GIT Commands

Mac OS version {Compatible with macOS 10.13 and later}

Some commands are compatible with Windows

Git Basics

- **GIT CONFIG** :

  - **Command :** git config --global user.name "User Name"

    Global command is used for global. Local will be used for local

  - **Command :** git config --global user.email example@mail.com

    Global command is used for global. Local will be used for local

- **MAKE DIRECTORY | REMOVE DIRECTORY {MAC OS}**:

  - **Purpose** : A storage for source code

  - **Make** : mkdir <folder name>

  - **Remove** : rm -r <folder name>

- **GIT REPOSITORY** :

  - Make Repository :

    Purpose : We need src folder under git observation.

    Command : git init

    Command Use : Make Local Repository
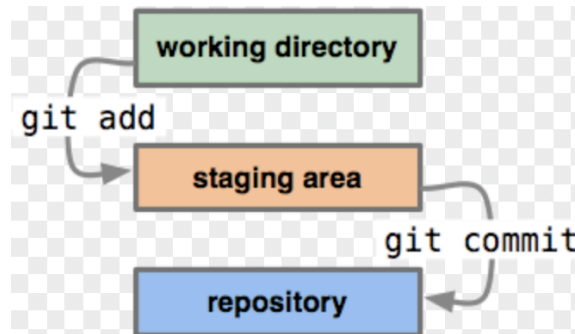
    Comments : After running the command pc will create .git folder in same src folder. And it will be hidden because the name starts with '.'

- Remove Repository {Mac OS}:

  1.) **Command :** ls -a {To Find all folders}

  2.) **Command :** rm -r .git {-r for recursive }

- **GIT PROCESS** :

- **GIT STAGING** :

  - **Command :** git add <file name>

  - **Command Use :** Add file from tree to staging

- **GIT STATUS** :

  Here I have made second.py

  /Users/harshschaudhari/Desktop/python_src/project_1/second.py

  - **Command** : git status

  - **Command Use** : To get git current status

  - **Command photo** :
  ```
  harshschaudhari@Harshs-MacBook-Pro project_1 % git status
  On branch master
  Untracked files:
    (use "git add <file>..." to include in what will be committed)

          second.py

  harshschaudhari@Harshs-MacBook-Pro project_1 %
  ```

- **GIT COMMIT** :

  - **Command :** git commit -m "Message"

  - **Command 2 :** git commit

  - **Command Use :** Add file from tree to staging

  - **Command Photo :**

```
harshschaudhari@Harshs-MacBook-Pro project_1 % git commit -m "This is a demo commit"
[master abdcc3c] This is a demo commit
 1 file changed, 2 insertions(+)
 create mode 100644 second.py
```
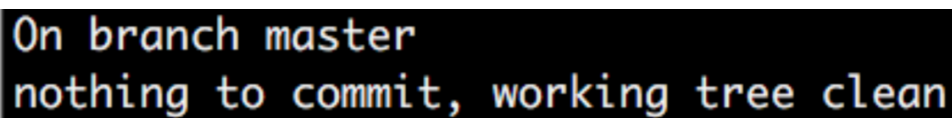
- **MAKE DIRECTORY | REMOVE DIRECTORY {MAC OS}:**

  - **Make** : mkdir <folder name>

  - **Remove** : rm -r <folder name>

- **GIT STATUS** :

  Here I have made second.py

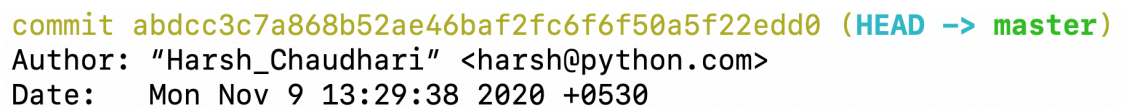 /Users/harshschaudhari/Desktop/python_src/project_1/second.py

  - **Command** : git status

  - **Command Use** : To get git current status

  - **Command photo** :

  ```
  On branch master
  nothing to commit, working tree clean
  ```

- **GIT LOG** :

  - **Command :** git log

  - **Command Use :** The command shows the all git history

  - **Command Photo :**

  ```
  commit abdcc3c7a868b52ae46baf2fc6f6f50a5f22edd0 (HEAD -> master)
  Author: "Harsh_Chaudhari" <harsh@python.com>
  Date:   Mon Nov 9 13:29:38 2020 +0530

      This is a demo commit
  ```

- **GIT CHECKOUT** :

  - **Command :** git checkout

  - **Command Use :** To pull last stage version from staging to working tree it will remove latest changes from working tree

- **GIT FILE LOG** :

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- **Command :** git log -- file name

- **Command Use :** <u>To see all history of a specific file</u>

- **Command Photo :**

```
commit abdcc3c7a868b52ae46baf2fc6f6f50a5f22edd0 (HEAD -> master)
Author: "Harsh_Chaudhari" <harsh@python.com>
Date:   Mon Nov 9 13:29:38 2020 +0530

    This is a demo commit

commit 4db4936afc34123c35dc86456c146bdd80f9c5ec
Author: "Harsh_Chaudhari" <harsh@python.com>
Date:   Sun Nov 8 18:07:53 2020 +0530

    after delete commit

commit 79b1b0a8e14b2e585a17938f6a454cb7165971e5
Author: "Harsh_Chaudhari" <harsh@python.com>
Date:   Sun Nov 8 17:57:15 2020 +0530

    This is a new file
harshschaudhari@Harshs-MacBook-Pro project_1 %
```

- **GIT CHECKOUT FROM COMMIT :**

  - **Command :** git checkout <1s 5 digits of commit> -- filename

  - **Command Use :** <u>To pull last stage version from commit to working tree</u>

  - **Command Photo :**

```
harshschaudhari@Harshs-MacBook-Pro project_1 % git checkout 79b1b -- second.py
harshschaudhari@Harshs-MacBook-Pro project_1 % ls
basic_git.py    demo.py         second.py        third.py
harshschaudhari@Harshs-MacBook-Pro project_1 %
```

NEXT REMOTE GIT

WE WILL DO IT FROM

GitHub {GitHub.com}

STAY STUNED FOR NEXT UPDATES