

**GIT COMMANDS:-**

- |                       |                                |
|-----------------------|--------------------------------|
| 1) git init           | 6) git revert <commitid>       |
| 2) git status         | 7) git reset --hard            |
| 3) git add            | 8) git reset --soft            |
| 4) git commit -m ".." | 9) git update-ref -d HEAD      |
| 5) git log            | 10) git rm --cached <filename> |

**Create a folder and initialize git:-**

```

MINGW64/c/Users/pratik/gitfolder

pratik@TheRock MINGW64 ~
$ ls
-1.14-windows.xml      Music/
AndroidStudioProjects/ 'My Documents'@
AppData/               NTUSER.DAT
'Application Data'@    NTUSER.DAT{99104d27-4fc6-11ee-b930-e01f5dae8a0c}.TM.blf
Contacts/              NTUSER.DAT{99104d27-4fc6-11ee-b930-e01f5dae8a0c}.TMContainer00000000000000000001.reg
Cookies@               NTUSER.DAT{99104d27-4fc6-11ee-b930-e01f5dae8a0c}.TMContainer00000000000000000002.reg
Desktop/               NetHood@
Downloads/             Newsproject.html
Favorites/             OneDrive/
IntelGraphicsProfiles/ Pictures/
Links/                 PrintHood@
'Local Settings'@      Recent@

pratik@TheRock MINGW64 ~
$ mkdir gitfolder

pratik@TheRock MINGW64 ~
$ cd gitfolder

pratik@TheRock MINGW64 ~/gitfolder
$ ls

pratik@TheRock MINGW64 ~/gitfolder
$ ls -a
./  ../

pratik@TheRock MINGW64 ~/gitfolder
$ git init
Initialized empty Git repository in C:/Users/pratik/gitfolder/.git/

pratik@TheRock MINGW64 ~/gitfolder (master)
$ ls -a
./  ../  .git/

```

**Create a file:-**

```

Untitled-1.py X

C: > Users > pratik > gitfolder > Untitled-1.py
1  "Hello This is user1"

```

**Check Status:-****UNTRACKED**

```

pratik@TheRock MINGW64 ~/gitfolder (master)
$ ls
Untitled-1.py

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Untitled-1.py

nothing added to commit but untracked files present (use "git add" to track)

pratik@TheRock MINGW64 ~/gitfolder (master)
$ |

```

**Pass into staged area:-**

```
$ git add Untitled-1.py

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   Untitled-1.py
```

**Commit the file:-**

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git commit -m "This is version one" Untitled-1.py
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'pratik@TheRock.(none)')

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git config --global user.email "pratikborge37@gmail.com"

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git config --global user.name "Pratik"

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git commit -m "This is version one" Untitled-1.py
[master (root-commit) 1458340] This is version one
 1 file changed, 1 insertion(+)
 create mode 100644 Untitled-1.py
```

**Update the file:-**

```
Untitled-1.py ●

C: > Users > pratik > gitfolder > Untitled-1.py
 1  "Hello This is user1"
 2  "THIS IS ONLY FOR DEMO"
```

**Check Status:-****MODIFIED**

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master
nothing to commit, working tree clean

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master
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:   Untitled-1.py

no changes added to commit (use "git add" and/or "git commit -a")

pratik@TheRock MINGW64 ~/gitfolder (master)
```

Pass into staged area:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git add Untitled-1.py

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Untitled-1.py
```

Commit the new version:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git commit -m "This is new version" Untitled-1.py
[master b5b7a97] This is new version
 1 file changed, 2 insertions(+), 1 deletion(-)

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master
nothing to commit, working tree clean

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git log
commit b5b7a97e457866c483c15f25474dbfaa18fe322d (HEAD -> master)
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:57:32 2024 +0530

    This is new version

commit 145834005d220a5b3e700bb7c04f476565c701c9
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:47:23 2024 +0530

    This is version one
```

Check commitid and revert the commit:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git log --oneline
b5b7a97 (HEAD -> master) This is new version
1458340 This is version one

pratik@TheRock MINGW64 ~/gitfolder (master)
$ ^C

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git revert b5b7a97
[master 58aca1b] Revert "This is new version"
 1 file changed, 1 insertion(+), 2 deletions(-)
```

Check log and you will notice another commit is created by reverting the commit:-

```
1 file changed, 1 insertion(+), 2 deletions(-)

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git log
commit 58aca1b491d05a9547859b51f9fcf0e1d6920252 (HEAD -> master)
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 11:00:34 2024 +0530

    Revert "This is new version"

    This reverts commit b5b7a97e457866c483c15f25474dbfaa18fe322d.

    On branch master
    Changes to be committed:
        modified:   Untitled-1.py

commit b5b7a97e457866c483c15f25474dbfaa18fe322d
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:57:32 2024 +0530

    This is new version

commit 145834005d220a5b3e700bb7c04f476565c701c9
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:47:23 2024 +0530

    This is version one
```

Using reset --soft command:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git reset --soft HEAD~1
```

Check log:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git log
commit b5b7a97e457866c483c15f25474dbfaa18fe322d (HEAD -> master)
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:57:32 2024 +0530

    This is new version

commit 145834005d220a5b3e700bb7c04f476565c701c9
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:47:23 2024 +0530

    This is version one
```

Using reset --hard command:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git reset --hard HEAD~1
HEAD is now at 1458340 This is version one

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git log
commit 145834005d220a5b3e700bb7c04f476565c701c9 (HEAD -> master)
Author: Pratik <pratikborge37@gmail.com>
Date:   Wed Feb 14 10:47:23 2024 +0530

    This is version one
```

Use “git update-ref -d HEAD” to uncommit the initial commit:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git update-ref -d HEAD

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Untitled-1.py
```

To remove file from staged area:-

```
pratik@TheRock MINGW64 ~/gitfolder (master)
$ git rm --cached Untitled-1.py
rm 'Untitled-1.py'

pratik@TheRock MINGW64 ~/gitfolder (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Untitled-1.py

nothing added to commit but untracked files present (use "git add" to track)

pratik@TheRock MINGW64 ~/gitfolder (master)
$
```