* We are open! Classes are running in-person (socially distanced) and live online. Secure your seat today

Search...

Git Branches: List, Create, Switch to, Merge, Push, & Delete

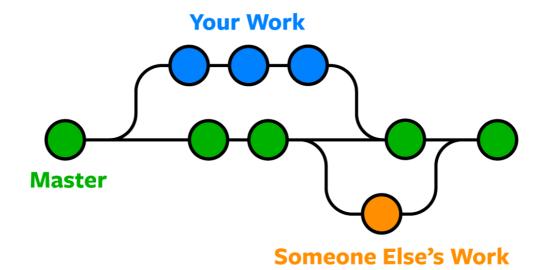
Git Tips & Commands

October 6, 2021

Read more in Git

Share **y** f in

Git lets you branch out from the original code base. This lets you more easily work with other developers, and gives you a lot of flexibility in your workflow.



Here's an example of how Git branches are useful. Let's say you need to work on a new feature

for a website. You create a new branch and start working. You haven't finished your new feature, but you get a request to make a rush change that needs to go live on the site today. You switch back to the master branch, make the change, and push it live. Then you can switch

back to your new feature branch and finish your work. When you're done, you merge the new feature branch into the master branch, and both the new feature and rush change are kept!

For All the Commands Below

The commands below assume you've navigated to the folder for the Git repo.

See What Branch You're On

- Run this command:
 - git status

List All Branches

NOTE: The current local branch will be marked with an asterisk (*).

- To see **local branches**, run this command:
 - git branch
- To see **remote branches**, run this command:
 - git branch -r
- To see all local and remote branches, run this command:
 - git branch -a

Create a New Branch

- Run this command (replacing **my-branch-name** with whatever name you want):
 - git checkout -b my-branch-name
- You're now ready to commit to this branch.

Switch to a Branch In Your Local Repo

- Run this command:
 - git checkout my-branch-name

Switch to a Branch That Came From a Remote Repo

- 1. To get a list of all branches from the remote, run this command:
 - git pull
- 2. Run this command to switch to the branch:
 - git checkout --track origin/my-branch-name

Push to a Branch

- If your local branch **does not exist** on the remote, run either of these commands:
 - git push -u origin my-branch-name
 - git push -u origin HEAD

NOTE: HEAD is a reference to the top of the current branch, so it's an easy way to push to a branch of the same name on the remote. This saves you from having to type out the exact name of the branch!

- If your local branch **already exists** on the remote, run this command:
 - git push

Merge a Branch

- 1. You'll want to make sure your working tree is clean and see what branch you're on. Run this command:
 - git status
- 2. First, you must check out the branch that you want to merge another branch into (changes will be merged into this branch). If you're not already on the desired branch, run this command:
 - git checkout master
 - **NOTE:** Replace **master** with another branch name as needed.

- 3. Now you can merge another branch into the current branch. Run this command:
 - git merge my-branch-name
 - **NOTE:** When you merge, there may be a conflict. Refer to **Handling Merge Conflicts** (the next exercise) to learn what to do.

Delete Branches

- To delete a **remote branch**, run this command:
 - git push origin --delete my-branch-name
- To delete a **local branch**, run either of these commands:
 - git branch -d my-branch-name
 - git branch -D my-branch-name
- **NOTE:** The -d option only deletes the branch if it has already been merged. The -D option is a shortcut for --delete --force, which deletes the branch irrespective of its merged status.

Grow Your Skills With Hands-on Classes

Learn Git with hands-on training:

- Coding Classes NYC
- Python Classes NYC
- Coding Classes Near Me or Coding Classes Live Online
- Python Classes Near Me or Python Classes Live Online

Learn more about Git

Web Development Training NYC or Online

Web Dev Certificate NYC or Online

Web Design Classes NYC or Online

Web Design Certificate NYC or Online

Related Resources

Untracked files: (use "git add <file>..." to include in what w

deday been?

How to Create a Git Repository: git init

A Git repository (or repo for short) contains all of the project les and the entire revision history. Learn the Git command to make a repository.

Origin is an alias to the remote repository. We say **origin** so we won't have to write out the URL of the remote repo every time in the future. While **origin** is the name most people use, you can name it something else.

You can road more about origin at git tower com/learn/git/glossan/origin

Push to a Remote Repository: git push

After you have a remote repository set up, you upload (push) your files and revision history to it.

the tolder for your Git repo.

Run the following command:

git pull

Pull From a Remote Repository: git pull & git fetch

After someone else makes changes to a remote repo, you can download (pull) their changes into your local repo.

Contact Us Location

In-Person in NYC

31/03/2022 17:59 Git Branches: List, Create, Switch to, Merge, Push, & Delete

Office Hours: 9am-6pm, Mon-Fri

(212) 226-4149

185 Madison Avenue 3rd Floor New York, NY 10016

Campus Info

Live Online from Anywhere

? Live Online Info

Noble Desktop is today's primary center for learning and career development. Since 1990, our project-based classes and certificate programs

have given professionals the tools to pursue creative careers in design, coding, and beyond.

Win a Free Class!

Sign up to get tips, free giveaways, and more in our weekly newsletter.

If you are a human, ignore this field

Enter your email

Sign Up

© 1998–2022 Noble Desktop - Privacy & Terms