

Part 4 : GIT LOG AND GIT SHOW

GIT LOG COMMAND -

- Usage : to check the all the log information of commit on a repository

SYNTAX :

git log

- Shows the latest commit log at the top
- Log shows - commit id, author, date, commit message details

git log --oneline → shows SHA1ID(Commit ID) and commit message

```
[root@localhost git_java]# git log --oneline
ef3fbb2 .
164ed2e .
73e175d files t1 t2
14ae7b3 this is first commit on code
[root@localhost git_java]#
```

Q. To View all logs on Local Repository -

```
# git log --all
```

Q. To view only few specified latest logs -

```
# git log -n
```

 → Here replace -n with number, example :

```
# git log -3
```

```
git log -3
```

Q. To view commits done by author or committer -

```
# git log --author <name>
```

```
# git log --committer <name>
```

Example :

```
# git log --author=Bob
```

Q. How to get the git log based given date range-

```
# git log --before <date>
```

```
# git log --after <date>
```

```
# git log --after <date> --before <date>
```

Note :

- date can be specified as a string with the format: "yyyy-mm-dd"

Example :

```
$ git log --after "2014-02-01" --before "2014-02-02"
commit 69e1684ae9605544707fc36a7bf37da93dc7b015
Author: Bob Smith <BSmith@example.com>
Date:   Sun Feb 2 01:26:00 2014 -0400
```

* Q. How to view the changes on each commit ?

- To view the entire diff of changes for each commit found, use the -p option

git log -p

Q. How to View Summary of Changes for Each Commit ?

- The --stat option displays the number of insertions and deletions to each file altered by each commit

git log --stat

```
commit f2a238924e89ca1d4947662928218a06d39068c3
Author: John <john@example.com>
Date: Fri Jun 25 17:30:28 2014 -0500
Add a new feature
hello.py | 105 ++++++-----
1 file changed, 67 insertion(+), 38 deletions(-)
```

Q. How to View Just One Line log Per Commit ?

- To just get the bare minimum information in a single line per commit, use the `--oneline` option.

git log --oneline

```
0e25143 Merge branch 'feature'
ad8621a Fix a bug in the feature
16b36c6 Add a new feature
23ad9ad Add the initial code base
```

Q. How to view Git log commits based on File name in Local Repo ?

```
# git log -- <file_name> <file_name2> .. <file_name n>
```

- It will return all the commits that are affected by file_name

```
git log -- foo.py bar.py
```

Q. How to view git log commits based on message ?

- Use --grep flag

git log --grep="message"

```
git log --grep="JIRA-224:"
```

Note :

- We can use -i flag along with git log --grep to ignore the case sensitivity of message

git log -i --grep="message"

GIT SHOW COMMAND

- It shows commit details and changes made information.

git show

- To see particular commit information

git show <commit_id>

THANK YOU