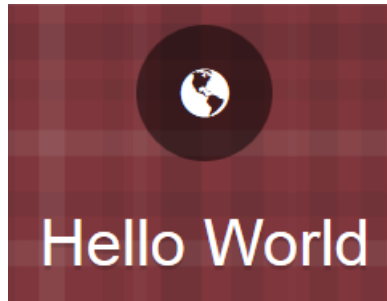


Get started with GitHub



In this guide you'll complete a time honored "Hello World" exercise, and learn GitHub essentials.

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](https://github.com) and Internet access. You don't need to know how to code, use the command line, or install Git (the version control software GitHub is built on).

Step 1. Create a Repository

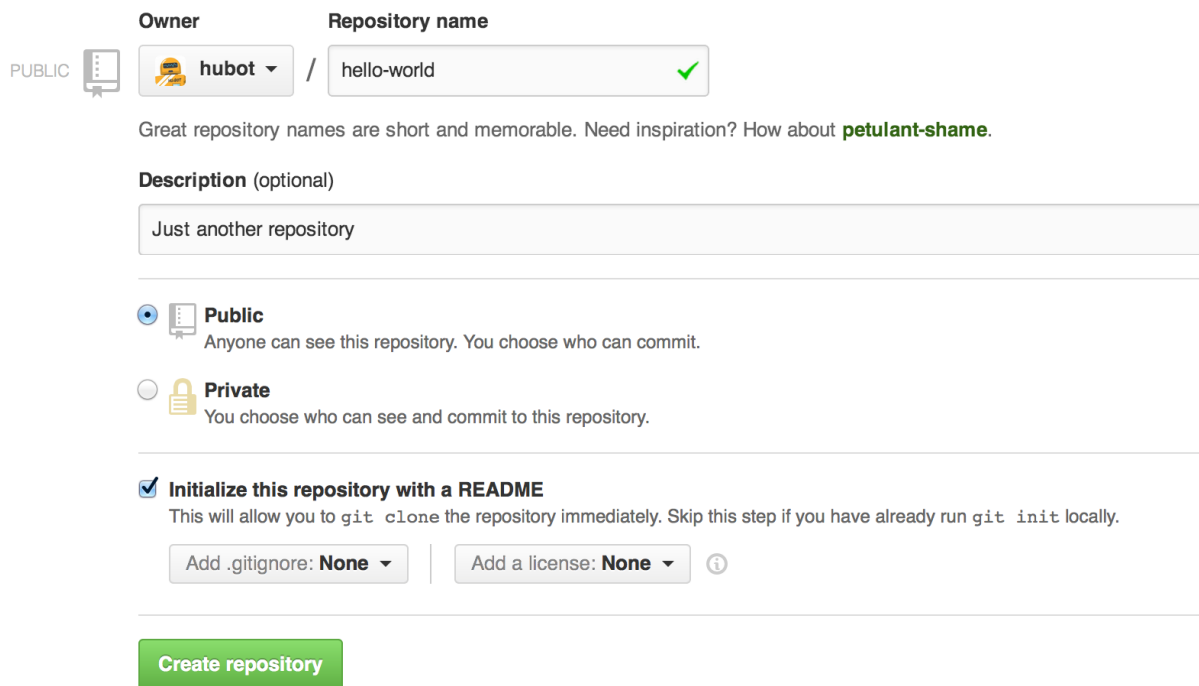
A **repository** is usually used to organize a single project. Repositories can contain folders and files, images, videos, spreadsheets, and data sets – anything your project needs. We recommend including a *README*, or a file with information about your project. GitHub makes it easy to add

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**



The screenshot shows the GitHub 'Create new repository' interface. At the top, there are two main sections: 'Owner' and 'Repository name'. The 'Owner' section shows 'PUBLIC' and a dropdown menu with 'hubot' selected. The 'Repository name' section shows 'hello-world' with a green checkmark. Below these, there is a text input field for 'Description (optional)' with the placeholder text 'Just another repository'. Underneath the description field, there are two radio button options: 'Public' (selected) and 'Private'. The 'Public' option is described as 'Anyone can see this repository. You choose who can commit.' The 'Private' option is described as 'You choose who can see and commit to this repository.' Below the radio buttons, there is a checked checkbox for 'Initialize this repository with a README', with a note: 'This will allow you to `git clone` the repository immediately. Skip this step if you have already run `git init` locally.' At the bottom, there are two dropdown menus: 'Add .gitignore: None' and 'Add a license: None', followed by an information icon. A green 'Create repository' button is at the very bottom.

Step 2. Create a Branch

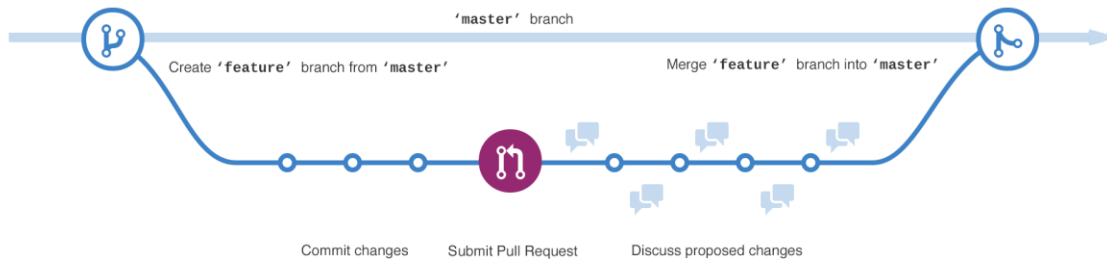
Branching is the way to work on different versions of a repository at one time.

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

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

This diagram shows:

- The **master** 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 **master**



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

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

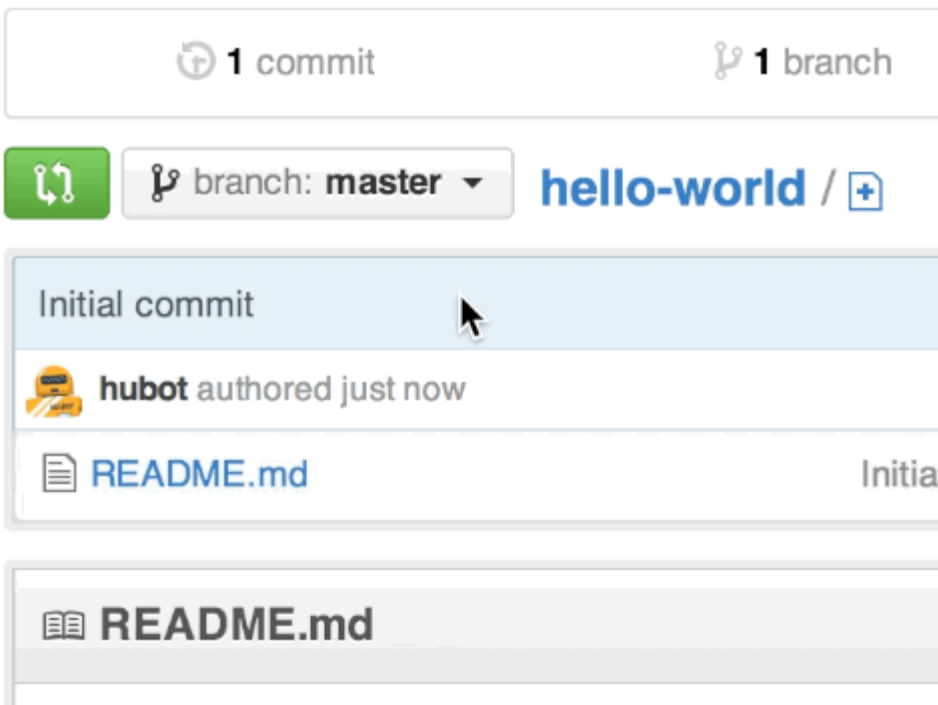
Branches accomplish similar goals in GitHub repositories.

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

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: master**.
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.

Just another repository — Edit



Now you have two branches, **master** 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 master. 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.

The screenshot shows the GitHub web interface for a repository named 'hubot / hello-world'. At the top, there are navigation links for 'Code', 'Issues 0', 'Pull requests 0', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. Below these, the file 'hello-world / README.md' is selected. The main area shows the 'Edit file' view with a line editor. The code content is as follows:

```
1 # hello-world
2
3 Hi Humans!
4
5 Hubot here, I like Node.js and Coffeescript (that's what I'm made of!).
6 I've had tacos on the moon and find them far superior to Earth tacos.
7
```

Below the editor is the 'Commit changes' section. It includes a text area with the commit message 'Finish README' and a larger text area with the description 'And mention moon tacos'. There are two radio button options: 'Commit directly to the readme-edits branch' (which is selected) and 'Create a new branch for this commit and start a pull request. Learn more about pull requests.' At the bottom of this section are two buttons: 'Commit changes' (in green) and 'Cancel'.

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 **master**.

Step 4. Open a Pull Request

Nice edits! Now that you have changes in a branch off of master, 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.

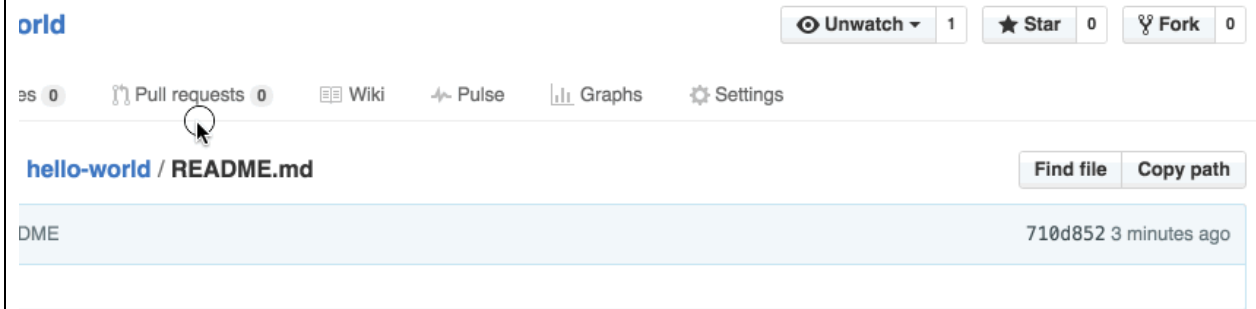
As soon as you make a commit, you can open a pull request and start a discussion, even before the code is finished.

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 zones away.

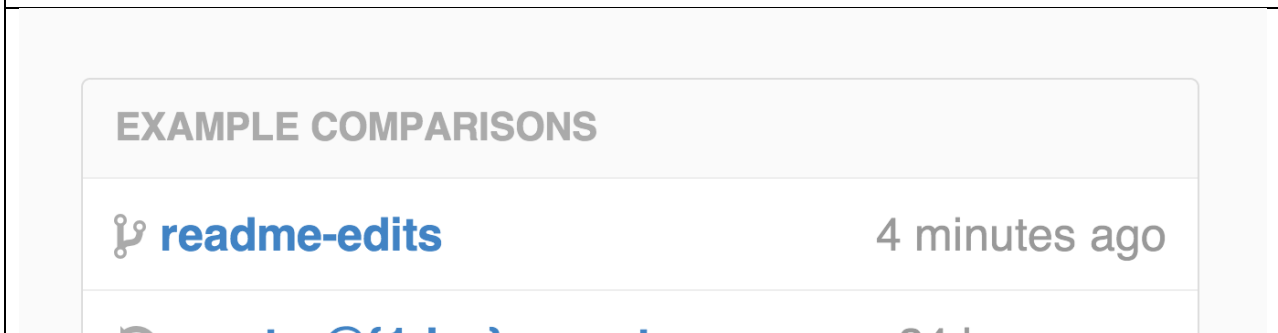
You can even open pull requests in your own repository and merge them yourself. It's a great way to learn the GitHub Flow before working on larger projects.

Step & Snapshot

1. Click the **Pull Request** tab, and then from the Pull Request page, click the green **New pull request** button.



2. Select the branch you made, **readme-edits**, to compare with **master** (the original).



3. Look over your changes in the diffs on the Compare page; make sure they're what you want to submit.

1 commit

1 file changed

Commits on Oct 27, 2014


hubot


Finish README ...

Showing 1 changed file with 1 addition and 1 deletion.

2 README.md		
...	...	@@ -1,4 +1,4 @@
1	1	hello-world
2	2	=====
3	3	
4		-Just another repository
	4	+Hubot here, I like Node.js and Coffee them far superior to Earth tacos.


- When you're satisfied that these are the changes you want to submit, click the big green **Create Pull Request** button.

base: **master** ▼ ... compare: **readme-ed**

 **Create pull request**

Discuss and review the

5. Give your pull request a title and write a brief description of your changes.

0T

Readme edits

Write

Preview

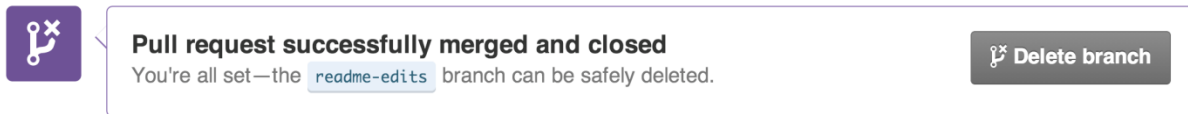
Content for non-telepathic human.

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

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 master branch.

1. Click the green **Merge pull request** button to merge the changes into master.
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**.

A glance of created repository at GitHub!

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Hello World <https://github.com/MalayVerma/FirstCode>

[3](#) commits


[1](#) branch

[0](#) releases

[0](#) contributors


Branch: [master](#) ▼ [New pull request](#)

[Find file](#) [Clone or download](#) ▼

 **malayverma** committed on **GitHub** Delete hello.java Latest commit eedc460 19 seconds ago

[HelloWorld.html](#) Signed-off-by: Verma <mverma24@ms.ds.uhc.com> 13 minutes ago

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