

Lab: Getting started with GitHub



Skills
Network

Estimated time: 30 minutes

In this lab, you will get started with GitHub by creating a GitHub account and project. You will then add a file to the project using the command line.

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 version-control system for software development. It tracks changes in your files and folders for a project. This collection of folders and files is usually called a repository.

GitHub is a Git repository hosting service, but it adds many of its features. While Git is a command-line tool and you also need to use the command line, GitHub provides the Git server for you, as well as a web-based graphical interface. It also provides access control 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 for 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. When you have finished, click **Create account**.

Create your account

Username *

Email address *

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.

Verify your account

Please solve this puzzle so we
know you are a real person

Verify



Create 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.

3. Click **Verify** to verify the account and then click **Done**.










Verify your account

Please solve this puzzle so we
know you are a real person

Verify

What do you plan to use GitHub for?

(Select up to 3)

| | | |
|---|---|---|
|  Learn to code |  Learn Git and GitHub |  Host a project (repository) |
|  Create a website with GitHub Pages |  Collaborating with my team |  Find and contribute to open source |
|  School work and student projects |  Use the GitHub API |  Other |

I am interested in:

We'll connect you with communities and projects that fit your interests.

For example: `zeplin` `elm` `apm`

Complete setup

6. You will receive a verification email from GitHub. Click the enclosed link to verify your email. **Note:** If you do not receive a



Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to **Your email address**

[Resend verification email](#)

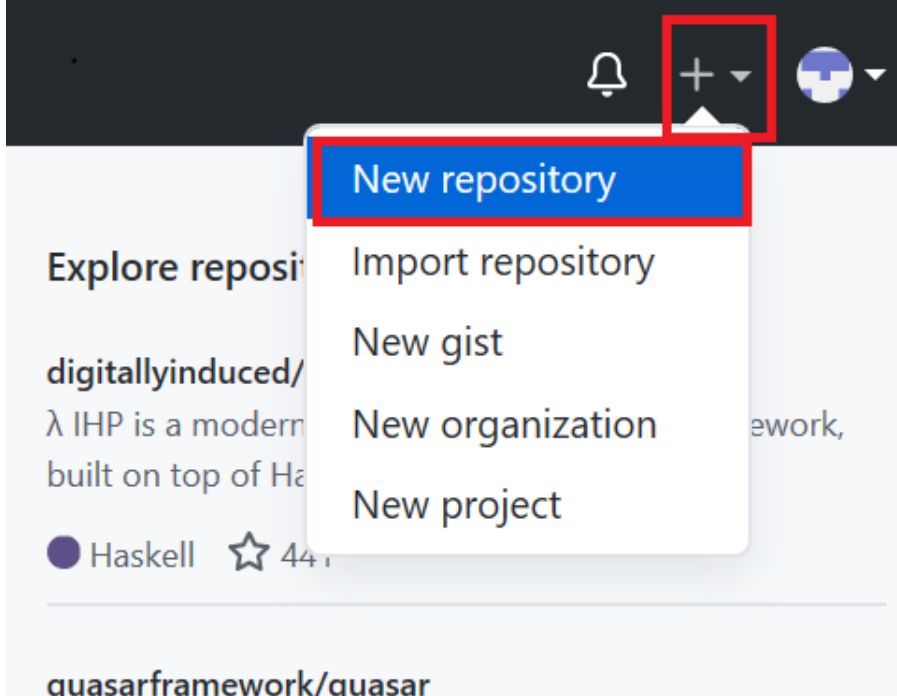
[Change your email settings](#)

When you have verified your email, you will see a screen that looks like this:

Your email was verified.

What do you want to do first?

Every developer needs to configure their environment, so let's get your GitHub experience optimized for you.



2. Enter a repository name and select the **Initialize this repository with a README** check box.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *



Malika-s ▾



Repository name *

testrepo



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

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.

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

☒ **Initialize this repository with a README**

This will let you immediately clone the repository to your computer.

Add .gitignore: None ▾

Add a license: None ▾



Create repository

Malika-s / testrepo

<> Code ⓘ Issues 🔗 Pull requests ⏮ Actions 📁 Projects 📖 Wiki 🛡 Security 📊 Insights ⚙ Settings

Branch: master Go to file Add file Code

Malika-s committed 783ee17 23 minutes ago 1 commits 1 branch 0 tags

README.md Initial commit 23 minutes ago

README.md

testrepo

2. Add some text to the file.

Malika-s / testrepo

<> Code ⓘ Issues 🔗 Pull requests ⏮ Actions 📁 Projects 📖 Wiki 🛡 Security 📊 Insights ⚙ Settings

testrepo / README.md Cancel

<> Edit file Preview changes

```
1 # testrepo
2
3 ## Editing the file
4
5 Its a markdown file in this repository.
```

3. Scroll to the bottom of the file and click **Commit changes**.

Commit changes

Update README.md

Add an optional extended description...

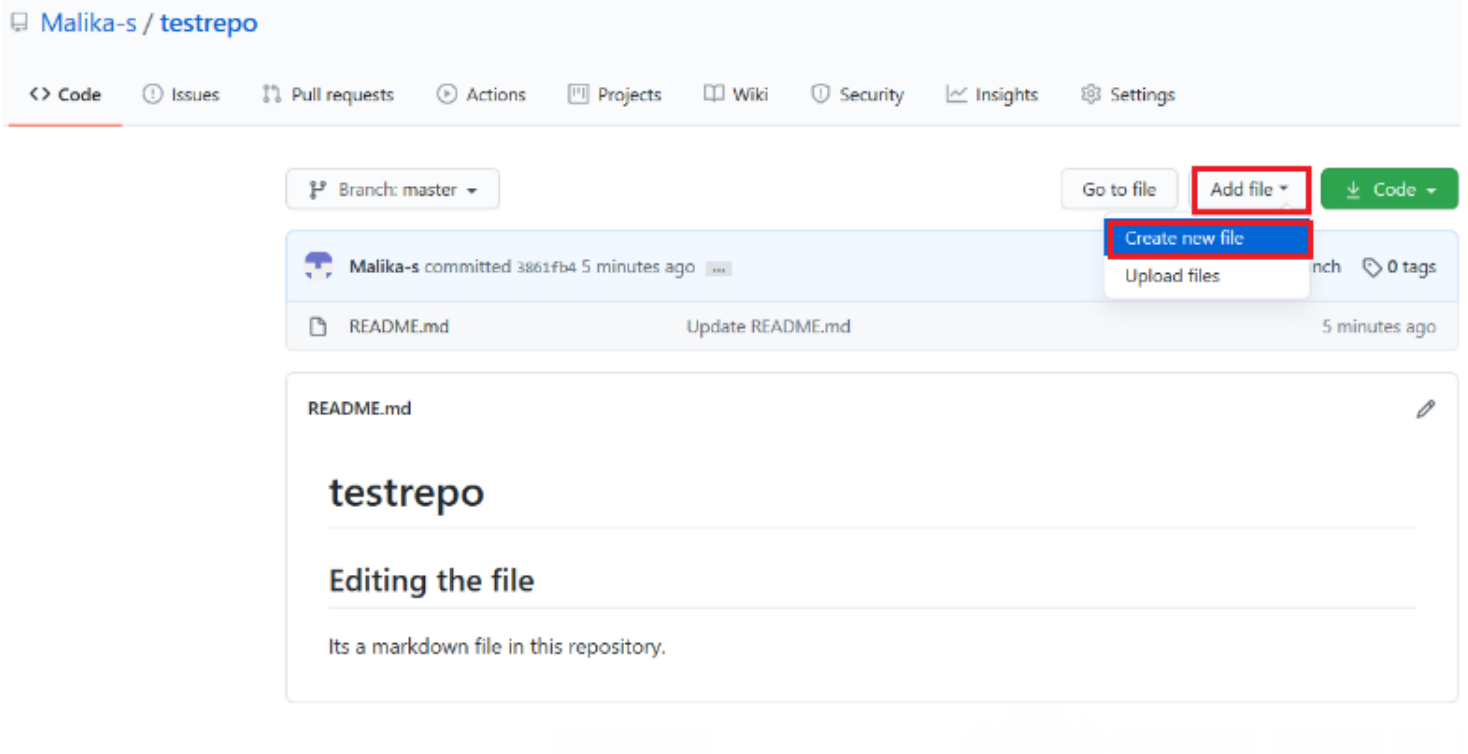
☒ Commit directly to the master branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

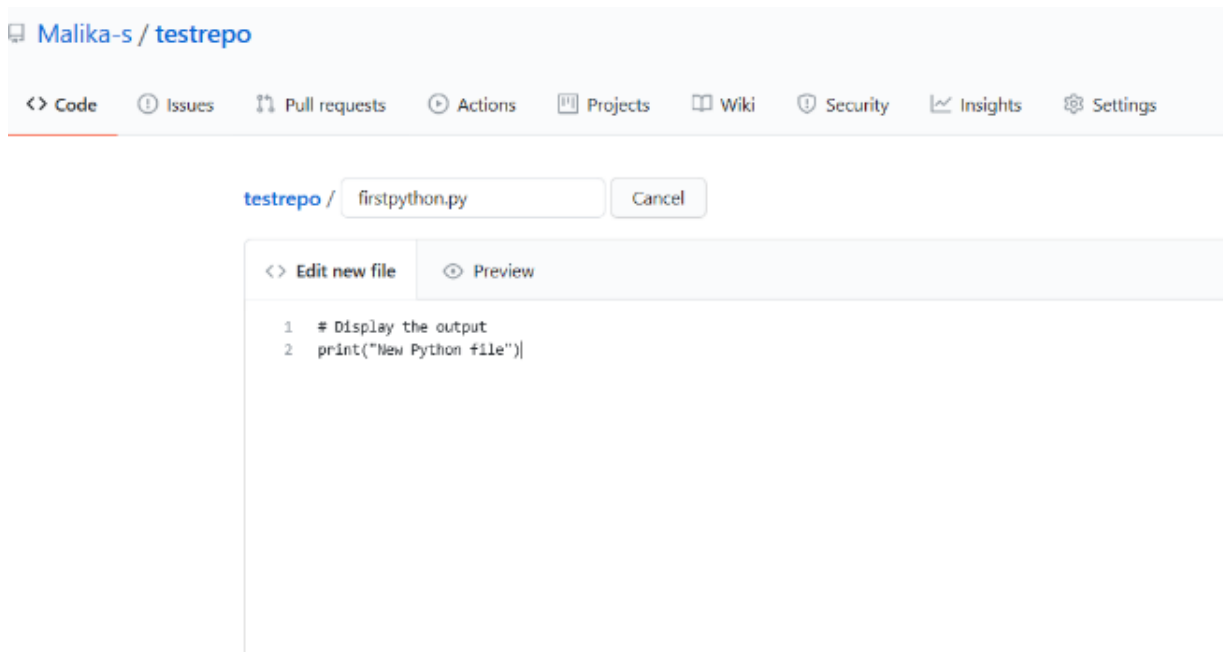
Commit changes Cancel

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

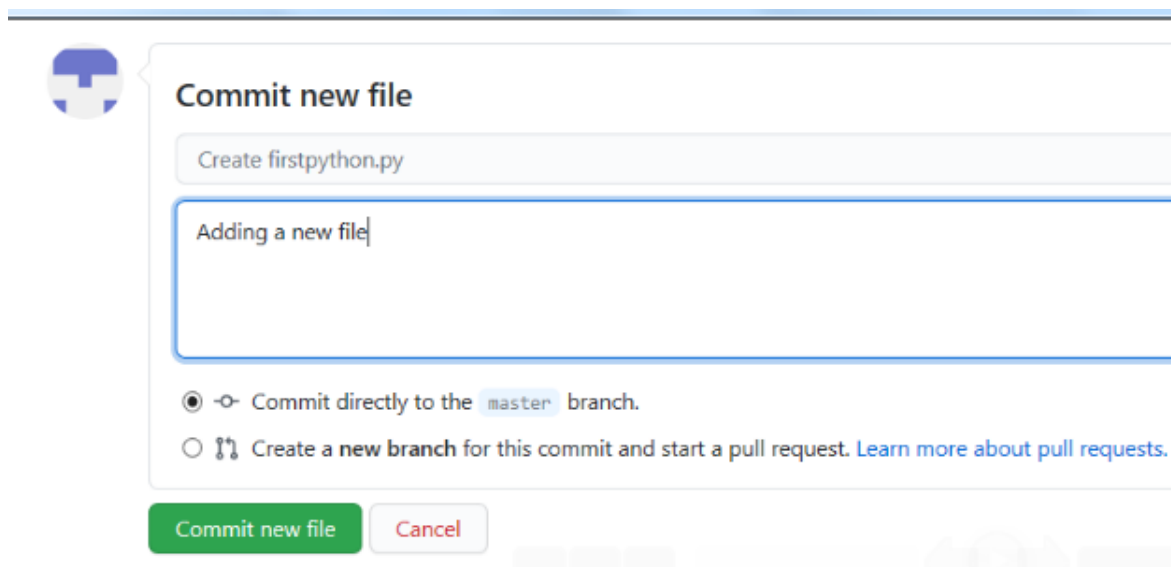
Create a new file



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



4. Scroll to the bottom of the page. You can optionally add a description of your update (for example, "Adding a new file")



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

Branch: master

Go to file

Add file

Create new file

Upload files

Malika-s committed 0eaa980 1 hour ago

| | |
|----------------|-----------------------|
| README.md | Update README.md |
| firstpython.py | Create firstpython.py |

README.md

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

testrepo /



Drag files here to add them to your repository

Or [choose your files](#)

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

Test.py



Commit changes

Add files via upload

Add an optional extended description...

☒ Commit directly to the `master` branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

Your file is uploaded to the repository.

- Rav Ahuja
- Upkar Lidder

Changelog:

| Date | Version | Changed by | Change Description |
|------------|---------|----------------|---|
| 2020-08-18 | 0.6 | Upkar Lidder | Updated GitHub Overview section |
| 2020-07-16 | 0.5 | Malika Singla | Spell check, step number added |
| 2020-07-14 | 0.4 | Rav Ahuja | Changed logo, updated effort, title, intro, objectives, added Authors and Cha |
| 2020-07-13 | 0.3 | Malika Singla | Added to GitLab and made some formatting changes, added objectives, etc. |
| 2020-07-03 | 0.2 | Malika Singla | Ported to markdown and added GitHub account signup, new screenshots, et |
| 2020-06-30 | 0.1 | Romeo Kienzler | Drafted initial version |

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