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

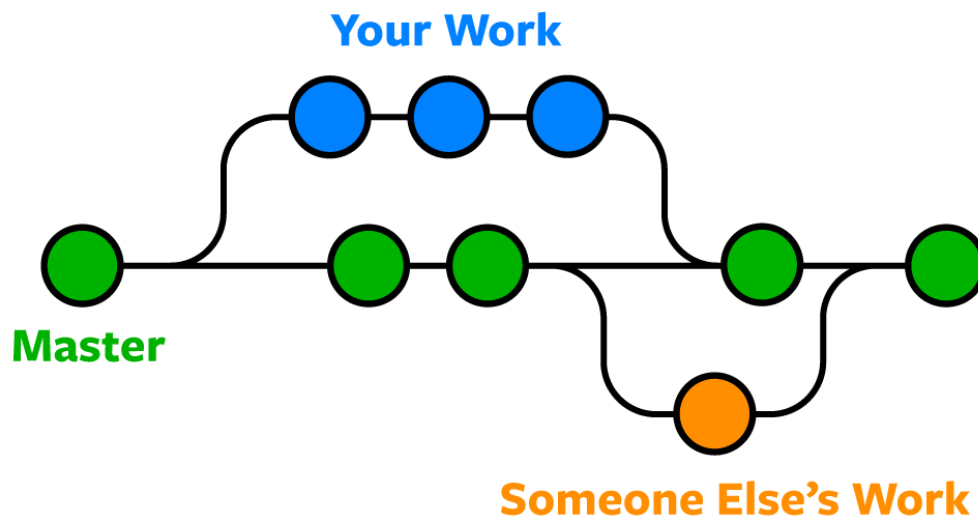
Git Tips & Commands

October 6, 2021

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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.

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Related Resources

Untracked files:
(use "git add <file>..." to include in what will be committed)

[index.html](#)

How to Create a Git Repository: git init

A Git repository (or repo for short) contains all of the project files 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 read more about origin at git-tower.com/learn/git/glossary/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 folder 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.

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