

Git - Tag Operation

Tag operation allows giving meaningful names to a specific version in the repository. Suppose Tom and Jerry decide to tag their project code so that they can later access it easily.

Create Tags

Let us tag the current HEAD by using the **git tag** command. Tom provides a tag name with -a option and provides a tag message with -m option.

```
tom@CentOS project]$ pwd
/home/tom/top_repo/project

[tom@CentOS project]$ git tag -a 'Release_1_0' -m 'Tagged basic string operation code'
```

If you want to tag a particular commit, then use the appropriate COMMIT ID instead of the HEAD pointer. Tom uses the following command to push the tag into the remote repository.

```
[tom@CentOS project]$ git push origin tag Release_1_0
```

The above command will produce the following result –

```
Counting objects: 1, done.
Writing objects: 100% (1/1), 183 bytes, done.
Total 1 (delta 0), reused 0 (delta 0)
To gituser@git.server.com:project.git
* [new tag]
Release_1_0 -> Release_1_0
```

View Tags

Tom created tags. Now, Jerry can view all the available tags by using the Git tag command with -l option.

```
[jerry@CentOS src]$ pwd
/home/jerry/jerry_repo/project/src

[jerry@CentOS src]$ git pull
remote: Counting objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (1/1), done.
From git.server.com:project
* [new tag]
Release_1_0 -> Release_1_0
Current branch master is up to date.

[jerry@CentOS src]$ git tag -l
Release_1_0
```

Jerry uses the Git show command followed by its tag name to view more details about tag.

```
[jerry@CentOS src]$ git show Release_1_0
```

The above command will produce the following result –

```
tag Release_1_0
Tagger: Tom Cat <tom@tutorialspoint.com>
Date: Wed Sep 11 13:45:54 2013 +0530

Tagged basic string operation code

commit 577647211ed44fe2ae479427a0668a4f12ed71a1
Author: Tom Cat <tom@tutorialspoint.com>
Date: Wed Sep 11 10:21:20 2013 +0530

Removed executable binary

diff --git a/src/string_operations b/src/string_operations
deleted file mode 100755
index 654004b..0000000
Binary files a/src/string_operations and /dev/null differ
```

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Delete Tags

Tom uses the following command to delete tags from the local as well as the remote repository.

```
[tom@CentOS project]$ git tag  
Release_1_0
```

```
[tom@CentOS project]$ git tag -d Release_1_0  
Deleted tag 'Release_1_0' (was 0f81ff4)  
# Remove tag from remote repository.
```

```
[tom@CentOS project]$ git push origin :Release_1_0  
To gituser@git.server.com:project.git  
- [deleted]  
Release_1_0
```