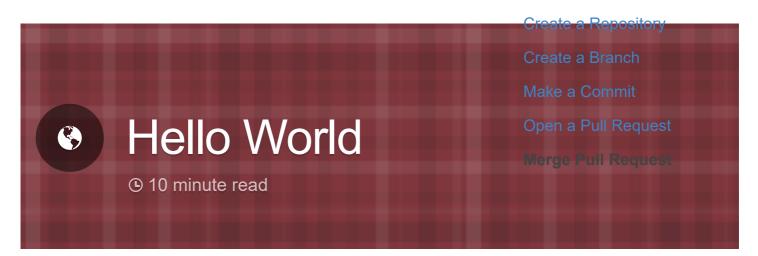
GitHub Guides

Video Guides

Intro

GitHub Help GitHub.com
What is GitHub?



The **Hello World** project is a time-honored tradition in computer programming. It is a simple exercise that gets you started when learning something new. Let's get started with GitHub!

You'll learn how to:

- Create and use a repository
- Start and manage a new branch
- Make changes to a file and push them to GitHub as commits
- Open and merge a pull request

What is GitHub?

GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere.

This tutorial teaches you GitHub essentials like *repositories*, *branches*, *commits*, and *Pull Requests*. You'll create your own Hello World repository and learn GitHub's Pull Request workflow, a popular way to create and review code.

No coding necessary

To complete this tutorial, you need a GitHub.com account and Internet access. You don't need to know how to code, use the command line, or install Git (the version What is GitHub? control software GitHub is built on).

Create a Repository

Tip: Open this guide in a separate browser window (or tab) so you can see it while you complete the steps in the tutorial.

Make a Commit

Open a Pull Request

Step 1. Create a Repository

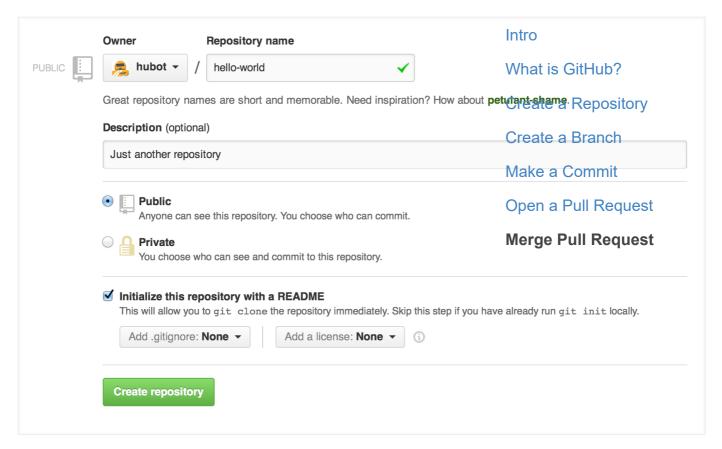
Merge Pull Request

A **repository** is usually used to organize a single project. Repositories can contain folders and files, images, videos, spreadsheets, and data sets – anything your project needs. We recommend including a *README*, or a file with information about your project. GitHub makes it easy to add one at the same time you create your new repository. *It also offers other common options such as a license file*.

Your hello-world repository can be a place where you store ideas, resources, or even share and discuss things with others.

To create a new repository

- 1. In the upper right corner, next to your avatar or identicon, click + and then select **New repository**.
- 2. Name your repository hello-world.
- 3. Write a short description.
- 4. Select Initialize this repository with a README.



Click Create repository.

Step 2. Create a Branch

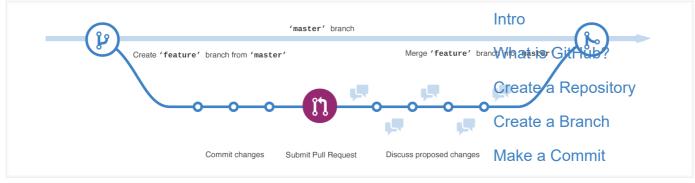
Branching is the way to work on different versions of a repository at one time.

By default your repository has one branch named main which is considered to be the definitive branch. We use branches to experiment and make edits before committing them to main.

When you create a branch off the main branch, you're making a copy, or snapshot, of main as it was at that point in time. If someone else made changes to the main branch while you were working on your branch, you could pull in those updates.

This diagram shows:

- The main branch
- A new branch called feature (because we're doing 'feature work' on this branch)
- The journey that feature takes before it's merged into main



Open a Pull Request

Have you ever saved different versions of a file? Something like: Pull Request

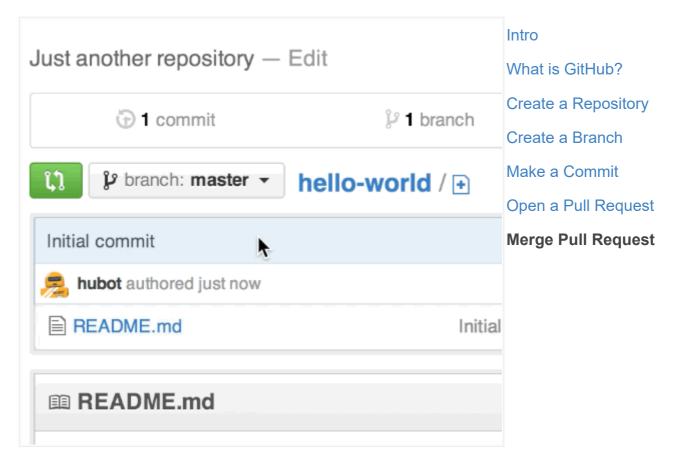
- story.txt
- story-joe-edit.txt
- story-joe-edit-reviewed.txt

Branches accomplish similar goals in GitHub repositories.

Here at GitHub, our developers, writers, and designers use branches for keeping bug fixes and feature work separate from our main (production) branch. When a change is ready, they merge their branch into main.

To create a new branch

- 1. Go to your new repository hello-world.
- 2. Click the drop down at the top of the file list that says branch: main.
- 3. Type a branch name, readme-edits, into the new branch text box.
- 4. Select the blue Create branch box or hit "Enter" on your keyboard.



Now you have two branches, main and readme-edits. They look exactly the same, but not for long! Next we'll add our changes to the new branch.

Step 3. Make and commit changes

Bravo! Now, you're on the code view for your readme-edits branch, which is a copy of main. Let's make some edits.

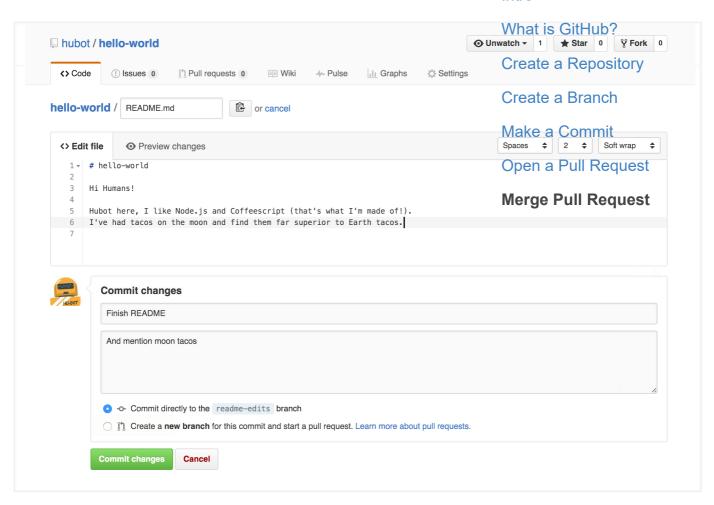
On GitHub, saved changes are called *commits*. Each commit has an associated *commit message*, which is a description explaining why a particular change was made. Commit messages capture the history of your changes, so other contributors can understand what you've done and why.

Make and commit changes

- 1. Click the README.md file.
- 2. Click the pencil icon in the upper right corner of the file view to edit.
- 3. In the editor, write a bit about yourself.
- 4. Write a commit message that describes your changes.

5. Click **Commit changes** button.

Intro



These changes will be made to just the README file on your readme-edits branch, so now this branch contains content that's different from main.

Step 4. Open a Pull Request

Nice edits! Now that you have changes in a branch off of main, you can open a *pull request*.

Pull Requests are the heart of collaboration on GitHub. When you open a *pull request*, you're proposing your changes and requesting that someone review and pull in your contribution and merge them into their branch. Pull requests show *diffs*, or differences, of the content from both branches. The changes, additions, and subtractions are shown in green and red.

As soon as you make a commit, you can open a pull request and start a discussion, even before the code is finished.

By using GitHub's @mention system in your pull request message, you can ask for feedback from specific people or teams, whether they're down the hall or 10 time What is GitHub? zones away.

Create a Repository

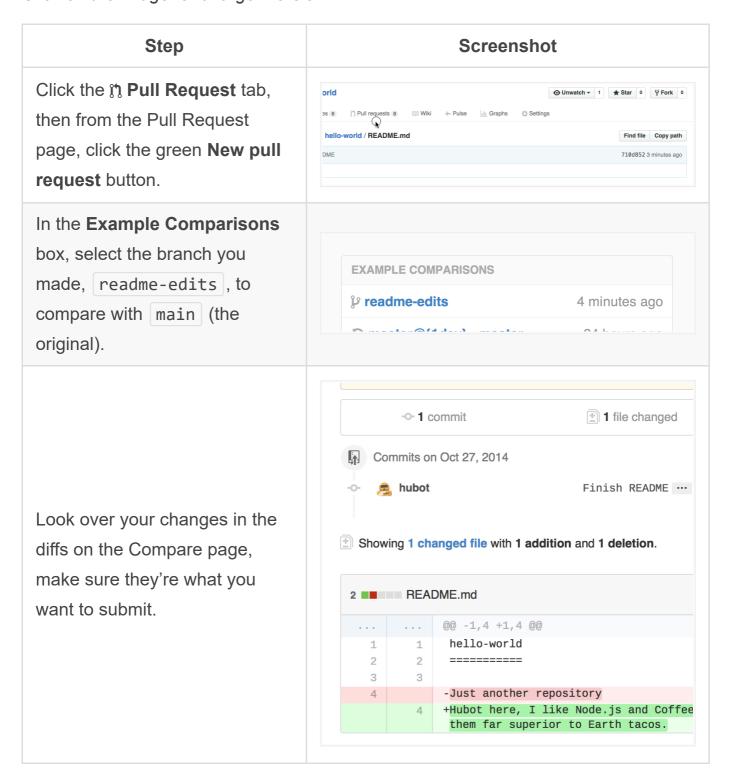
You can even open pull requests in your own repository and merge them yourself. It's a great way to learn the GitHub flow before working on larger projects.

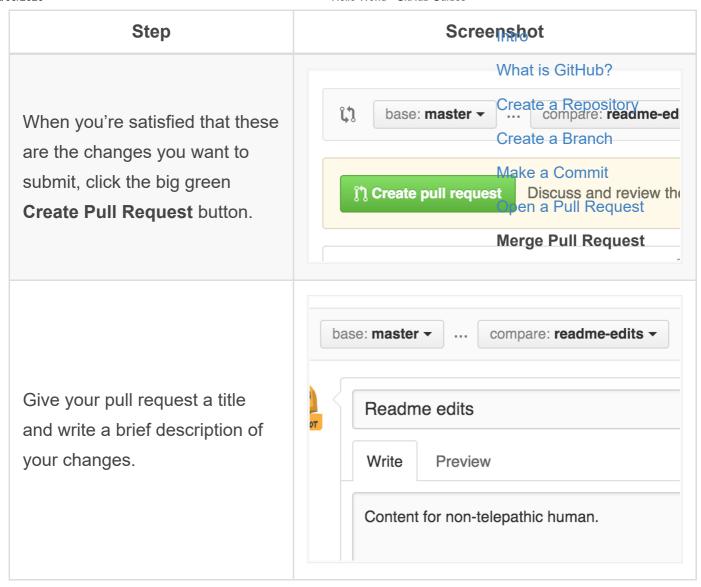
Make a Commit

Open a Pull Request for changes to the README on a Pull Request

Merge Pull Request

Click on the image for a larger version





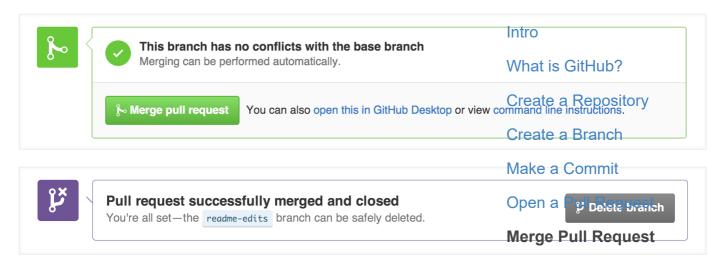
When you're done with your message, click **Create pull request!**

Tip: You can use emoji and drag and drop images and gifs onto comments and Pull Requests.

Step 5. Merge your Pull Request

In this final step, it's time to bring your changes together — merging your readme-edits branch into the main branch.

- 1. Click the green **Merge pull request** button to merge the changes into main.
- 2. Click Confirm merge.
- 3. Go ahead and delete the branch, since its changes have been incorporated, with the **Delete branch** button in the purple box.



Celebrate!

By completing this tutorial, you've learned to create a project and make a pull request on GitHub!

Here's what you accomplished in this tutorial:

- Created an open source repository
- Started and managed a new branch
- Changed a file and committed those changes to GitHub
- Opened and merged a Pull Request

Take a look at your GitHub profile and you'll see your new contribution squares!

To learn more about the power of Pull Requests, we recommend reading the GitHub flow Guide. You might also visit GitHub Explore and get involved in an Open Source project.

Tip: Check out our other Guides, YouTube Channel and On-Demand Training for more on how to get started with GitHub.

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Powerful collaboration, code review, and code management for dotte source and private projects.

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