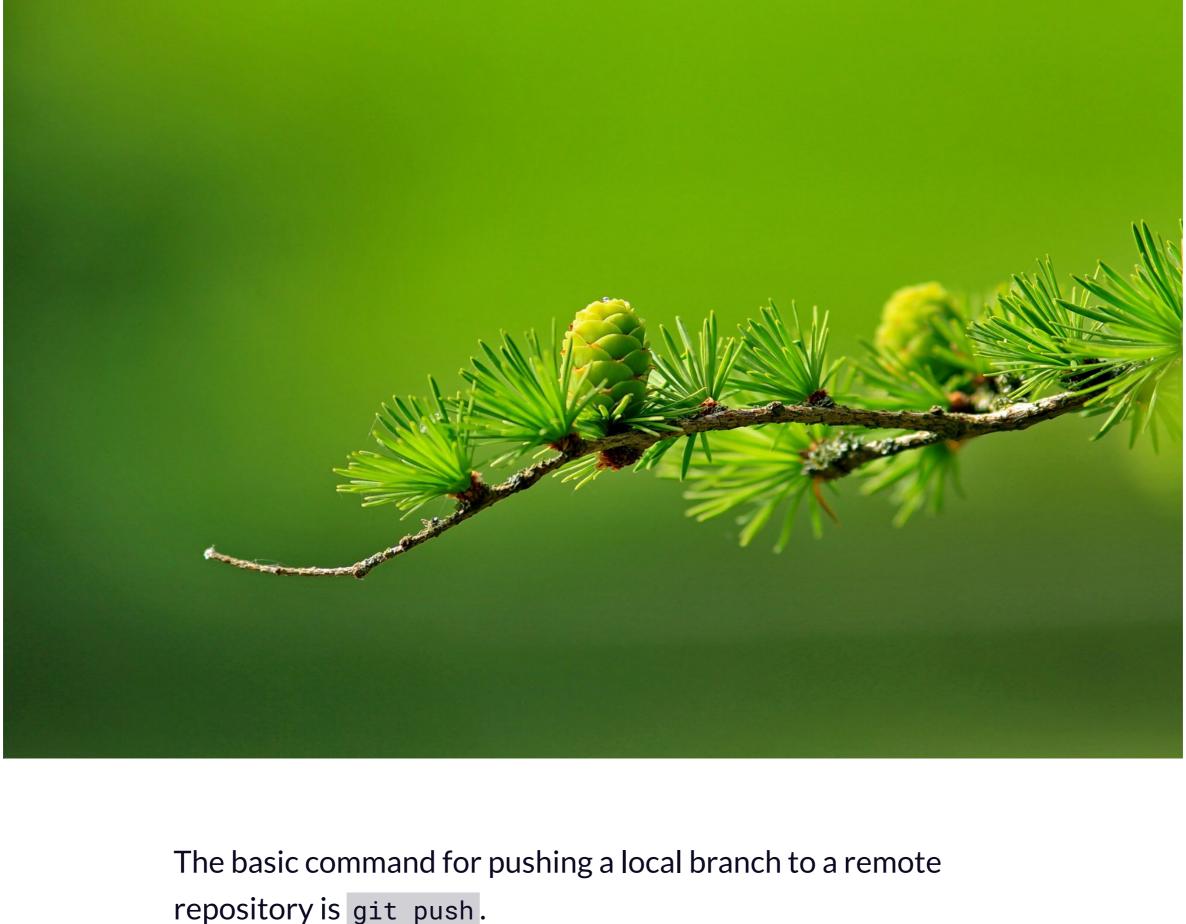
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APRIL 26, 2021 / #GIT

Git Push to Remote Branch – How to Push a **Local Branch to Origin**





How to push a local Git branch to Origin If you run the simple command git push, Git will by default choose two

This command has a variety of options and parameters you can pass to it,

and in this article you'll learn the ones that you will use the most often.

to push.

more parameters for you: the **remote repository** to push to and the **branch**

\$ git push <remote> <branch>

branch to push. If your current branch is main, the command git push will supply the two default parameters—effectively running git push origin main.

By default, Git chooses origin for the remote and your current branch as the

(main)\$ git remote -v origin git@github.com:johnmosesman/burner-repo.git (fetch) origin git@github.com:johnmosesman/burner-repo.git (push)

To github.com:johnmosesman/burner-repo.git b7f661f..ab77dd6 main -> main From the output you can see that the local main branch was pushed to the remote main branch: To github.com:johnmosesman/burner-repo.git b7f661f..ab77dd6 main -> main

But, there are times when you need to forcefully overwrite the history of a branch.

make a new commit reverting the changes. The second and more common scenario is after an action like a **rebase**

Internally, Git accomplishes [a rebase] by creating new commits and

applying them to the specified base. It's very important to

understand that even though the branch looks the same, it's

This means that if you try to push a branch that has been rebased locally but not on the remote—the remote repository will recognize that the commit history has changed, and it will prevent you from pushing until you

(my-feature)\$ git push To github.com:johnmosesman/burner-repo.git my-feature -> my-feature (non-fast-forward) error: failed to push some refs to 'git@github.com:johnmosesman/burner-repo.git' hint: Updates were rejected because the tip of your current branch is behind hint: its remote counterpart. Integrate the remote changes (e.g. hint: 'git pull ...') before pushing again.

You could do a git pull here to merge the differences, but if you really want

to overwrite the remote repository you can add the --force flag to your

(Note: you can use -f as a shorthand instead of --force.) A force push is a destructive action—only use it when you're certain it's what you want to do.

Sometimes you may want to force push—but only if no one else has

Again from the documentation: --force-with-lease alone, without specifying the details, will protect all remote refs that are going to be updated by requiring their current

If you're collaborating with others on your branch, it would be good to either

avoid using --force or at least use --force-with-lease to prevent losing

How to push to a branch of a different name

If someone else contributes to your branch and pushes up their changes to

the remote—and you force push over it—you will overwrite their changes.

To prevent this scenario, you can use the --force-with-lease option.

You will usually push your local branch to a remote branch of the same name -but not always.

How to push all local branches to the remote You won't need to push all branches from your local very often, but if you do

If you liked this tutorial, I also talk about topics like this on Twitter, and write about them on my site.

The git push command is one you'll be using often, and there are tons of

options that can be used with it. I encourage you to read the documentation

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The general form of the command is this:

In the example below, the origin remote is a GitHub repository, and the current branch is main:

(main)\$ git push

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 16 threads Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 274 bytes | 274.00 KiB/s, done.

How to force push a branch in Git

Normally, you will push to a branch and add to its commit history.

Total 3 (delta 0), reused 0 (delta 0)

There are a couple reasons you may want to do this.

The first reason is to fix a mistake—although it is probably better to just

composed of entirely new commits. A rebase creates entirely new commits.

—which changes the commit history:

settle up the differences:

Force push with lease

contributed to the branch.

same as when you last saw it.

on Git

feature:

my-feature

(main)\$ git push --all

* [new branch]

Conclusion

John Mosesman

Tweet a thanks

changes other collaborators have made.

push:

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

(my-feature)\$ git push --force origin my-feature Enumerating objects: 1, done. Counting objects: 100% (1/1), done. Writing objects: 100% (1/1), 184 bytes | 184.00 KiB/s, done. Total 1 (delta 0), reused 0 (delta 0) To github.com:johnmosesman/burner-repo.git + edb64e2...52f54da my-feature -> my-feature (forced update)

value to be the same as the remote-tracking branch we have for them. Basically, you're telling Git to force update this branch only if it looks the

To push to a branch of a different name, you just need to specify the branch you want to push and the name of the branch you want to push to separated by a colon (:).

For example, if you want to push a branch called some-branch to my-

(some-branch)\$ git push origin some-branch:my-feature

Total 0 (delta 0), reused 0 (delta 0)

To github.com:johnmosesman/burner-repo.git

To github.com:johnmosesman/burner-repo.git

b7f661f..6e36148 main -> main

+ 728f0df...8bf04ea some-branch -> my-feature

you can add the --all flag: (main)\$ git branch * main

my-feature -> my-feature

for helpful options and shortcuts.

A simple web developer who likes helping others learn how to program.

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10 to the Power of 0

Git Reset to Remote

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