Lab: GitHub Sign Up and Create Repo

Estimated time: 30 minutes

In this lab, you will get started with GitHub by creating a GitHub account and creating a new repository. You will then add a file to the repository using the GitHub web interface.

Objectives

After completing this lab, you will be able to:

1. Describe GitHub
2. Create a GitHub account
3. Add a project/repository
4. Create and edit a file
5. Upload and commit a file

GitHub overview

Before we learn to use GitHub, let's first review Git. Git is an open-source command-line-based version-control system for software development. While Git is a command-line tool and you also need to host and maintain a server on which you can use Git for versioning.

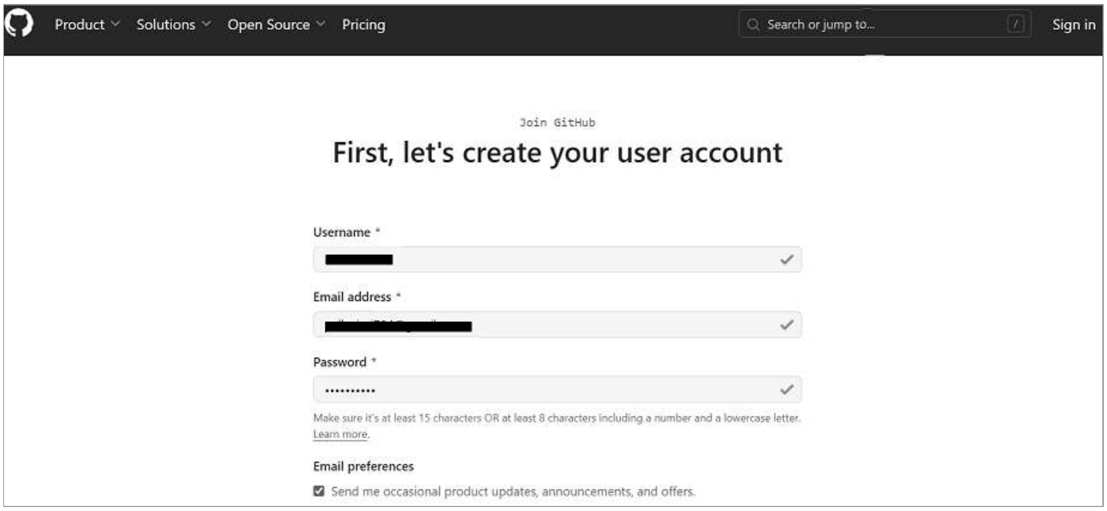
GitHub is a repository hosting service that uses Git. GitHub provides a web-based hosting service with a graphical user interface(GUI) and git command line interface (CLI). It also provides access control and several collaboration features, such as wikis and basic task management tools, for every project. GitHub provides cloud storage for source code, supports all popular programming languages, and streamlines the iteration process. GitHub includes a free plan for individual developers and for hosting open-source projects.

1. Creating a GitHub account

To create an account in GitHub, complete the following steps:

1. Go to the Join GitHub page and create an account. **Note**: If you already have a GitHub account, log in now.

2. Provide the necessary details to create an account as shown below:



Join GitHub

First, let's create your user account

Username *

[redacted]

Email address *

[redacted]

Password *

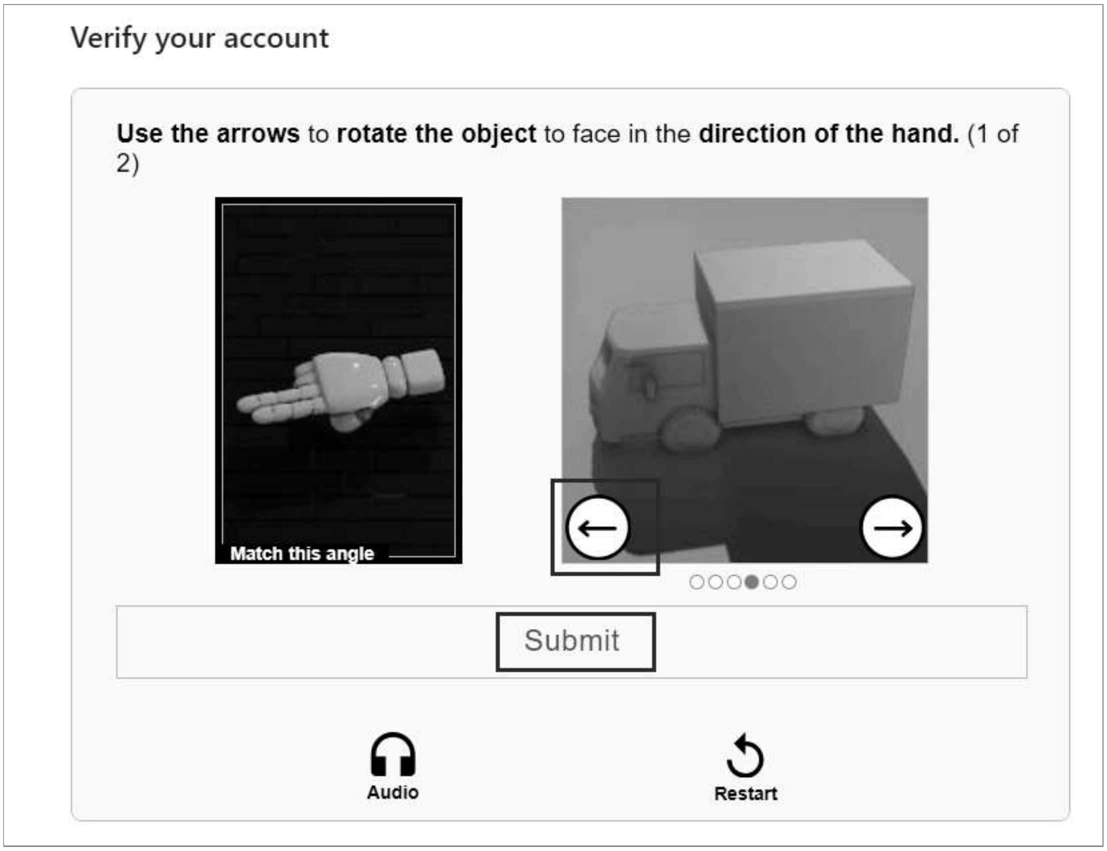
••••••••••

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. Learn more.

Email preferences

☑ Send me occasional product updates, announcements, and offers.

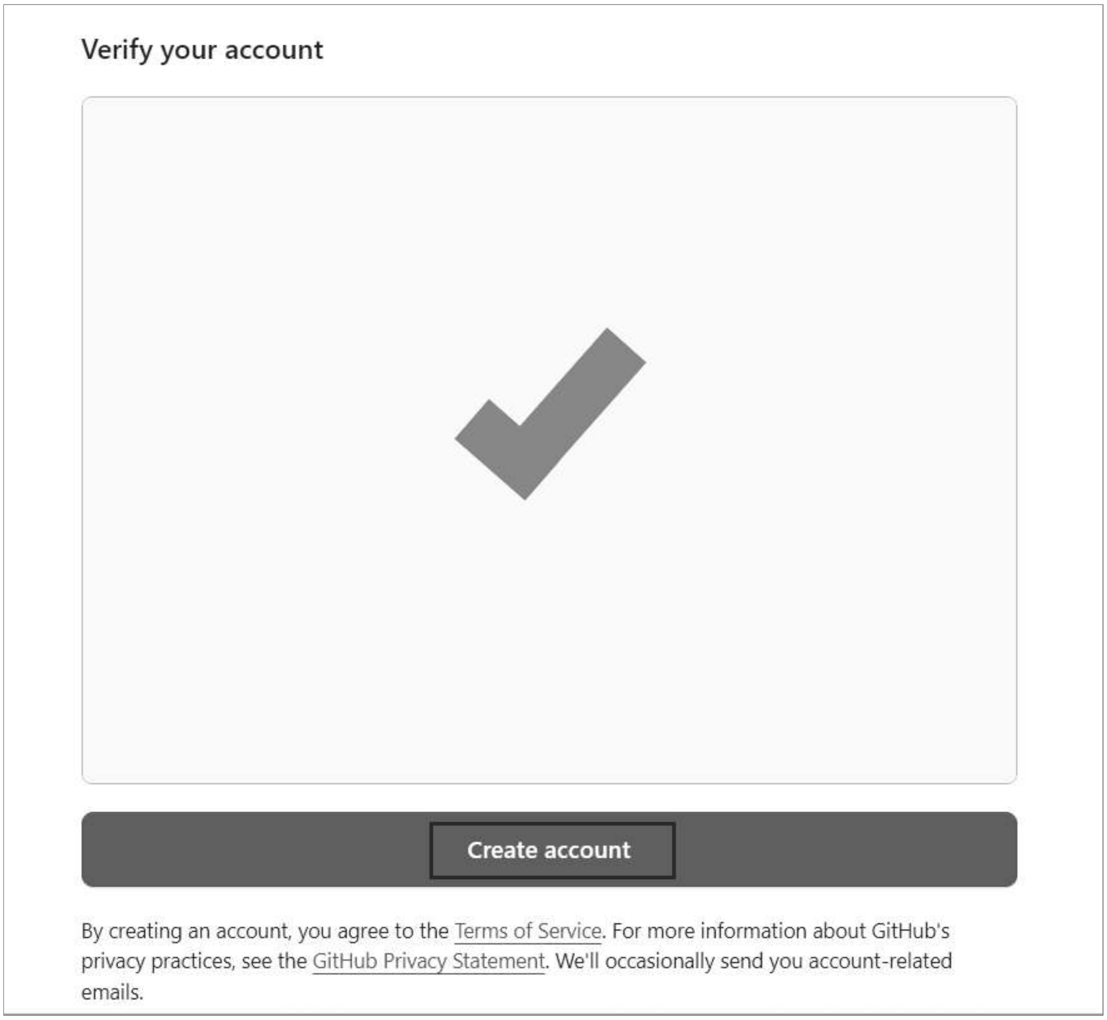
3. Verify the account, and then click **Submit**.



Verify your account

Use the arrows to **rotate the object** to face in the **direction of the hand.** (1 of 2)

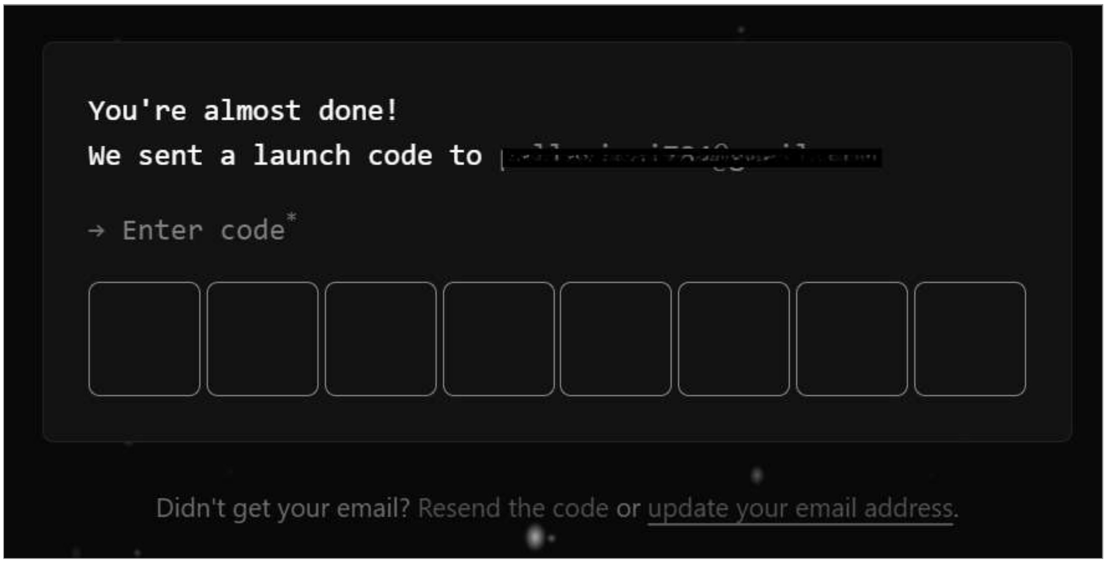
4. When you have finished, click **Create account**.



Verify your account

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related emails.

5. You will receive a verification email from GitHub. Click the enclosed link to verify your email or enter the provided verification code. **Note**: If you do not receive a verification email, click **Resend the code**.

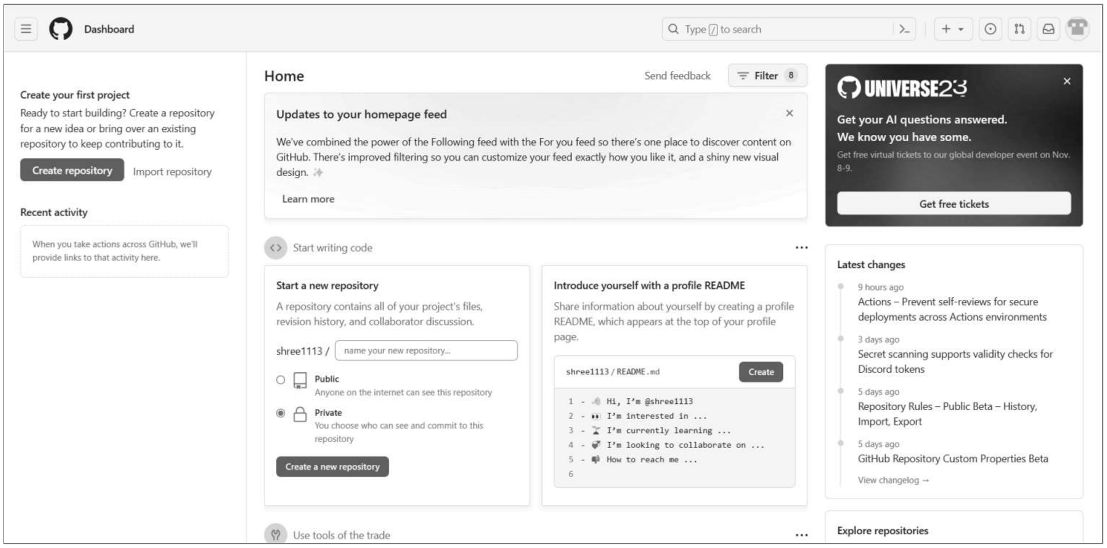


You're almost done!
We sent a launch code to [redacted]

→ Enter code*

Didn't get your email? Resend the code or update your email address.

6. After entering the provided verification code, you will see a screen that looks like this. This indicates that you are logged into your account and you are ready to start using it.



Create your first project

Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

Create repository   Import repository

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Home

Updates to your homepage feed

We've combined the power of the Following feed with the For you feed so there's one place to discover content on GitHub. There's improved filtering so you can customize your feed exactly how you like it, and a shiny new visual design. ✨

Learn more

Start writing code

Start a new repository

A repository contains all of your project's files, revision history, and collaborator discussion.

shree1113 / name your new repository...

○ Public
Anyone on the internet can see this repository

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

Create a new repository

Introduce yourself with a profile README

Share information about yourself by creating a profile README, which appears at the top of your profile page.

shree1113 / README.md   Create

```
- 👋 Hi, I'm @shree1113
- 👀 I'm interested in ...
- 🌱 I'm currently learning ...
- 💞️ I'm looking to collaborate on ...
- 📫 How to reach me ...
```

Use tools of the trade

UNIVERSE23

Get your AI questions answered.
We know you have some.

Get free virtual tickets to our global developer event on Nov. 8-9.

Get free tickets

Latest changes

9 hours ago
Actions – Prevent self-reviews for secure deployments across Actions environments

3 days ago
Secret scanning supports validity checks for Discord tokens

5 days ago
Repository Rules – Public Beta – History, Import, Export

5 days ago
GitHub Repository Custom Properties Beta

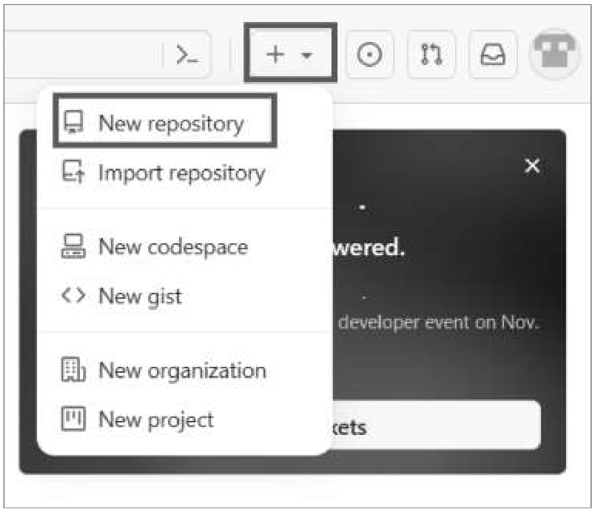
View changelog →

Explore repositories

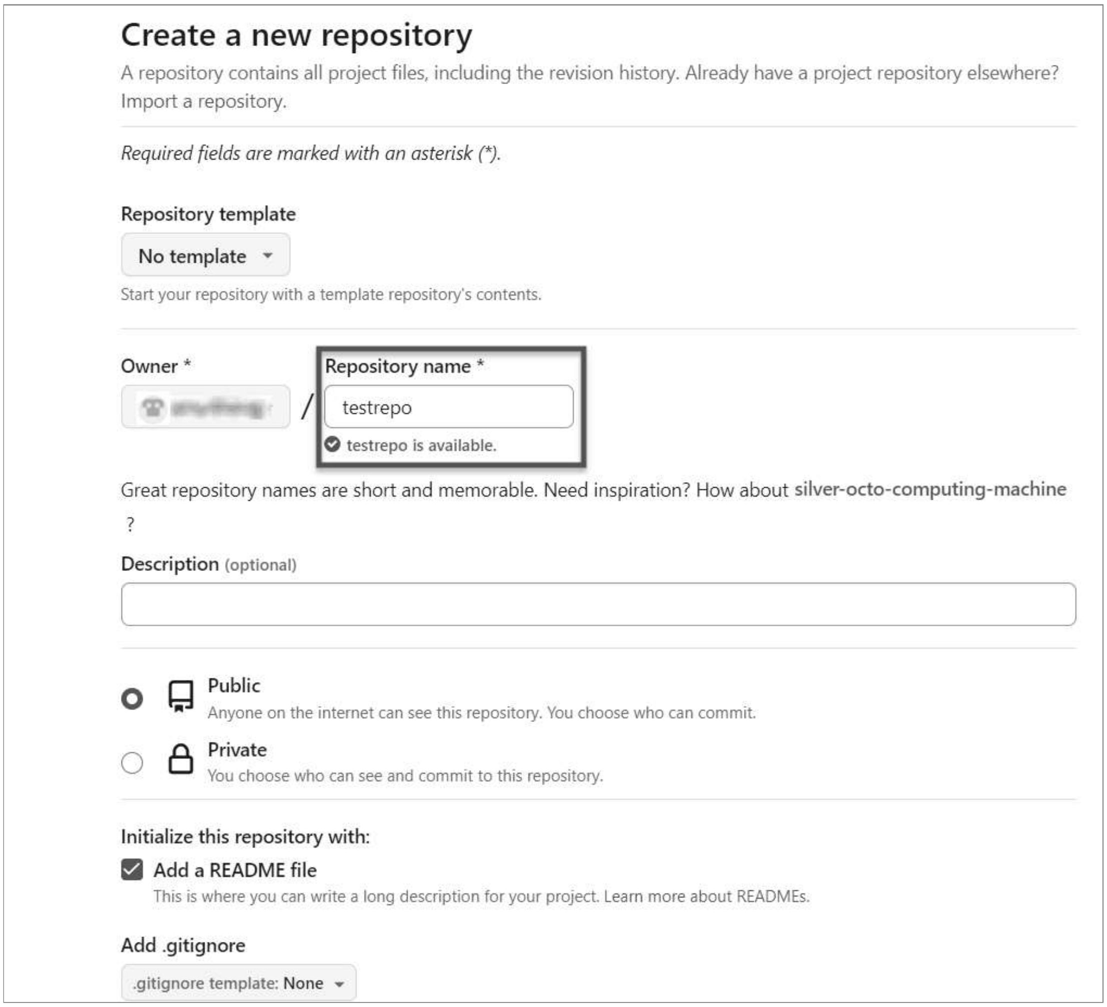
2: Add a project/repository

To add a new repository, complete the following steps:

1. At the top right of the GitHub home page, click on the "+" icon and select **New repository**.



2. Enter a repository name and select the **Add a README file** check box under the **Initialize this repository with:** option.



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Required fields are marked with an asterisk (*).

Repository template

No template ▾

Start your repository with a template repository's contents.

Owner * [redacted] / Repository name * testrepo

✓ testrepo is available.

Great repository names are short and memorable. Need inspiration? How about silver-octo-computing-machine ?

Description (optional)

● 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.

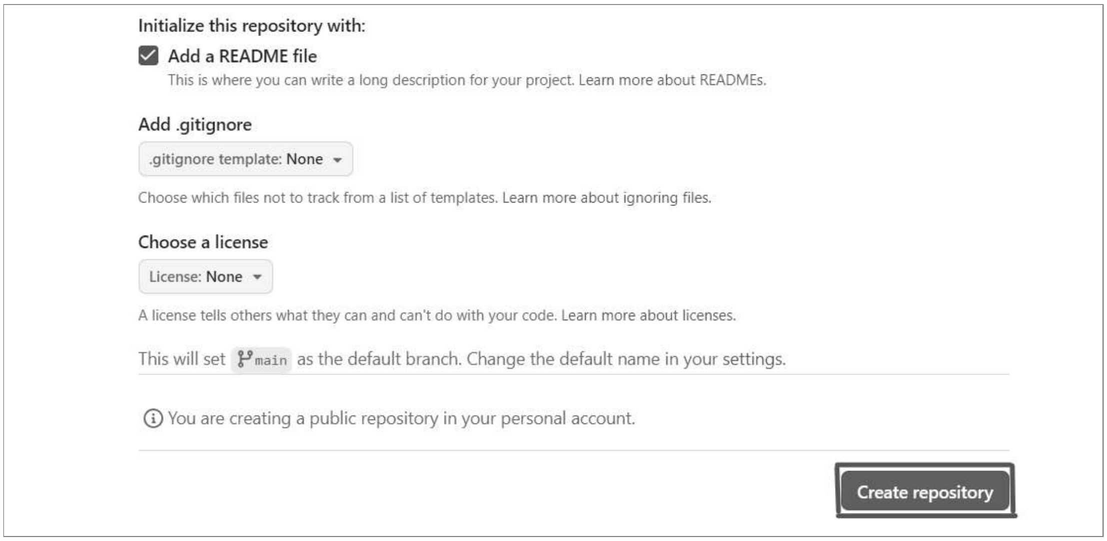
Initialize this repository with:

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

Add .gitignore

.gitignore template: None ▾

3. Click **Create repository**.



Initialize this repository with:

☑ Add a README file

This is where you can write a long description for your project. Learn more about READMEs.

Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. Learn more about ignoring files.

Choose a license

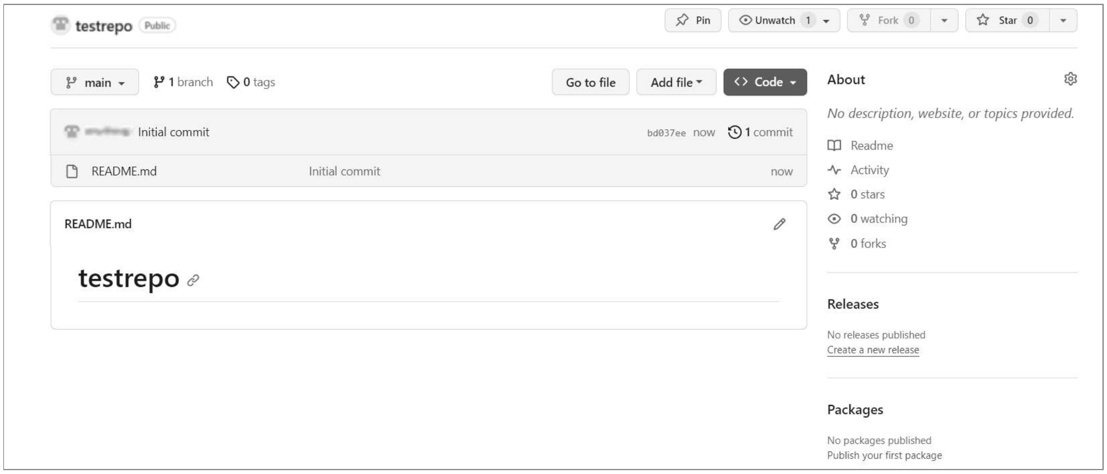
License: None

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

This will set `main` as the default branch. Change the default name in your settings.

ⓘ You are creating a public repository in your personal account.

4. The repository is created and its home page is displayed.



Initial commit		bd037ee now 1 commit
README.md	Initial commit	now

README.md

testrepo

No description, website, or topics provided.

No releases published
Create a new release

No packages published
Publish your first package

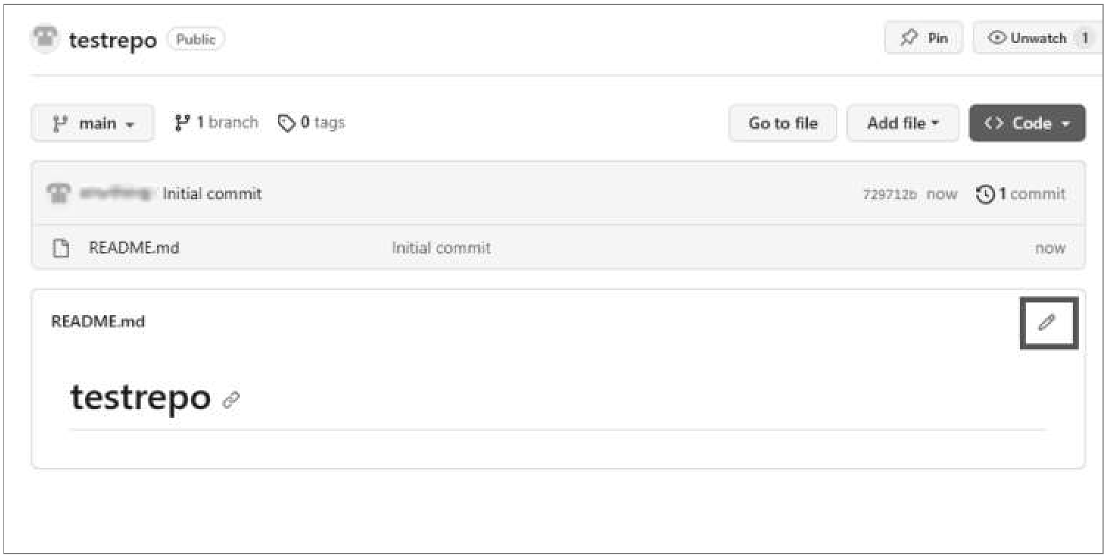
Next, you'll start editing the repository.

3: Create and edit a file

3.1 Edit a file

Although you will normally create a file before you edit it, in this case, the `README.md` file has already been created for you. To edit that file, complete the following steps:

1. Your repository root folder contains just one file: `README.md`. Click the pencil icon at the right to edit the file.

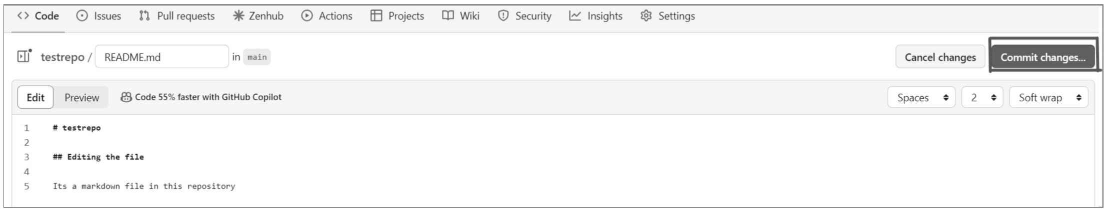


Initial commit		729712b now 1 commit
README.md	Initial commit	now

README.md

testrepo

2. Add "It's a markdown file in this repository" text to the file and go to top right and click Commit changes

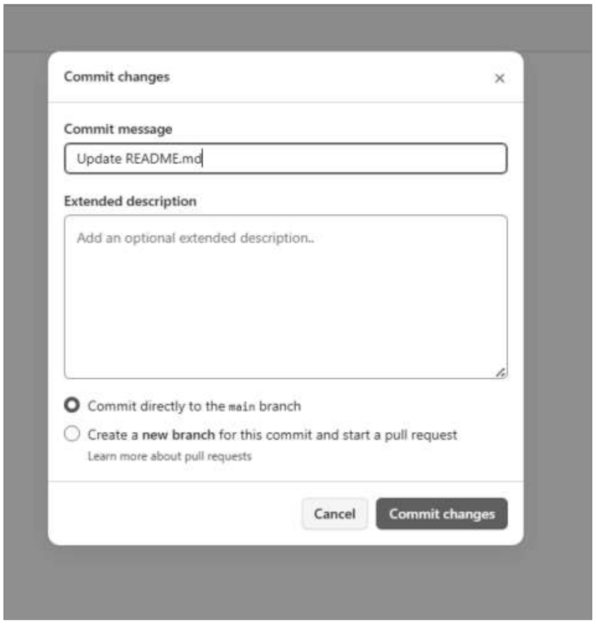


```
# testrepo

## Editing the file

Its a markdown file in this repository
```

3. Add some additional description and click **Commit changes**.



Commit message

Update README.md

Extended description

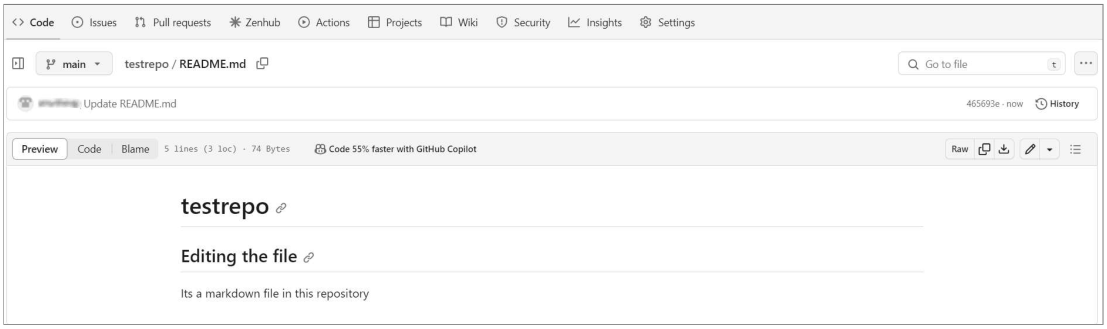
Add an optional extended description..

● Commit directly to the main branch

○ Create a **new branch** for this commit and start a pull request

Learn more about pull requests

4. Confirm that the text you added to the file has been saved.



[redacted] Update README.md 465693e · now

5 lines (3 loc) · 74 Bytes

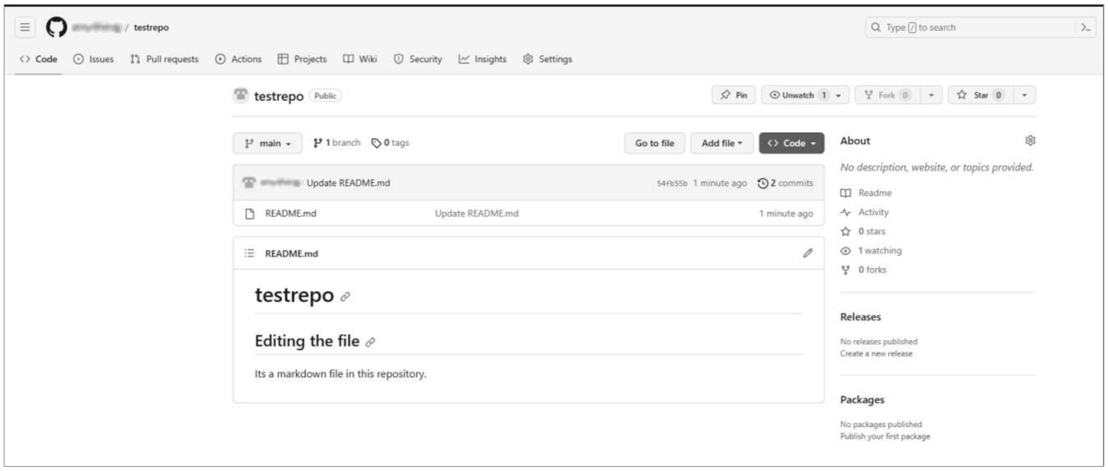
testrepo

Editing the file

Its a markdown file in this repository

3.2 Create a new file

1. Click on the repository name `testrepo` to go back to the main branch.

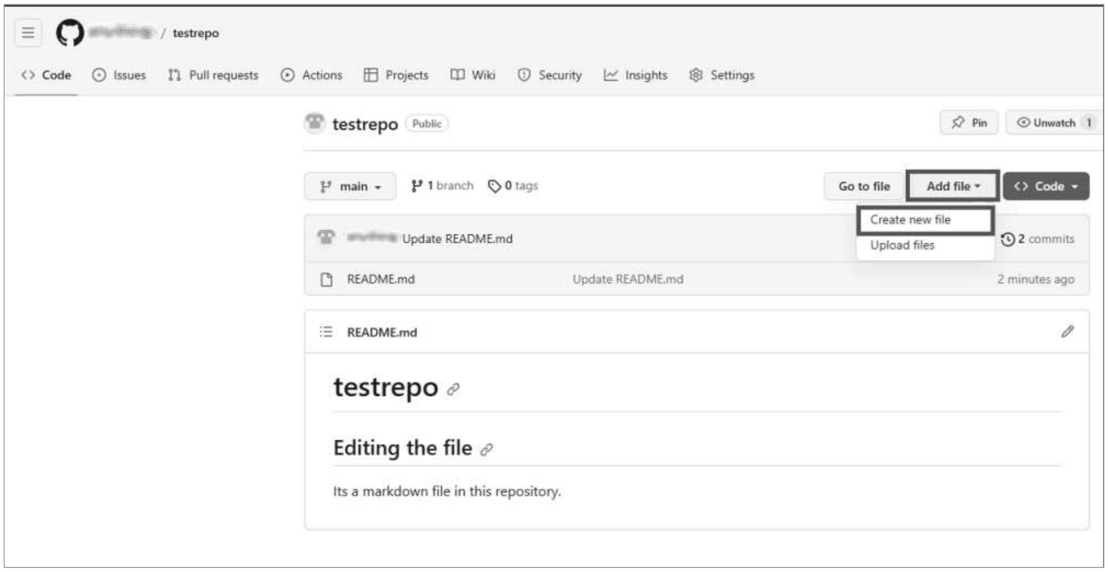


testrepo

Editing the file

Its a markdown file in this repository.

2. Click **Add file** and select **Create new file** to create a new file in the repository.

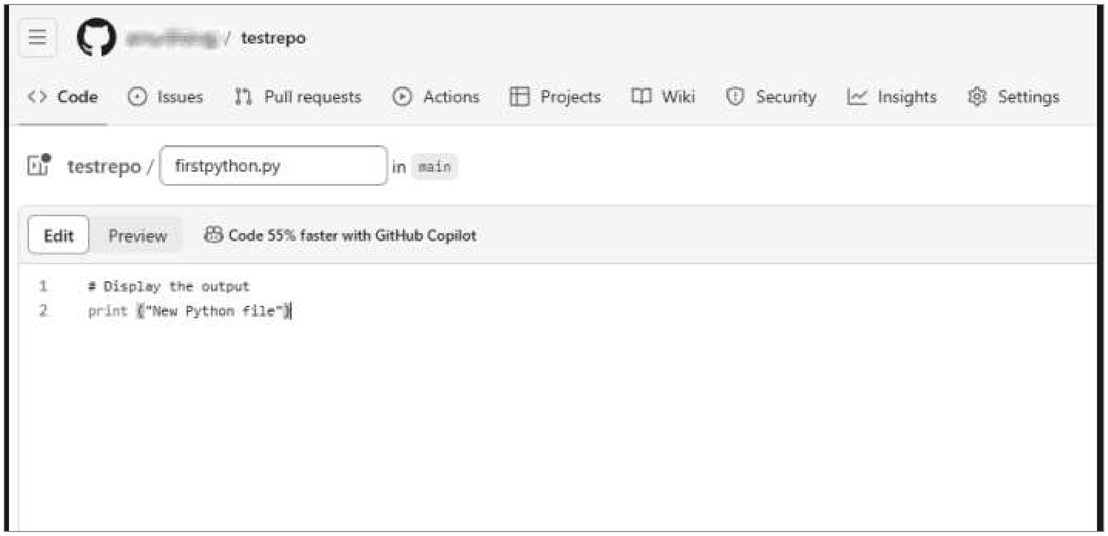


testrepo

Editing the file

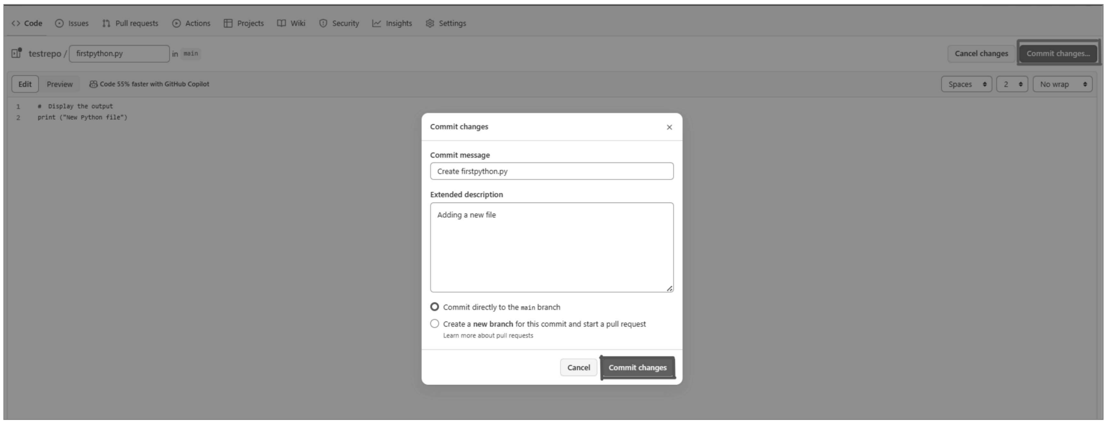
Its a markdown file in this repository.

3. Enter a file name and extension; for example, `firstpython.py`. Add the lines of code displayed in the following image to your file:



```
# Display the output
print ("New Python file")
```

4. Scroll to the top right of the page and click Commit changes.You can optionally add a description of your update (for example, “Adding a new file”). Click **Commit changes** to create your new file.



```
# Display the output
print ("New Python file")
```

Commit changes

Commit message: Create firstpython.py

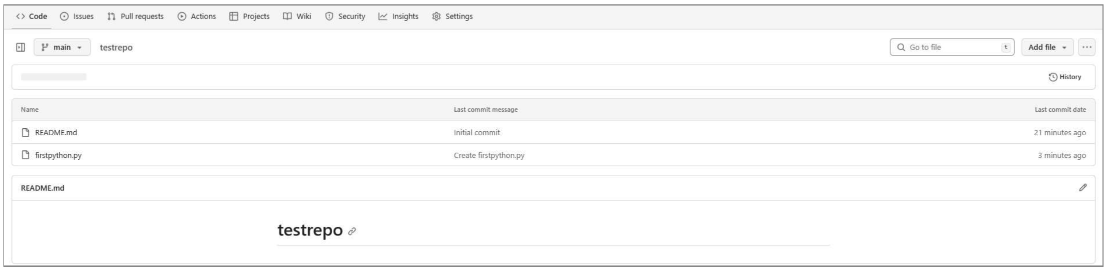
Extended description: Adding a new file

● Commit directly to the main branch

○ Create a **new branch** for this commit and start a pull request

Learn more about pull requests

5. Your file is now added to your repository and the repository listing shows when the file was added or last revised.



Name	Last commit message	Last commit date
README.md	Initial commit	21 minutes ago
firstpython.py	Create firstpython.py	3 minutes ago

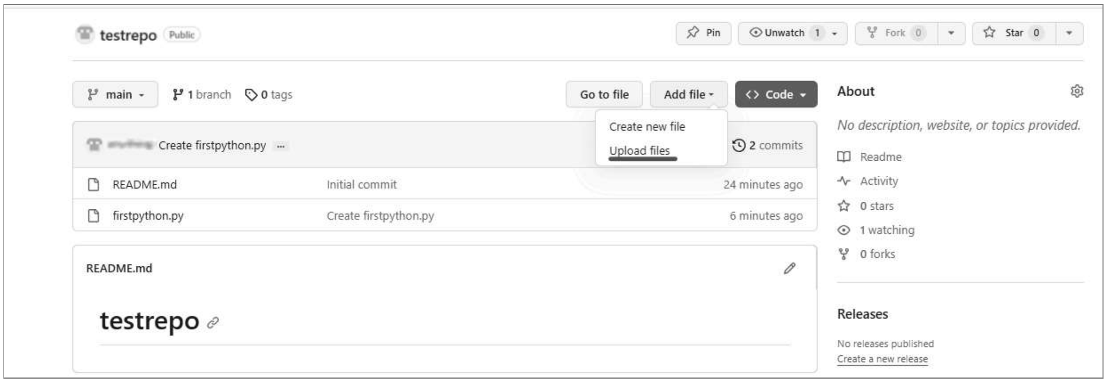
README.md

testrepo

4. Upload and commit a file

To upload a local file and commit it to your repository, complete the following steps:

1. On your repository page, click **Add file** and then select **Upload files** to upload a file.



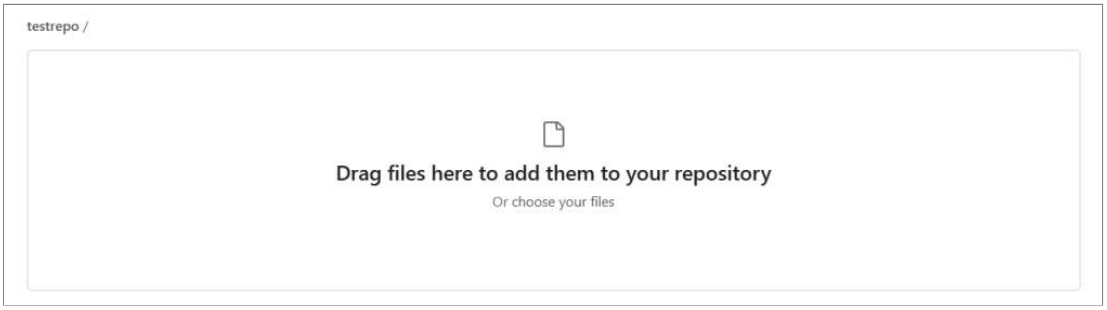
Create firstpython.py ... 2 commits

README.md	Initial commit	24 minutes ago
firstpython.py	Create firstpython.py	6 minutes ago

README.md

testrepo

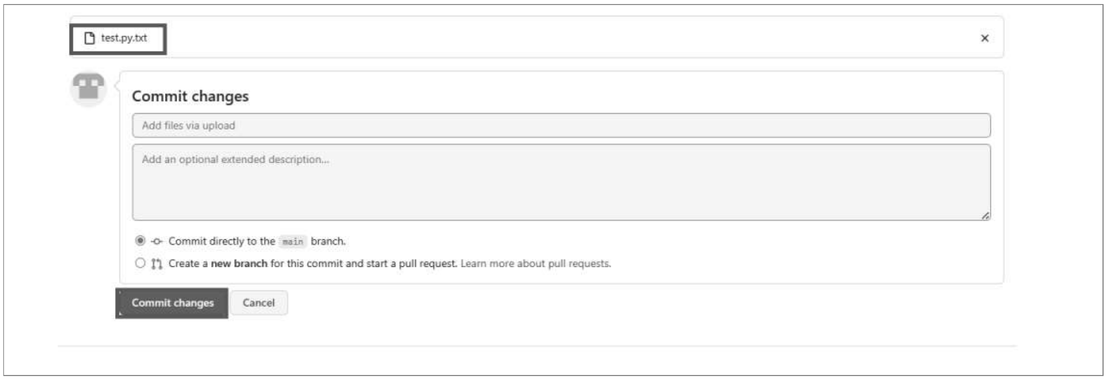
2. Click **choose your files** and choose a file from your computer. You can upload any file (for example, a .txt, .ipynb, or .png file) to the repository.


testrepo /

Drag files here to add them to your repository

Or choose your files

3. When the file finishes uploading, click **Commit changes**.



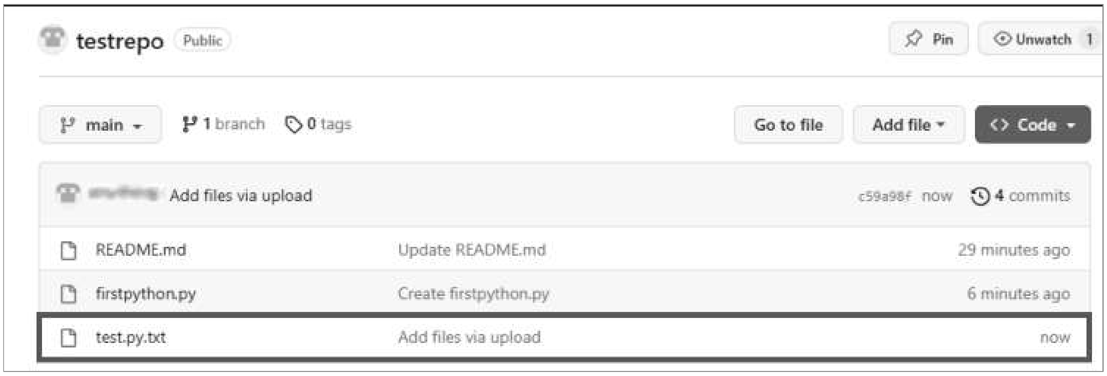
Add files via upload

Add an optional extended description...

● Commit directly to the `main` branch.

○ Create a **new branch** for this commit and start a pull request. Learn more about pull requests.

4. Your file is uploaded to the repository.



[redacted] Add files via upload c59a98f now 4 commits

README.md	Update README.md	29 minutes ago
firstpython.py	Create firstpython.py	6 minutes ago
test.py.txt	Add files via upload	now

Summary

Congratulations! In this lab, you have learned how to create a new repository, add a new file, edit a file, upload a file, and commit your changes. We encourage you to continue to update your repository to become familiar with the processes that you have learned.

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