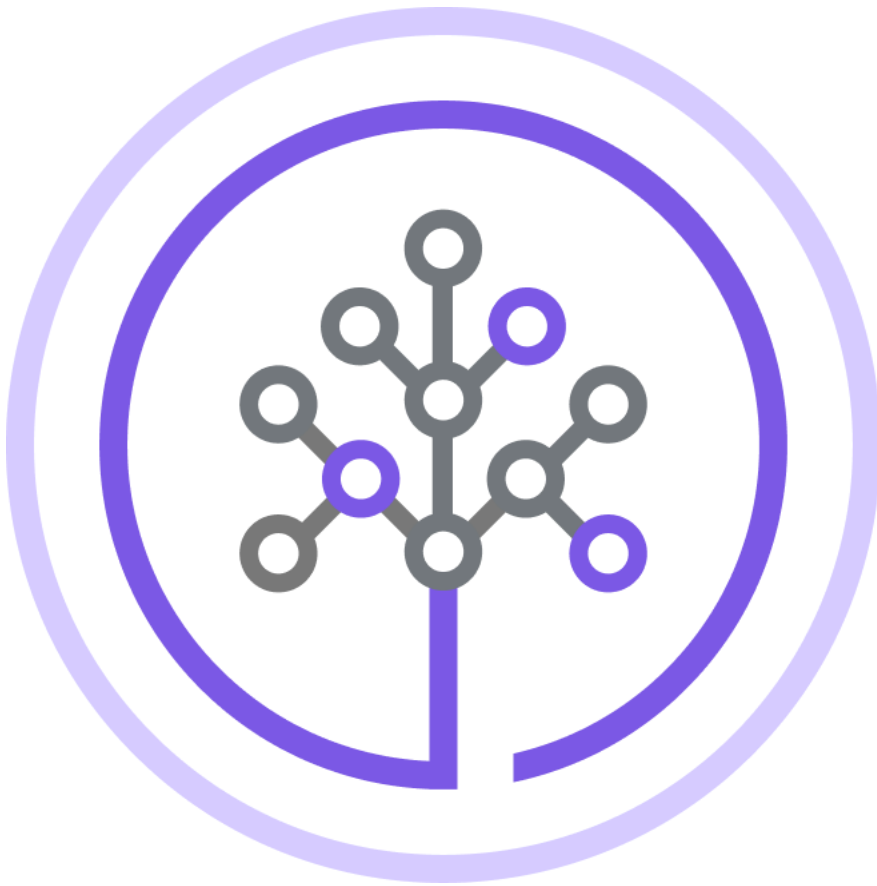


# Hands-on Lab: Getting Started with GitHub



# Skill Net

**Effort:** 20 min

In this lab, you will get started with GitHub by creating a GitHub account and project and adding a file to it using its Web interface.

## Objectives

After completing this lab, you will be able to:

1. Describe GitHub
2. Create a GitHub account
3. Add a project and repo
4. Edit and create a file
5. Upload a file and Commit

## GitHub Overview

First, let us introduce you to GitHub. GitHub is a collection of folders and files. It is a Git repository hosting service, but it adds many of its own features. Git is a command-line tool. It hosts and maintains a server via command line. GitHub provides this Git server and a Web-based graphical interface for you. It also provides access control and collaboration features, such as wikis and basic task management tools for every project. In addition, 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 hosting open source projects.

## Exercise 1: Creating a GitHub Account

Please use the following steps to create an account on GitHub:

Step 1: Create an account: <https://github.com/join>

**NOTE:** If you already have a GitHub account, you can skip this step and simply log in to your account.

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

# 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.


Click Create account.

Step 3: Click verify to verify the account and click Done.

## Verify your account

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

Verify



Step 4: After verification, click Join a Free Plan.

### Email preferences

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

[Join a free plan](#)

Step 5: Select the details as shown below and click **Complete setup**.

### 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:

languages, frameworks, industries

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

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

[Complete setup](#)

Step 6: Go to your email, find the verification email from GitHub, and click the **Verify your email** button or link in that email to verify.

**NOTE:** If you do not receive the verification email, click **Resend verification email**.



### Please verify your email address

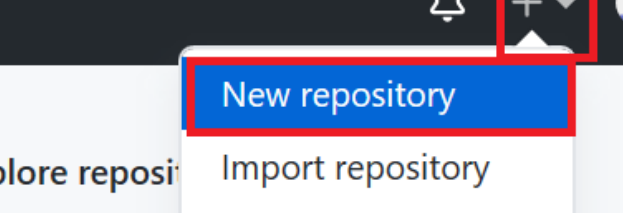
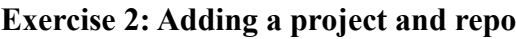
Before you can contribute on GitHub, we need you to verify your email address.

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

[Resend verification email](#)

[Change your email settings](#)

Your email was verified. x



The screenshot shows the GitHub header with a dark background. In the top right corner, there is a bell icon for notifications, a '+' icon for creating new content, and a user profile icon. The '+' icon is highlighted with a red rectangular box. A dropdown menu is open below the '+' icon, containing the following options: 'New repository' (which is highlighted with a blue background), 'Import repository', 'New gist', 'New organization', and 'New project'. Below the dropdown, part of a repository card is visible, showing the text 'Explore repository', 'digitallyinduced/', and 'λ IHP is a modern... built on top of Ha...'. At the bottom, the repository 'quasarf.../quasar' is partially visible.

Step 2: Provide a name for the repository and initialize it with the empty README.md file.

## Create a new repository

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

---

Owner \*

Repository name \*

Malika-s

 / 

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

Click Create repository.

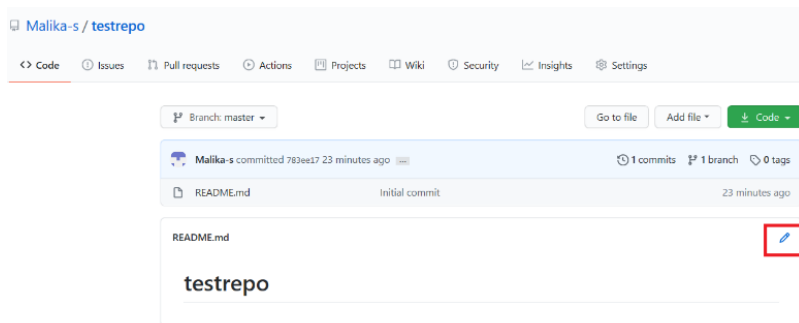
Now, you will be redirected to the repository you have created.

Let's start editing the repository.

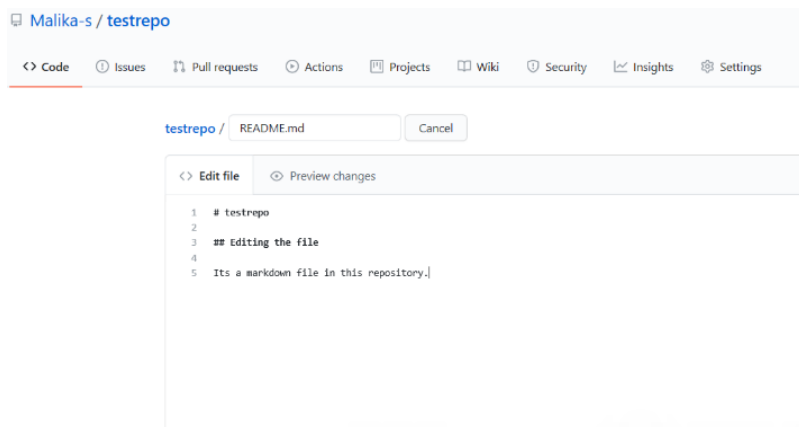
## Exercise 3: Create and edit a file

### Exercise 3a: Edit a file

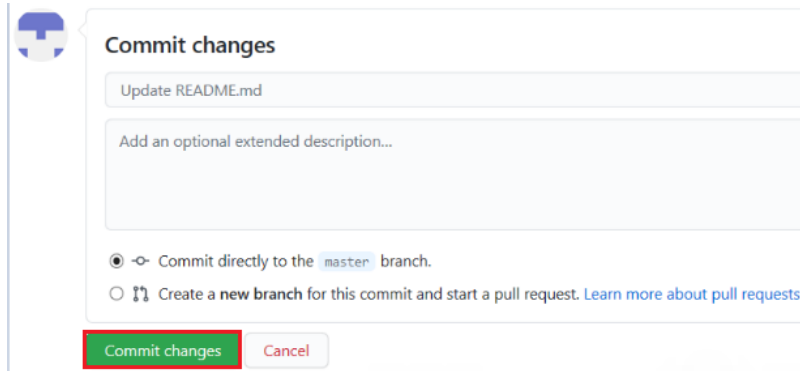
Step 1: Once the repository is created, the root folder of your repository is listed by default, and has just one file, `ReadMe.md`. Click the pencil icon to edit the file.



Step 2: Add some text to the file.



Step 3: Scroll down the page after adding the text and click Commit Changes.

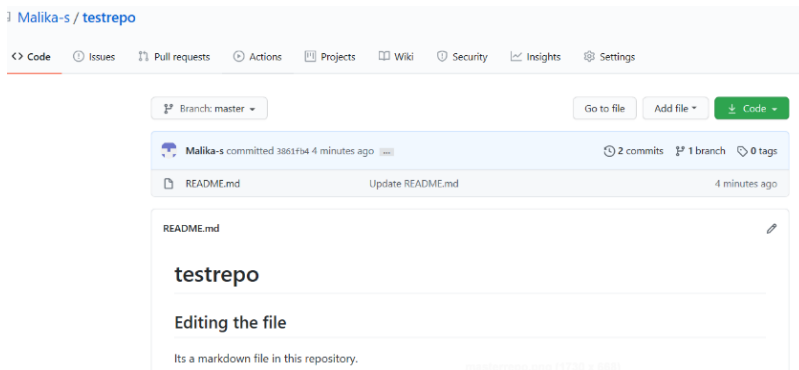


The screenshot shows the 'Commit changes' dialog box in GitHub. At the top, there's a header with the GitHub logo and the title 'Commit changes'. Below this, there's a text input field containing 'Update README.md'. Underneath that is a larger text area with the placeholder 'Add an optional extended description...'. Further down, there are two radio button options: the first is selected and labeled 'Commit directly to the master branch.', and the second is labeled 'Create a new branch for this commit and start a pull request. Learn more about pull requests.' At the bottom of the dialog, there are two buttons: 'Commit changes' (highlighted with a red box) and 'Cancel'.

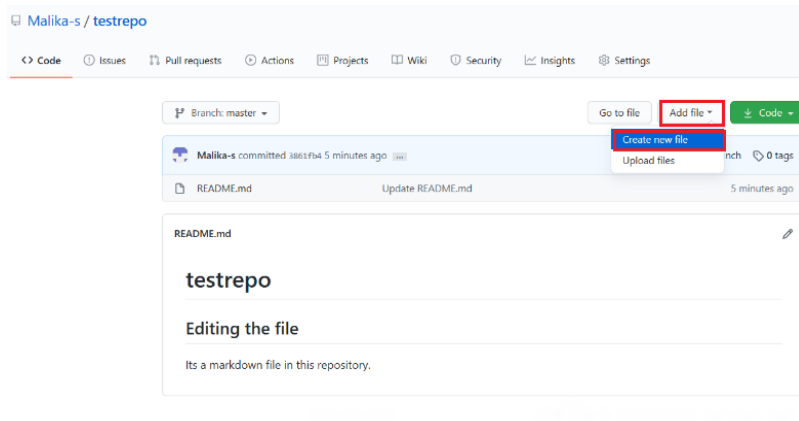
Now, check that your file is edited with the new text.

### Exercise 3b: Create a new file

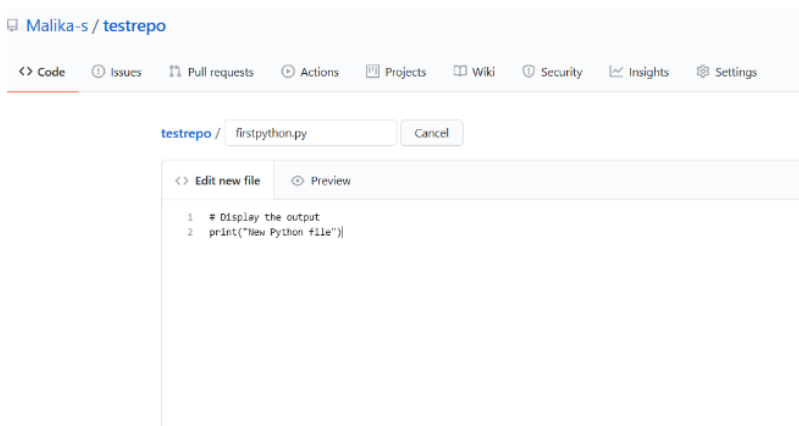
Step 1: Click the repository name to return to the master branch, like in this testrepo.



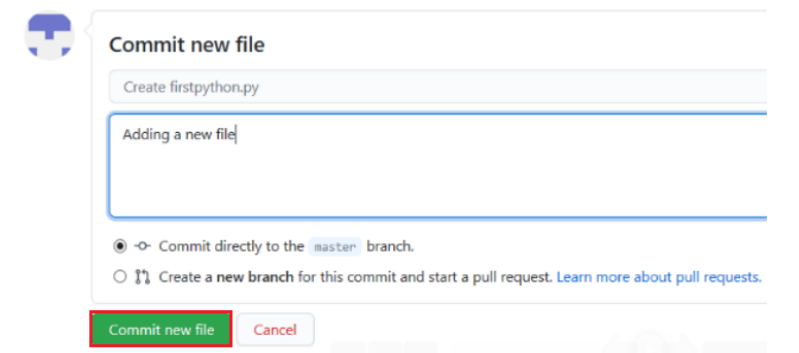
Step 2: Click Add file and select Create New file to create a file in the repository.



Step 3: Provide the file name and the extension of the file. For example, firstpython.py and add the lines.



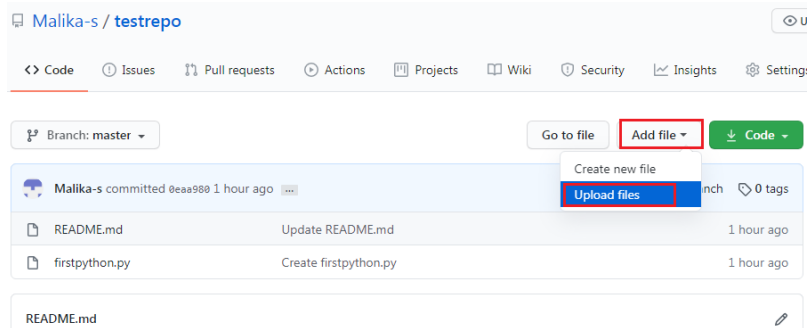
Step 4: Scroll down the page after adding the text. Add description of the file (optional) and click Commit new file.



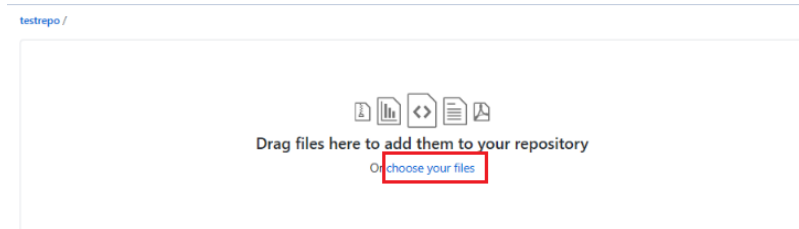
Step 5: Your file is now added to your repository, and the repository listing shows when the file was added and changed.

## Exercise 4: Upload a file & Commit

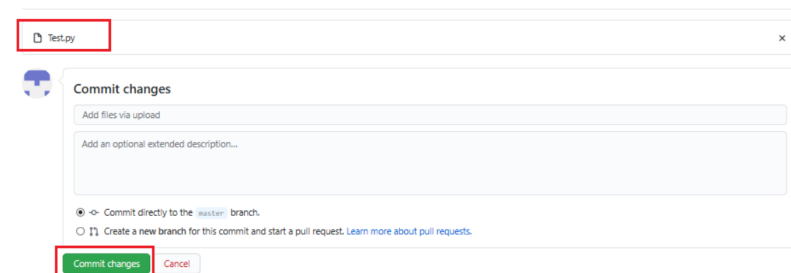
Step 1: Click Add file and select Upload files to upload a file (any .txt, .ipynb, .png file) in the repository from the local computer.



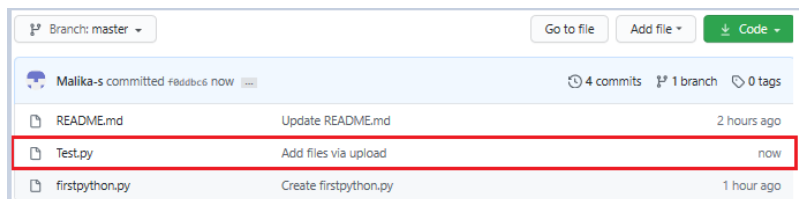
Step 2: Click choose your files and select any files from your computer.



Step 3: Once the file finishes uploading, click Commit changes.



Step 4: Now, your file is uploaded in the repository.



## Summary

In this document, you have learned how to create a new repository, add a new file, edit a file, upload a file in a repository, and commit the changes.

Author(s)

Romeo Kienzler

Malika Singla

Other Contributor(s)

Rav Ahuja

Changelog

Date	Version	Changed by	Change Description
2023-01-17	0.6	Steve Hord	QA pass with edits
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 Changelog
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, etc.
2020-06-30	0.1	Romeo Kienzler	Drafted initial version

© IBM Corporation 2020. All rights reserved.