

12 Days of Git

DAY3

INSPECT A GIT REPOSITORY

There are times when you will want to check the status of a repository on your local machine, or when you want to look back at the history.

Maybe you haven't touched the repository for a few days and want to check what state you left it in.

Or maybe you have an issue and want to understand why and how to resolve it.

Git status

Git status displays the state of the working directory and the staging area. It will show you any changes which have been staged, which haven't and any files that Git is not tracking.

Git status won't show you the commit history of the repository though. It also shows that changes on the local repository that should be pushed to the remote repository.

```
(base) → PyPi-connectdb git:(main) ✗ git status
On branch main
Your branch is up to date with 'origin/main'.

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

nothing added to commit but untracked files present (use "git add" to track)
(base) → PyPi-connectdb git:(main) ✗ git add update.py
(base) → PyPi-connectdb git:(main) ✗ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
      new file:   update.py

(base) → PyPi-connectdb git:(main) ✗ git commit -m "chore: Updated version of package
fixed connection issues
"
[main 3cf29ce] chore: Updated version of package
1 file changed, 32 insertions(+)
create mode 100644 update.py
(base) → PyPi-connectdb git:(main) git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
(base) → PyPi-connectdb git:(main) █
```

Git log

Git log is the command you want to use to see the repositories commit history.

The **space bar** to help you **scroll down** and you can **exit** it using **q**.

```
git log
```

```
commit 3cf29cede155e5378b1540150f04f659f3f2f8c2 (HEAD -> main)
Author: Arjun Panwar <arjun.panwar@koireder.com>
Date:   Tue Nov 8 22:37:45 2022 +0530

    chore: Updated version of package

    fixed connection issues

commit 79861774144aaff2c0b543bfbf2da04e8b7fcf25 (origin/main, origin/HEAD)
Author: Arjun Panwar <59289088+arjun-panwar@users.noreply.github.com>
Date:   Fri Sep 3 01:05:13 2021 +0530

    Update README.md
```

```
git log --oneline
```

```
git log --oneline
3cf29ce (HEAD -> main) chore: Updated version of package
7986177 (origin/main, origin/HEAD) Update README.md
fe642dc Add files via upload
00e1f5d Add files via upload
873d95b Initial commit
~
~
(END)
```

To display the last three commits for you.

```
git log -n 3
```

To see what files were altered and how many lines were added or removed for each commit

```
git log --stat
```

Git blame

Git blame is a useful command if you want to understand who authored a certain change in the history of the repository. You can't just use git blame across the repository you need to specify a specific file you want to query.

```
git blame README.md
```

```
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 1)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 2) # ConnectDB
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 3)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 4) Connect python with Mysql, MongoDB, Cassandra database
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 5)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 6) ### Installation
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 7) Run below commandto install whole package
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 8)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 9) ```pip install connectdb```
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 10)
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 11) For only Mysql
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 12) ```pip install -U connectdb[mysql_db]```
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 13)
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 14) For only MongoDB
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 15) ```pip install -U connectdb[mongodb]```
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 16)
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 17) For only Cassandra
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 18) ```pip install -U connectdb[cassandra_db]```
79861774 (Arjun Panwar 2021-09-03 01:05:13 +0530 19)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 20) ## Mysql
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 21)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 22) #### prerequisite
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 23) mysql-connector-pythonmust be installed
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 24) To install it, run below command
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 25)
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 26) ```pip install mysql-connector-python```
fe642dcb (Arjun Panwar 2021-09-02 14:56:30 +0530 27)
```

For more visit:

<https://www.techielass.com/inspect-a-git-repository/>

git status



git log

