

git tag will give a label to the commit

```
fms@git_practice:~/dev_flowers/sample-project$ git tag -a "creating tag after creating candy.sh"
```

```
fatal: 'creating tag after creating candy.sh' is not a valid tag name.
```

```
fms@git_practice:~/dev_flowers/sample-project$ git tag -a v1.0 -m "creating tag after creating candy.sh"
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

To list the tags, use git tag

```
fms@git_practice:~/dev_flowers/sample-project$ git tag
```

```
v1.0
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git show v1.0
```

```
tag v1.0
```

```
Tagger: Dev-Flowers <dev_flowers@FLOWERS.com>
```

```
Date: Tue Nov 6 16:10:48 2018 +0530
```

creating tag after creating candy.sh

```
commit b52fa475a63ec7138d999039370941483bbcaa66 (HEAD -> branch_one, tag: v1.0, origin/branch_one)
```

```
Author: Dev-Flowers <dev_flowers@FLOWERS.com>
```

```
Date: Tue Nov 6 15:41:46 2018 +0530
```

new file candy.sh

```
diff --git a/candy.sh b/candy.sh
```

```
new file mode 100644
```

```
index 0000000..02d6e6d
```

```
--- /dev/null
```

```
+++ b/candy.sh
```

```
@@ -0,0 +1 @@
```

```
+chocolates
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

To delete a tag

```
fms@git_practice:~/dev_flowers/sample-project$ git tag -d v1.0
```

```
Deleted tag 'v1.0' (was 1efc66e)
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git tag
```

```
fms@git_practice:~/dev_flowers/sample-project$ git show v1.0
```

```
fatal: ambiguous argument 'v1.0': unknown revision or path not in the working tree.
```

```
Use '--' to separate paths from revisions, like this:
```

```
'git <command> [<revision>...] -- [<file>...']
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

The tag we created got deleted.

```
fms@git_practice:~/dev_flowers/sample-project$ ls -al
```

```
total 32
```

```
drwxr-xr-x 3 fms fms 4096 Nov  6 15:44 .
```

```
drwxr-xr-x 3 fms fms 4096 Nov  6 13:21 ..
```

```
-rw-r--r-- 1 fms fms 414 Nov  6 15:43 0001-new-file-candy.sh.patch
```

```
-rw-r--r-- 1 fms fms  19 Nov  6 15:37 buds.cpp
```

```
-rw-r--r-- 1 fms fms  11 Nov  6 15:44 candy.sh
```

```
drwxr-xr-x 8 fms fms 4096 Nov  6 16:12 .git
```

```
-rw-r--r-- 1 fms fms  7 Nov  6 15:37 .gitignore
```

```
-rw-r--r-- 1 fms fms  12 Nov  6 15:37 sweets.py
```

To remove untracked files from the working tree use git clean

```
fms@git_practice:~/dev_flowers/sample-project$ git clean
```

```
fatal: clean.requireForce defaults to true and neither -i, -n, nor -f given;  
refusing to clean
```

```
fms@git_practice:~/dev_flowers/sample-project$ git clean -i
```

```
Would remove the following item:
```

```
0001-new-file-candy.sh.patch
```

```
*** Commands ***
```

```
1: clean          2: filter by pattern  3: select by numbers  4: ask  
each             5: quit           6: help
```

```
What now> 1
```

```
Removing 0001-new-file-candy.sh.patch
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ ls -al
```

```
total 28
```

```
drwxr-xr-x 3 fms fms 4096 Nov  6 16:14 .
```

```
drwxr-xr-x 3 fms fms 4096 Nov  6 13:21 ..
```

```
-rw-r--r-- 1 fms fms 19 Nov 6 15:37 buds.cpp
-rw-r--r-- 1 fms fms 11 Nov 6 15:44 candy.sh
drwxr-xr-x 8 fms fms 4096 Nov 6 16:12 .git
-rw-r--r-- 1 fms fms 7 Nov 6 15:37 .gitignore
-rw-r--r-- 1 fms fms 12 Nov 6 15:37 sweets.py
fms@git_practice:~/dev_flowers/sample-project$
```

To see what has been changed after a certain time, use `git whatchanged`.

```
fms@git_practice:~/dev_flowers/sample-project$ git whatchanged
--since="2 hour ago" -- candy.sh
commit b52fa475a63ec7138d999039370941483bbcaa66 (HEAD ->
branch_one, origin/branch_one)
Author: Dev-Flowers <dev_flowers@FLOWERS.com>
Date: Tue Nov 6 15:41:46 2018 +0530
```

new file candy.sh

```
:000000 100644 0000000 02d6e6d A candy.sh
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git whatchanged
--since="4 hour ago" -- buds.cpp
commit 803fdf4b2bd9eb7b2f5e870e4b7a456268b29492
Author: Dev-Colors <dev_colors@COLORS.com>
Date: Tue Nov 6 15:16:17 2018 +0530
```

renamed flowers.c to buds.c

```
:000000 100644 0000000 3360a33 A buds.cpp
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git whatchanged
--since="2 hour ago" -- sweets.py
fms@git_practice:~/dev_flowers/sample-project$
```

We will understand `git stash` command.

```
fms@git_practice:~/dev_flowers/sample-project$ ls
buds.cpp candy.sh sweets.py
fms@git_practice:~/dev_flowers/sample-project$ vi emptyfile.txt
fms@git_practice:~/dev_flowers/sample-project$ cat emptyfile.txt
empty file
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git status
```

```
On branch branch_one
```

```
Untracked files:
```

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

```
emptyfile.txt
```

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

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git add emptyfile.txt
```

```
fms@git_practice:~/dev_flowers/sample-project$ git status
```

```
On branch branch_one
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
new file: emptyfile.txt
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

We have this new file in staging area. If we do not want to commit this change now, we can record the changes in this file using git stash. This will save the changes made and reset the workspace to point to HEAD.

```
fms@git_practice:~/dev_flowers/sample-project$ git stash
```

```
Saved working directory and index state WIP on branch_one: b52fa47 new file candy.sh
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git status
```

```
On branch branch_one
```

```
nothing to commit, working tree clean
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git stash list
```

```
stash@{0}: WIP on branch_one: b52fa47 new file candy.sh
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git stash show
```

```
emptyfile.txt | 1 +
```

```
1 file changed, 1 insertion(+)
```

```
fms@git_practice:~/dev_flowers/sample-project$
```

```
fms@git_practice:~/dev_flowers/sample-project$ git stash drop
Dropped refs/stash@{0} (2acd91b3736e9a91d23be8bab30f2b974854c0cd)
fms@git_practice:~/dev_flowers/sample-project$
fms@git_practice:~/dev_flowers/sample-project$ git stash list
fms@git_practice:~/dev_flowers/sample-project$
fms@git_practice:~/dev_flowers/sample-project$ git status
On branch branch_one
nothing to commit, working tree clean
fms@git_practice:~/dev_flowers/sample-project$
```

Git commands covered so far:

24. git tag
25. git clean
26. git whatchanged
27. git stash