
For Persistence:

The Tag Is Only See On Our Local Machine.

To See The Tag On The Remote Repository:

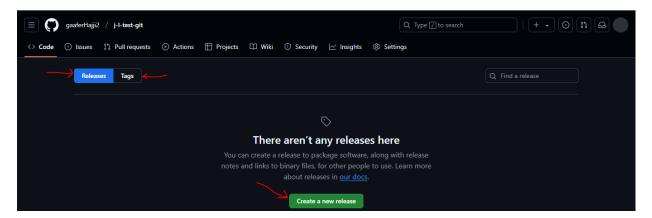
• Run Command: git push origin V1.2

```
9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
git log --oneline --all --graph
58365db (HEAD -> main, tag: V1.2, origin/main) Pick File From Another Branch
* aaca04f (feature/send-email) Update File-01.txt
 a5a1ed5 (feature/shopping-card) Adding Cart.txt
e595bff Update file-01.txt
ba352bf Fix The Bug On The Photo Upload Page.
6969780 Merge branch 'bug-fixing-03' Into Main Branch.
   758dOb3 (bug-fixing-03) Changes The File-05.txt To Test Merging
 df13941 (bug-fixing-02) Adding New File For Fast-Forward Merging
    076b09b Compare Changes For File-03
   048e6e4 Adding New Line For File-04
10b7bed Test Branches For Bug Fixing
   9df8a5c Adding File-03 With Changes To Main Branch
 * 2d80b85 (refs/stash) On main: For Testing The VSCode With Branches
 * 0747d0d index on main: a6f4fa3 Restore File After Deleting
 a6f4fa3 (tag: V1.1) Restore File After Deleting 715de30 Deleting The New File: file-03.txt 1b6514e Adding All Files 43a35dd Second Testing Of Files To Show Output
 c5b550f Testing Short Status Command
edc6933 Removing File From Index/Staging Area
   047d34 Adding By Accident
 014c4b9 Adding .gitignore To Project
2df21af Trying Rename Files
4702e82 After Deleting File2.txt
 c378284 Initial Commit
atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
```

To Delete The Tag That We Pushed, We Use push-Command Also:

To Delete The Tag From Local Machine:

```
> ~/Projects/MarsProject > > P master > v1.0
> 
> dit tag -d v1.0
Deleted tag 'v1.0' (was 478ac2a)
```



Branches Are: **Private** OR **Local** By Default.

```
Tatweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)

§ git branch -vv
bug-fixing-02 df13941 Adding New File For Fast-Forward Merging
bug-fixing-03 758d0b3 Changes The File-05.txt To Test Merging
feature/send-email 58365db Pick File From Another Branch
feature/shopping-card a5aled5 Adding Cart.txt

* main 58365db [origin/main] Pick File From Another Branch
```

```
atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
$ git switch -C feature/change-password
Switched to a new branch 'feature/change-password'
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
$ git branch -r
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
$ touch pass-01.txt
Fatweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
$ git push origin ^C
Fatweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
$ git push origin feature/change-password
Total O (delta O), reused O (delta O), pack-reused O (from O)
remote:
remote: Create a pull request for 'feature/change-password' on GitHub by visiting:
            https://github.com/gaaferHajji2/j-l-test-git/pull/new/feature/change-password
remote:
remote:
To https://github.com/gaaferHajji2/j-l-test-git.git
                     feature/change-password -> feature/change-password
  [new branch]
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
$
```

```
TOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
  git branch -vv
                                df13941 Adding New File For Fast-Forward Merging
758d0b3 Changes The File-05.txt To Test Merging
65b405f [origin/feature/change-password] Adding Test File To Branch
  bug-fixing-02
bug-fixing-03
  feature/send-email
                                58365db Pick File From Another Branch
                                a5aled5 Adding Cart.txt
58365db [origin/main] Pick File From Another Branch
  feature/shopping-card
     eer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (feature/change-password)
$ git switch main
 witched to branch 'main'
 our branch is up to date with 'origin/main'.
    weer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
File-05.txt bin/ cart.txt file-01.txt file-02.txt file-03.txt file-04.txt logs/
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
 git fetch
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 926 bytes | 132.00 KiB/s, done.
From https://github.com/gaaferHajji2/j-l-test-git
58365db..0334557 main -> origin/main
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
File-05.txt bin/ cart.txt file-01.txt file-02.txt file-03.txt file-04.txt logs/
Tatweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
$ git merge feature/change-password
Updating 58365db..65b405f
ast-forward
pass-01.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 pass-01.txt
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
File-05.txt bin/ cart.txt file-01.txt file-02.txt file-03.txt file-04.txt logs/ pass-01.txt
 atweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)
git status
On branch main
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
(use "git pull" to update your local branch)
```

To Get All Remote Branches:

```
Tatweer@DESKTOP-9FV4RTN MINGW64 /c/Tests/Github-And-GitLab/Tutorial-02-Code-With-Mosh (main)

$ git branch -r
origin/feature/change-password
origin/main
```

To Delete Branch From Remote Site:

```
b ~/Projects/MarsProject by feature/change-password
b ~ git push -d origin feature/change-password
To https://github.com/codewithmosh/Mars.git
- [deleted] feature/change-password
```

We Must Also Delete The Branch From Local Machine:

```
projects/MarsProject  feature/change-password
password
feature/change-password
master

projects/MarsProject feature/change-password
```

To Make Our Branch Point To Same Remote Branch That We May Create On GitHub Repository (Not Using Git-Tool):

To Update The Remote Branches On The Other Collaborators:

In This Way We Can Make The Forked Repositories Are Up-To-Date

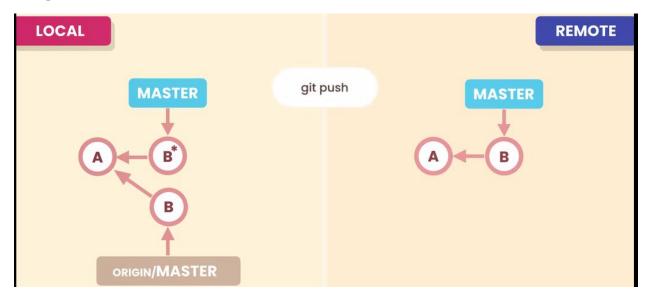
```
bugfix
bugf
```

Also, We Can Do: merge.

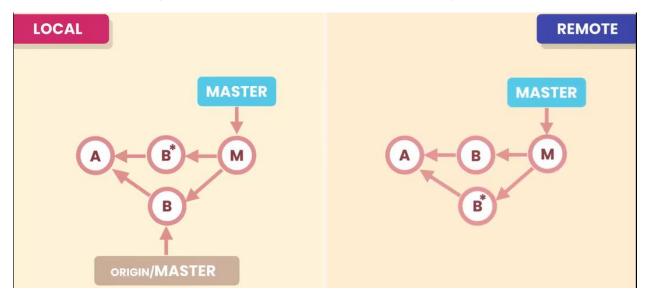
DON'T REWRITE PUBLIC HISTORY!

Commits Are Immutable, If We Make Modify A Commit Then Git Will Create New One Like B And B*

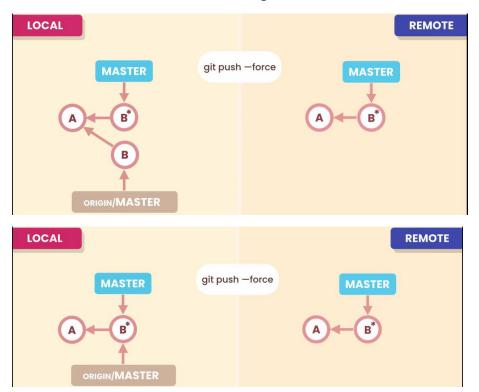
The *push-Command* Will Not Work.



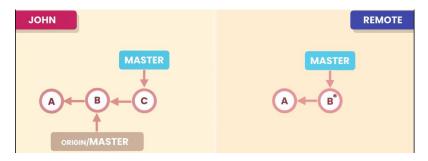
First We Must Merge The Commits, Then Push The Changes:



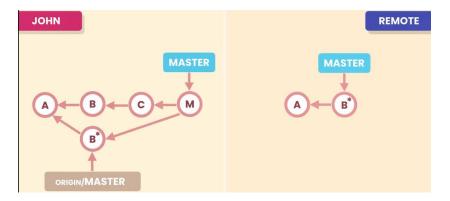
The Alternative Solution To Use push --force:



The Problem With push-Command, For Other Users:



The Solution With *pull-Command*, Then *Merge-Command*, Then *push-Command*: The Bad Solution, So; We Must Remember: *Don't Re-Write The Public History*.





To Revert A Commit, OR A Range Of Commits:

- For Single Commit: git revert HEAD~1
- For Range Of Commit With Exclude The Last One:
 - o Run Command: git revert HEAD~3..HEAD
- In The Way Of Picture We **Emit Head**:
- Also; We Can Delete --no-commit Option.

```
► ~/Projects/Mercury > git 1/2 master

> ✓ git revert --no-commit HEAD~3..

Removing terms.txt
```

We Use This Command, To Commit The Changes That We Made:

• *Note*: Also We Have --abort.

To Recover The Lost Commits, If We RUN git reset by accident:

- Run Command: git reflog
 - o Each Entry Has Unique Identifier.
 - Like: *HEAD*@{1}, *HEAD*@{0}

Then Solution, Also; By Using *reset-Command*: