Using GIT

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Contents

1   Install

```
sudo apt-get install/update git
```

2   Usage

2.1   Elementary usage

- Create a directory

  ```
  mkdir project1
  ```

- Initialize it as a git project

  ```
  git init
  ```

- Check the status of project

```
git status
```

- Add file(s) to `git`

  Add single file.

  ```
  git add <FILENAME>
  ```

  Add all files

  ```
  git add .
  ```

  Add all file in present directory

  ```
  git add *
  ```

- Make `commit`

  With one line message

  ```
  git commit -m "MESSAGE"
  ```

  Open default text editor to write descriptive message.

  ```
  git commit
  ```

  Add and commit at the same time

  ```
  git commit -am "MESSAGE"
  ```

- View logs(commits)

  ```
  git log
  ```

- View `diff` between unstage file(s)

  Entire `diff`

  ```
  git diff
  ```

  File specific `diff`

  ```
  git diff <FILENAME>
  ```

- Show commit hash specific state of a file.

```
git show <COMMIT HASH>:<FILENAME>
```

- Reset to previous commit

```
git reset --hard <COMMIT HASH>
```

2.2 Intermediate usage

- Branching
  Create branch

```
git branch <BRANCH NAME>
```

  Delete branch

```
git branch -d <BRANCH NAME>
```

  Change branch

```
git checkout <BRANCH NAME>
```

  Merge branch

```
git merge <BRANCH NAME>
```

2.3 Remotes

- Manage git remotes
  View remote host

```
git remote -v
```

  Add remote

```
git remote add <REMOTE NAME> <REMOTE URL>
```

  Example:

```
git remote add origin https://github.com/iitbaakash/project1.git
```

  Remove remote

```
git remote remove <REMOTE NAME>
```

Example

```
git remote remove origin
```

2.4   Push/Pull

- Manage push/pull

  Push source for the first time

  ```
  git push -u <REMOTE NAME> <BRANCH NAME>
  ```

  and then

  ```
  git push
  ```

  Pull source from remote(assuming that the remote is already been added)

  ```
  git pull
  ```