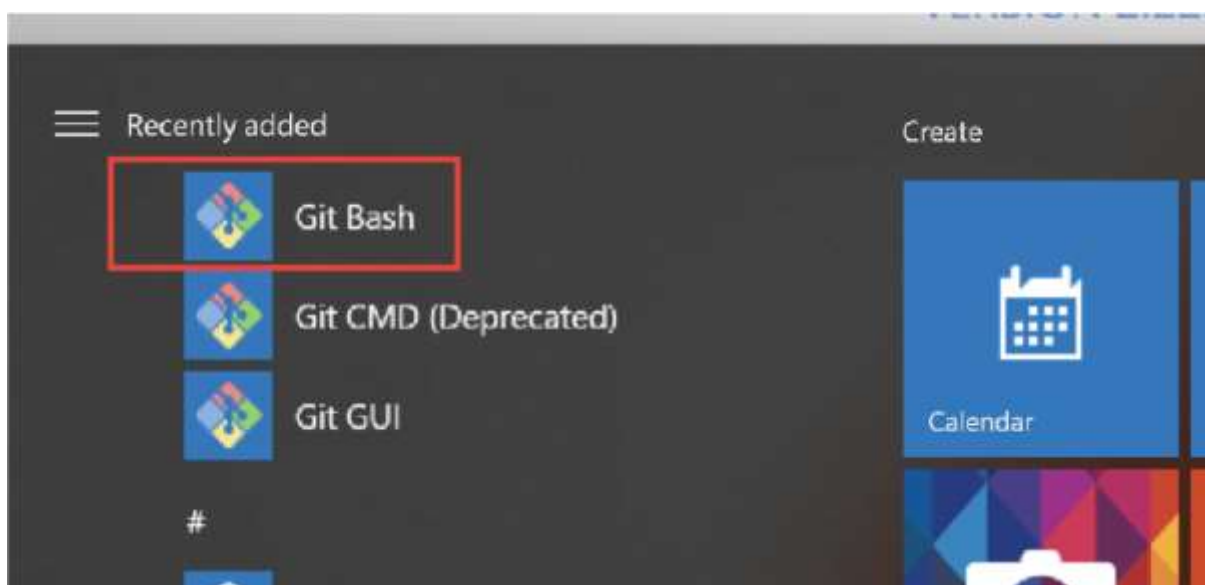


Now the installation will complete.

Step 12. Click "Finish" and you will be able to start using Git!



Now on your PC, there should be an application called **Git Bash** installed. This is a great tool to use for all your future development!



Git Bash has been installed

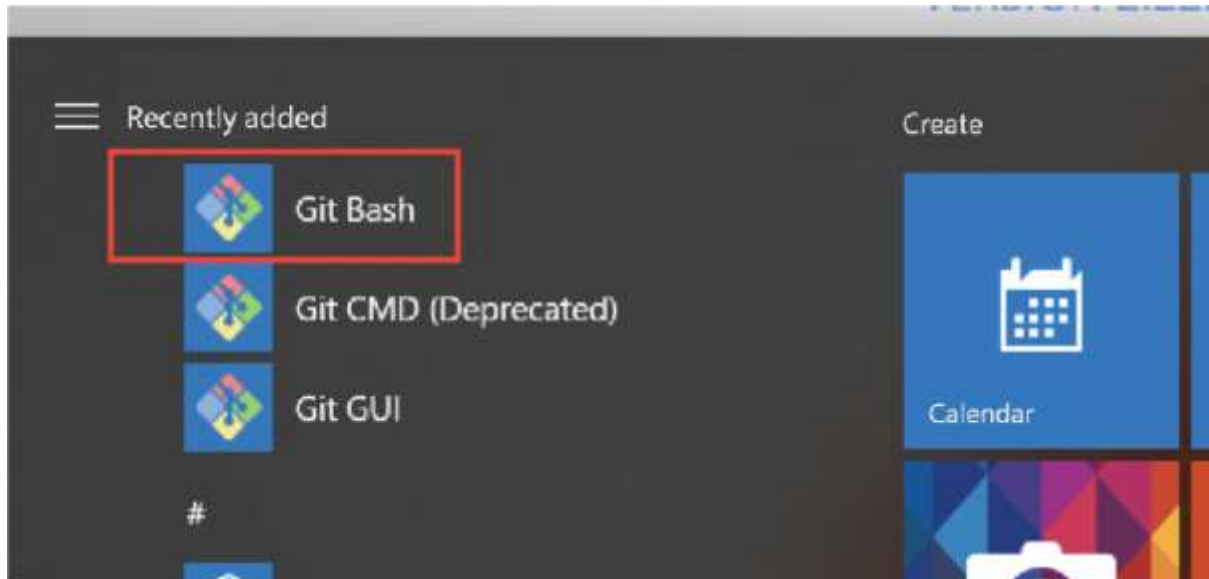
Check

Is Git installed on your PC?

Completed

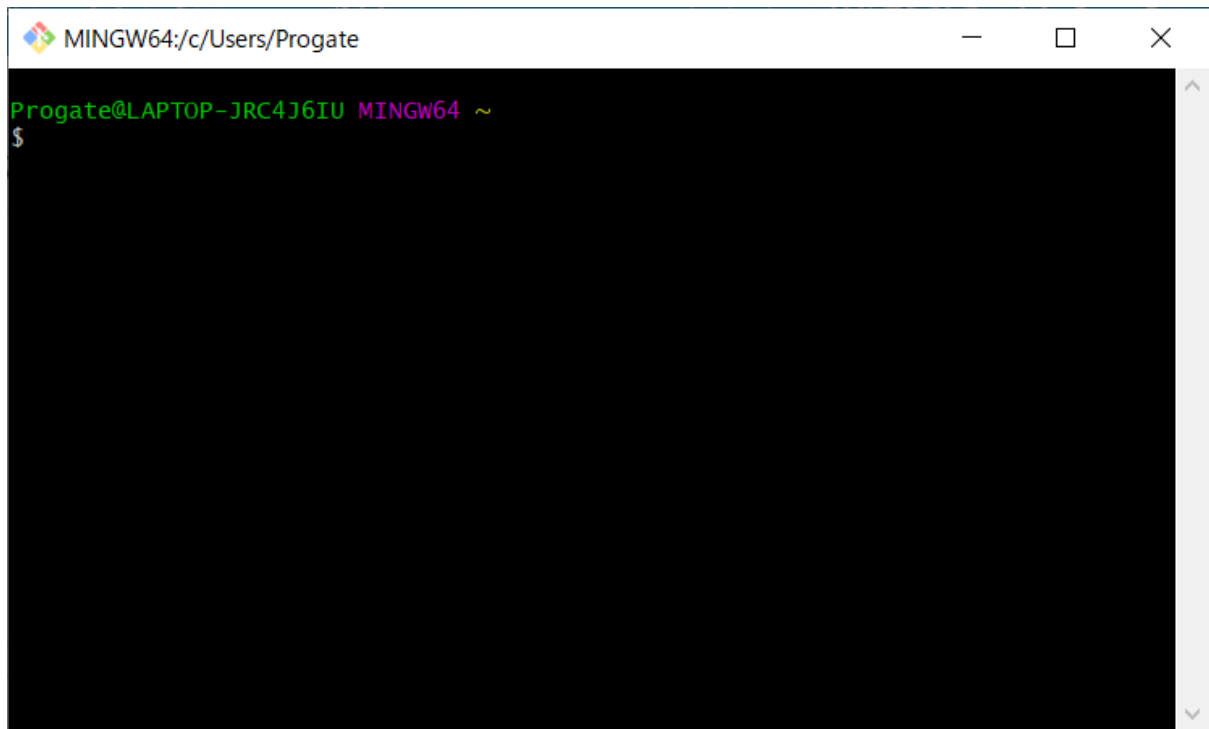
2. Initial Git Setup

First, let's open up **Git Bash**



Open up Git Bash

After it opens, your screen should look like the one below.



Git Bash startup screen

Set up a username and email address

By setting up a username and email address in Git, any commits made will be recorded and you will be able to identify who the commits were created by.

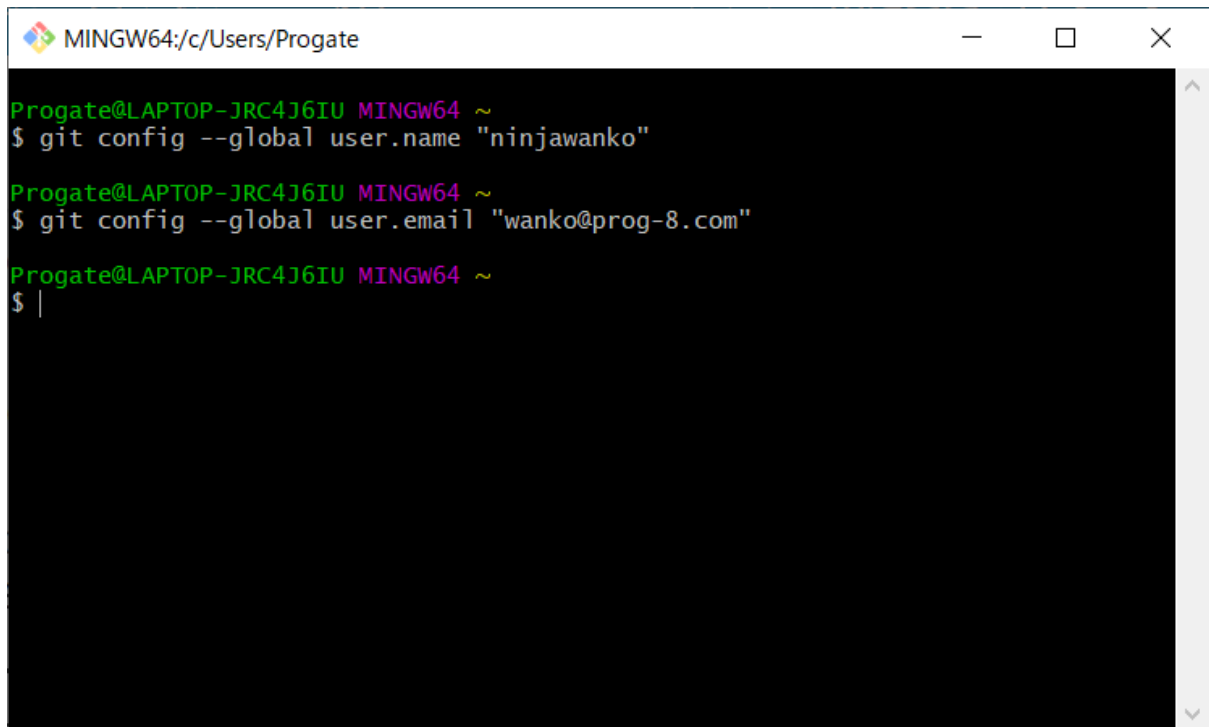
Run the commands below to set up your details:

```
git config --global user.name "username"
```

```
git config --global user.email "email address"
```

(You can choose your own username and email address)

Below is just an example.

A screenshot of a MINGW64 terminal window. The title bar shows the path 'MINGW64:/c/Users/Progate'. The terminal content shows three lines of commands and their prompts: 'Progate@LAPTOP-JRC4J6IU MINGW64 ~' followed by '\$ git config --global user.name "ninjawanko"', another prompt followed by '\$ git config --global user.email "wanko@prog-8.com"', and a third prompt followed by '\$ |'.

```
MINGW64:/c/Users/Progate

Progate@LAPTOP-JRC4J6IU MINGW64 ~
$ git config --global user.name "ninjawanko"

Progate@LAPTOP-JRC4J6IU MINGW64 ~
$ git config --global user.email "wanko@prog-8.com"

Progate@LAPTOP-JRC4J6IU MINGW64 ~
$ |
```

Setting up the user details

Now the initial setup is complete!

Check

Have you successfully setup username and email address?

Completed

3. Setting Up Github

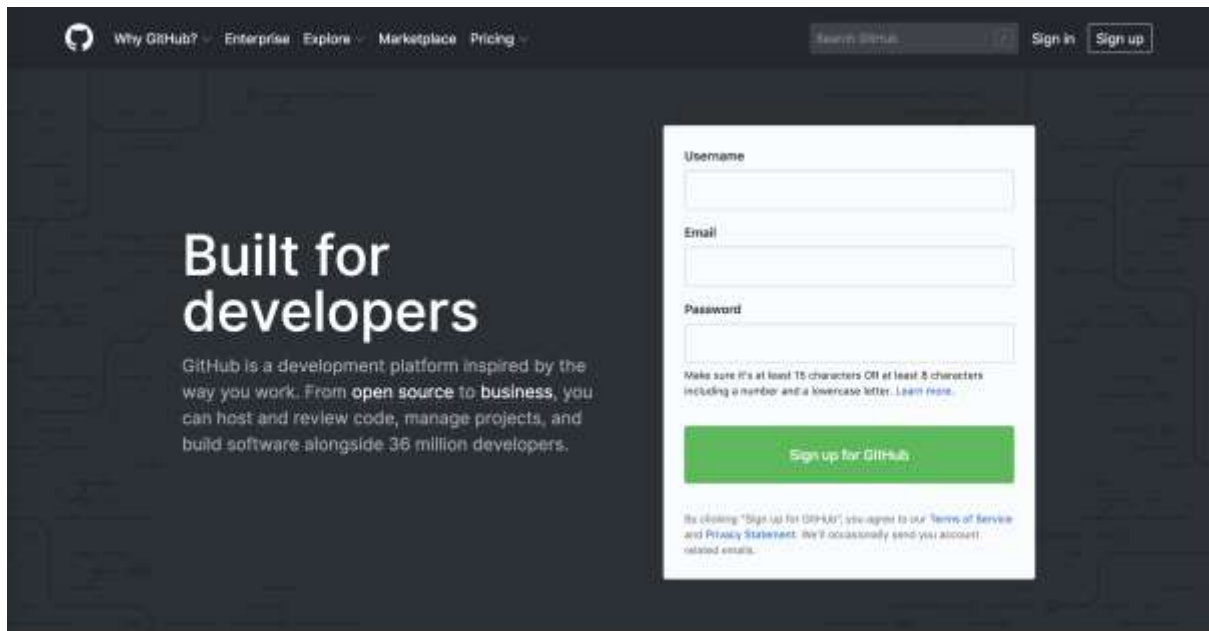
From here, we will be looking at how to add a new remote repository by utilizing a service called Github.

You will create a remote repository like the one Master Wooly prepared for you in **Git Study I**.

Setting up a Github account

In order to utilize Github, let's make an account.

To create an account, visit the [Github Official Page](#)



Get started with GitHub Enterprise


Screen when you access the page

Once you have signed up and followed the prompts, you will be taken to a subscription selection page.

To use Github for free, click the "Free" option and then the "Continue" button at the bottom left.

Choose your subscription

With tools developers love and the world's largest open source community, there's no wrong choice.



Free

The basics of GitHub for every developer

\$0
per month

Includes:

- ∞ Unlimited public and private repositories
- ✓ 3 collaborators for private repositories
- ✓ Issues and bug tracking
- ✓ Project management


Pro

Pro tools for developers with advanced requirements

\$7
per month
(view in JPY)

Includes:

- ∞ Unlimited public and private repositories
- ∞ Unlimited collaborators
- ✓ Issues and bug tracking
- ✓ Project management
- ✓ Advanced tools and insights

Are you a student? Get access to the best developer tools for free with the GitHub Student Developer Pack.

☐ Help me set up an organization next

Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees. [Learn more about organizations](#)

☐ Send me updates on GitHub news, offers, and events

Unsubscribe anytime in your email preferences. [Learn more](#)

[Continue](#)

Subscription option page

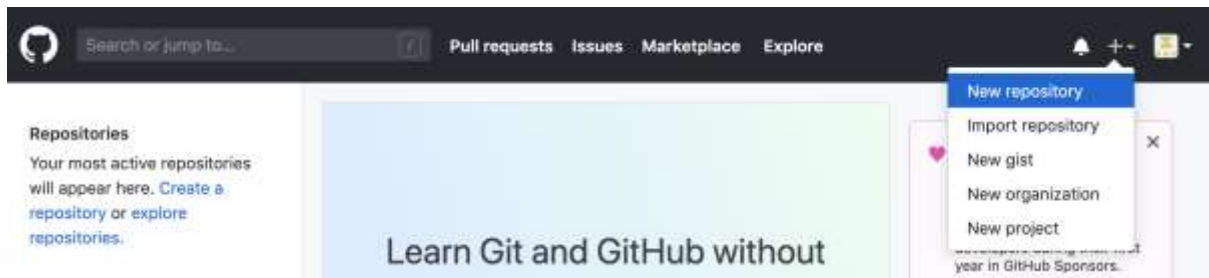
After selecting the subscription you will be asked multiple questions, but you do not need to answer them.

Lastly, click the "Submit" button and your account setup will be complete!

Once you have set up your account, you will receive a verification email. Click on the link attached in the email, and now you will be able to start using your Github account.

Creating a new remote repository

To create a new remote repository, click on the "+" button in the header on the top right.



Creating a new remote repository

After clicking the "+" button, click on "New repository."


By clicking "New repository", you will be navigated to the page below.

Type in a project name where it says "Repository name" and click "Create repository" to create a new remote repository.

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner

 **progate-git** ▾

Repository name

/ mysite ✓

Great repository names are short and memorable. Need inspiration? How about **effective-waffle**.

Description (optional)

☒  **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 let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository

New repository details

Once the remote repository is created, you will be directed to the page below.

Quick setup — if you've done this kind of thing before

 Set up in Desktop or **HTTPS** **SSH**

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# mysite" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/progate-git/mysite.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/progate-git/mysite.git
git push -u origin master
```

The remote repository has been created

Check

Were you able to register GitHub and create a new remote repository?

Completed

4. Pushing to GitHub

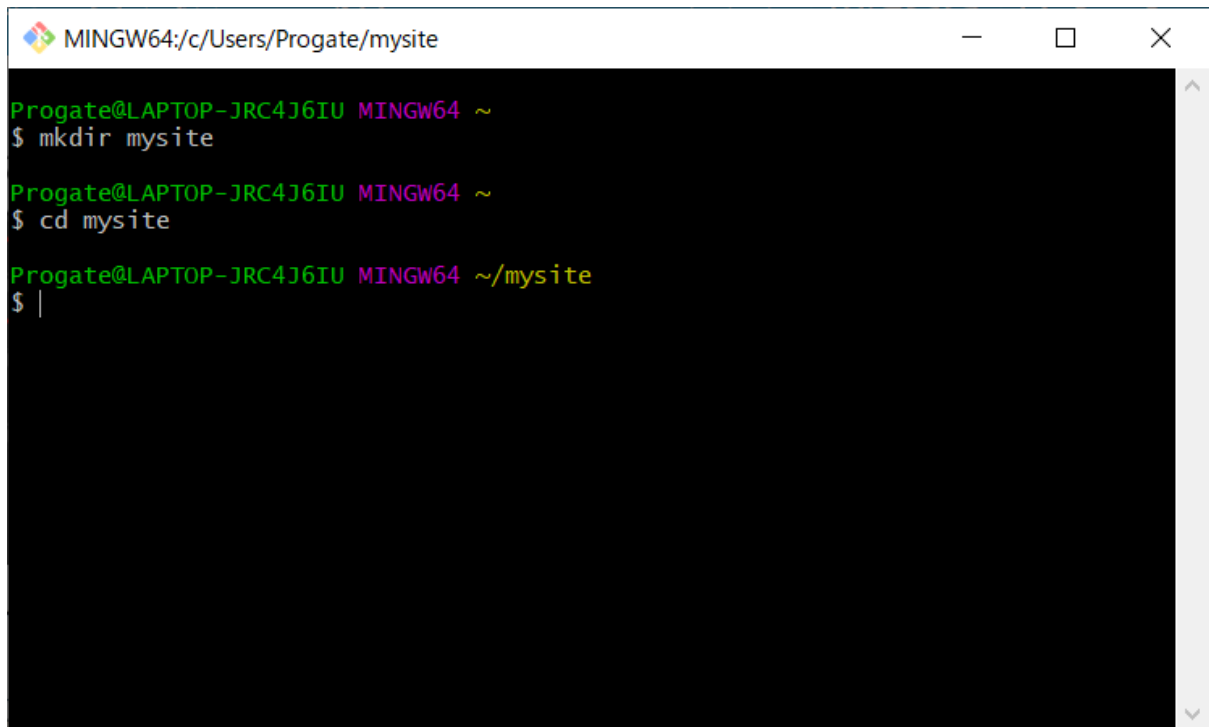
Let's try pushing local repository content to the remote repository we created on GitHub.

Preparing to use Git

Using Git, you must first create a directory and move to that directory by running the following commands:

```
mkdir mysite
```

```
cd mysite
```



```
MINGW64:/c/Users/Progate/mysite

Progate@LAPTOP-JRC4J6IU MINGW64 ~
$ mkdir mysite

Progate@LAPTOP-JRC4J6IU MINGW64 ~
$ cd mysite

Progate@LAPTOP-JRC4J6IU MINGW64 ~/mysite
$ |
```

After running the commands

To be able to manage that file in Git, you must run the following command:

```
git init
```

After you have run the `git init` command, please copy the line starting with "https" as shown below.

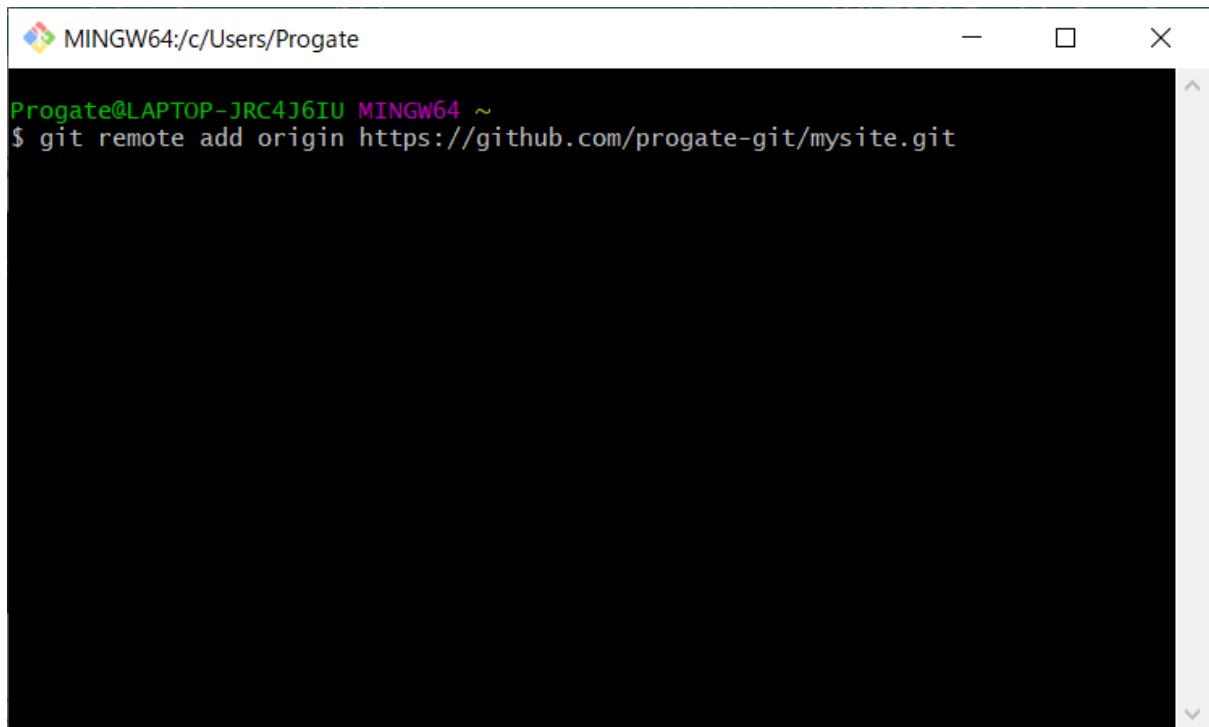


Copy the URL

Once you have copied the line, replace the **<URL>** and run the following command:

```
git remote add origin <URL>
```

This command specifies the remote repository you want to transfer your local repository content from.

A screenshot of a Windows terminal window titled "MINGW64:/c/Users/Progate". The window has standard Windows window controls (minimize, maximize, close) in the top right corner. The terminal shows a prompt "Progate@LAPTOP-JRC4J6IU MINGW64 ~" followed by the command "\$ git remote add origin https://github.com/progate-git/mysite.git".

```
MINGW64:/c/Users/Progate
Progate@LAPTOP-JRC4J6IU MINGW64 ~
$ git remote add origin https://github.com/progate-git/mysite.git
```

Specify the remote repository

Push

Next, in order to push, you must create a file and commit it.

```
touch index.html
```

```
git add index.html
```

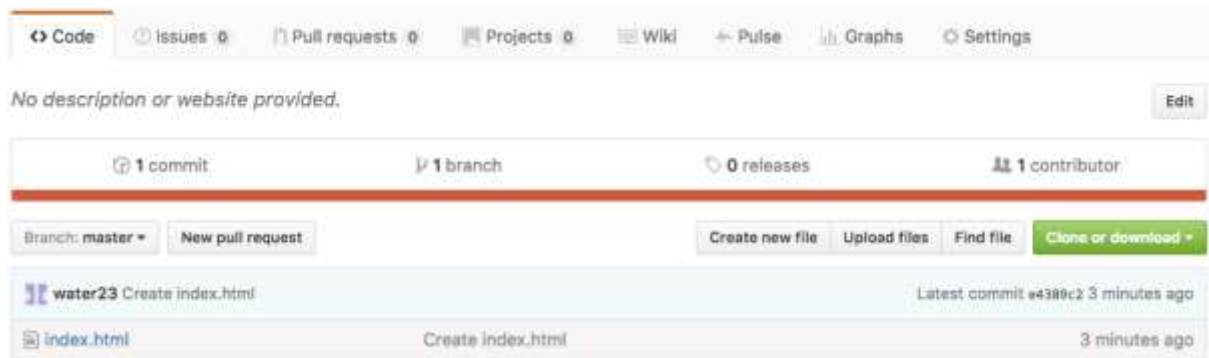
```
git commit -m "Create index.html"
```

Now you will use the "git push" command:

```
git push origin master
```

Let's check if the commit was pushed successfully on GitHub.

You should see an "index.html" file on GitHub if you have done everything correctly.



Check that the commit was pushed

Check

Have you successfully pushed to remote repository?