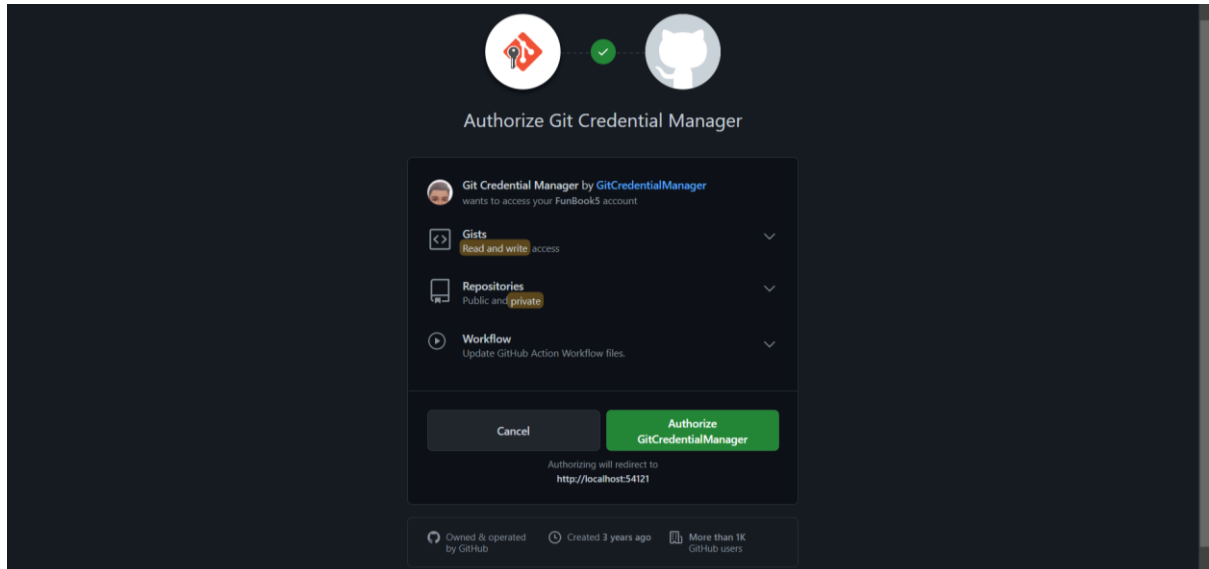


Part 4 – Push, Pull and Merge

When using git push for the first time, it asks for authorisation.



NOTE:

ON GIT COMMIT

If you have committed a wrong file, you can use the following: -

GIT RESET HARD – To remove changes and commits both.

GIT RESET SOFT – To remove just the commit and keep the changes.

GIT RESTORE – Trackback to last git commit.

Step 1 - Let's create a branch and merge it with main branch

```
PS E:\Demo Git Repo>About-Git-and-GitHub> git merge main
Already up to date.
PS E:\Demo Git Repo>About-Git-and-GitHub> git branch demo-branch
PS E:\Demo Git Repo>About-Git-and-GitHub> git branch
demo-branch
* main
PS E:\Demo Git Repo>About-Git-and-GitHub> git checkout demo-branch
Switched to branch 'demo-branch'
PS E:\Demo Git Repo>About-Git-and-GitHub> git status
On branch demo-branch
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Demo Git log can be used to see history of commits.

no changes added to commit (use "git add" and/or "git commit -a")
PS E:\Demo Git Repo>About-Git-and-GitHub> git add README
fatal: pathspec 'README' did not match any files
PS E:\Demo Git Repo>About-Git-and-GitHub> git add README.md
PS E:\Demo Git Repo>About-Git-and-GitHub> git status
On branch demo-branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   README.md
```

Note : To merge the demo – branch you have to be in Main branch, same goes for deletion of demo-branch.

```
PS E:\Demo Git Repo>About-Git-and-GitHub> git branch
demo-branch
* main
PS E:\Demo Git Repo>About-Git-and-GitHub> git checkout demo-branch
Switched to branch 'demo-branch'
M   README.md
PS E:\Demo Git Repo>About-Git-and-GitHub> git commit
[demo-branch 9ec5375] git commit
1 file changed, 1 insertion(+), 1 deletion(-)
PS E:\Demo Git Repo>About-Git-and-GitHub> git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
PS E:\Demo Git Repo>About-Git-and-GitHub> git merge demo-branch
Updating ff24987..9ec5375
Fast-forward
 README.md | 2 +--
 1 file changed, 1 insertion(+), 1 deletion(-)
PS E:\Demo Git Repo>About-Git-and-GitHub> ^C
PS E:\Demo Git Repo>About-Git-and-GitHub>
```

Step 2 – Have to use Git pull before pushing so that your local main synchronises with the remote main branch

```
PS E:\Demo Git Repo\About-Git-and-GitHub> git push
To https://github.com/FunBook5/About-Git-and-GitHub.git
! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/FunBook5/About-Git-and-GitHub.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
PS E:\Demo Git Repo\About-Git-and-GitHub> git pull
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 9 (delta 2), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), 2.25 MiB | 1.69 MiB/s, done.
From https://github.com/FunBook5/About-Git-and-GitHub
  73bae56..bb0103e  main      -> origin/main
Merge made by the 'ort' strategy.
 0.Installing GIT.pdf | Bin 0 -> 227669 bytes
 1.Creating a Git Repository - CLI.pdf | Bin 0 -> 412462 bytes
 2.Adding a commit to the repo - CLI.pdf | Bin 0 -> 796659 bytes
 3.Creating a branch and other functions - CLI.pdf | Bin 0 -> 665069 bytes
 5.Clone and Fork - CLI.pdf | Bin 0 -> 371470 bytes
5 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 0.Installing GIT.pdf
```

```
PS E:\Demo Git Repo\About-Git-and-GitHub> git log -3
commit fd0761bac7d6e52ab515e03f517bd84695d832dc (HEAD -> main)
Merge: 9ec5375 bb0103e
Author: Abhinav Tyagi <abhinavtyagi0059@gmail.com>
Date: Tue Jun 28 11:21:22 2022 +0530

    Merge branch 'main' of https://github.com/FunBook5/About-Git-and-GitHub

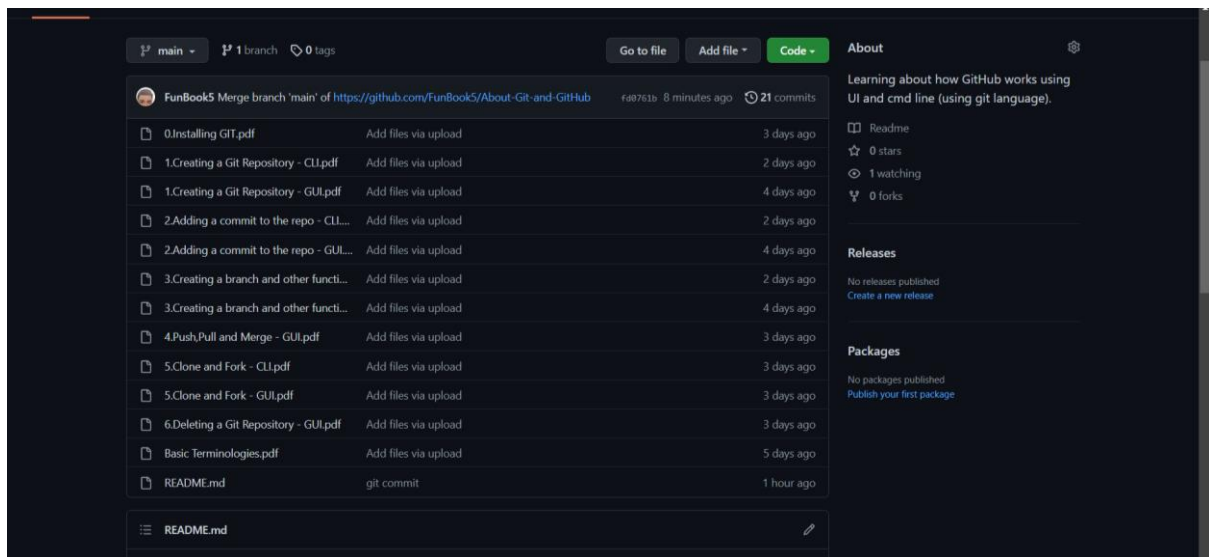
commit 9ec5375c818573ae65c164df9f0687891cf9121e (demo-branch)
Author: Abhinav Tyagi <abhinavtyagi0059@gmail.com>
Date: Tue Jun 28 10:43:38 2022 +0530

    git commit

commit bb0103eb9dcbb2328fac59bc99680cd9dc1bf74f (origin/main, origin/HEAD)
Author: Abhinav Tyagi <108066950+FunBook5@users.noreply.github.com>
Date: Sun Jun 26 12:15:32 2022 +0530

    Add files via upload
PS E:\Demo Git Repo\About-Git-and-GitHub> git push
Enumerating objects: 12, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 848 bytes | 282.00 KiB/s, done.
Total 8 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 3 local objects.
```

You can see git commit in README.



BONUS: -

How to exit git log or git diff [duplicate]

Asked 10 years, 4 months ago Modified 2 years, 2 months ago Viewed 487k times

1176

This question already has answers here:
[How to exit a 'git status' list in a terminal?](#) (16 answers)
Closed 6 years ago.

I'm trying to learn Git with the help of [Git Immersion](#).
There's one thing that frustrates me whenever I use `git log` or `git diff`:

```
$ git hist
* b5c8e41 2012-02-28 |
* e7622d2 2012-02-28 |
* e3ff724 2012-02-28 |
* f98401b 2012-02-28 |
* 1238e7a 2012-02-28 |
* dbb991d 2012-02-28 |
* 7798668 2012-02-28 |
* ab1327d 2012-02-28 |
<END>
```

I can't figure out what to do next when I encounter this `<END>` word.

7 Answers

Sorted by: Highest score (default)
Trending sort available ⓘ

- 1811
- You're in the `less` program, which makes the output of `git log` scrollable.
Type `q` to exit this screen. Type `h` to get help.
- If you don't want to read the output in a pager and want it to be just printed to the terminal define the environment variable `GIT_PAGER` to `cat` or set `core.pager` to `cat` (execute `git config --global core.pager cat`).
- Share Follow
edited Aug 14, 2013 at 7:21
community wiki
4 revs, 2 users 71%
Fred Foo

