# Git revert

- The revert command helps you undo an existing commit.
- → It does not delete any data in this process instead rather git creates a new commit with the included files reverted to their previous state so your version control history moves forward while the state of your files moves backward.

## **Difference between reset and revert**

```
Reset -> we use reset command before commit
```

**Revert ->** we use revert command after commit

```
git status

cat > newfile {create one new file }
   hi, final code for app

git add

git commit -m "I am demo"

git log -oneline
```

git revert < commit -id >

```
root@ip-172-31-43-31/home/ubuntu/satyam# cat >revertfile.txt
Hello satyam tripathi this is your again revert file
root@ip-172-31-43-31;/home/ubuntu/satyam# git add .
root@ip-172-31-43-31;/home/ubuntu/satyam# git commit -m "2 nd tme revert file commit
[master 6c8b9fe] 2 nd tme revert file commit -m "2 nd tme revert file commit
[committer: root <root@ip-172-31-43-31.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
    git config --global --edit

After doing this, you may fix the identity used for this commit with:
    git commit --amend --reset-author

1 file changed, 1 insertion(+), 1 deletion(-)
    root@ip-172-31-43-31;/home/ubuntu/satyam# git log
    commit 6c8b9feaace6d4ab5a49382c2fa71b01a4213785c (HEAD -> master)
Author: root <root@ip-172-31-43-31.ap-south-1.compute.internal>
Date: Mon Oct 18 13:35:55 2021 +0000

2 nd tme revert file commit

commit 55f93e50090923626152b60900a1203e7164abb2
Author: root <root@ip-172-31-43-31.ap-south-1.compute.internal>
Date: Mon Oct 18 13:29:20 2021 +0000

1st time revert file commit
```

### root@ip-172-31-43-31:/home/ubuntu/satyam# cat revertfile.txt Hello satyam tripathi this is your again revert file

```
root@ip-172-31-43-31:/home/ubuntu/satyam# git revert 6c8b9feaeace64ab5a4938c2fa71b01a4213785c
[master 799efce] Revert "2 nd tme revert file commit" please ignore this commit [master 799efce] Revert "2 nd tme revert file commit" please ignore this commit [committer: root kroot&pip-172-31-43-31, ap-south-1.compute.internal>
Your name and email address were configured automatically based on your username and hostname. Please check that they are accurate. You can suppress this message by setting them explicitly. Run the following command and follow the instructions in your editor to edit your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 1 insertion(+), 1 deletion(-)

root@ip-172-31-43-31:/home/ubuntu/satyam#
```

### How to remove untracked files

```
git clean -n (they ask you before removing your files)
```

```
git clean –f (delete files forcefully)
```

```
root@ip-172-31-43-31:/home/ubuntu/satyam# touch hello.txt hello1.txt hello2.txt
root@ip-172-31-43-31:/home/ubuntu/satyam# ls
HEAD branches config description hello.txt hello1.txt hello2.txt hooks info objects refs revertfile.txt tripathi1.txt
root@ip-172-31-43-31:/home/ubuntu/satyam# git status
On branch master
Untracked files:

(use "git add <file>..." to include in what will be committed)
    hello1.txt
    hello1.txt
    hello2.txt

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-43-31:/home/ubuntu/satyam# git clean -n
Would remove hello1.txt
Would remove hello1.txt
Would remove hello2.txt
root@ip-172-31-43-31:/home/ubuntu/satyam# git clean -f
Removing hello1.txt
Removing hello1.txt
Removing hello1.txt
Removing hello2.txt
root@ip-172-31-43-31:/home/ubuntu/satyam# ls
HEAD branches config description hooks info objects refs revertfile.txt tripathi1.txt
root@ip-172-31-43-31:/home/ubuntu/satyam#
```

#### **GIT TAG**

- Tag operations allows giving meaningful to a specific version in a repository.
- If you want to apply tag in your commit you use tag command.

# To apply tag:-

git tag -a <tagname> -m <message what you want><commit -ID>

### To see all the list of the tags :-

git tag

### To see particular Commit Content by using tag:-

git show <tagname>

### To delete a tag:-

git tag -d <tagname>

on root@ip-172-31-43-31: /home/ubuntu/satyam

```
root@ip-172-31-43-31:/home/ubuntu/satyam# git log --oneline
<mark>799efce (HEAD -> master) Revert "2 nd tme revert file commit" please ignore this commit</mark>
5c8b9fe 2 nd tme revert file commit
55f93e5 1st time revert file commit
6712b2a (satyam1) this is a demo file
root@ip-172-31-43-31:/home/ubuntu/satyam# git tag
root@ip-172-31-43-31:/home/ubuntu/satyam# git tag -a satyamtag1 -m "this is 1 st tag "55f93e5
root@ip-172-31-43-31:/home/ubuntu/satyam# git tag
satyamtag1
oot@ip-172-31-43-31:/home/ubuntu/satyam# git show satyamtag1
ag satyamtag1
Tagger: root <root@ip-172-31-43-31.ap-south-1.compute.internal>
Date: Mon Oct 18 14:04:00 2021 +0000
this is 1 st tag 55f93e5
commit 799efce90798673954cd72183c3e34a9b3c2c6c4 (HEAD -> master, tag: satyamtag1)
Author: root <root@ip-172-31-43-31.ap-south-1.compute.internal>
       Mon Oct 18 13:39:35 2021 +0000
   Revert "2 nd tme revert file commit" please ignore this commit
   This reverts commit 6c8b9feaeace64ab5a4938c2fa71b01a4213785c.
diff --git a/revertfile.txt b/revertfile.txt
index 936d59b..75e5623 100644
-- a/revertfile.txt
+++ b/revertfile.txt
@ -1 +1 @@
root@ip-172-31-43-31:/home/ubuntu/satyam# 💂
```

# **Git Clone**

- → Open github website
- → Login and chose existing directory
- Now, go to your linux machine and run command
- → git clone < url of git repository>
- it creates a loca repo automatically linux machine with the same name as in github account.