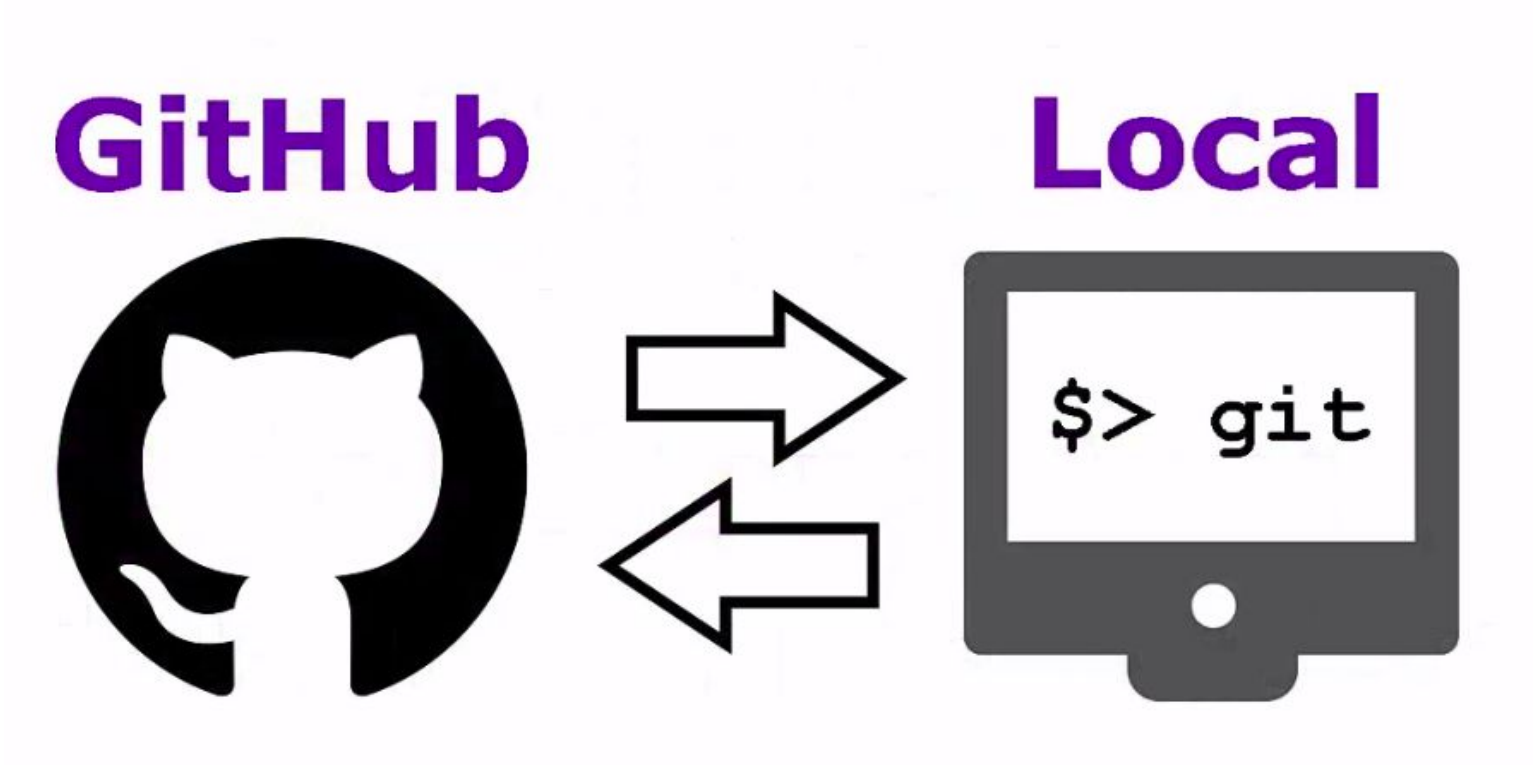
Part 5 - CLONE, PUSH CHANGES TO GITHUB



STEPS TO CLONE FROM GITHUB -

STEP 1 - Make sure git config settings are configured

- Make sure that Local Machine is already configured with git config user.name and user.email, failure to do this step will cause the error messages while commit.

Example :

- To verify the git config settings a global level

```
$ git config --global --list
```

STEP 2 - Get the https link of Repository from github

- Make sure that https is selected before you copy the clone link into clipboard

STEP 3 - Execute the git clone command

- Make sure that you are in Projects folder on Local folder, then execute below command

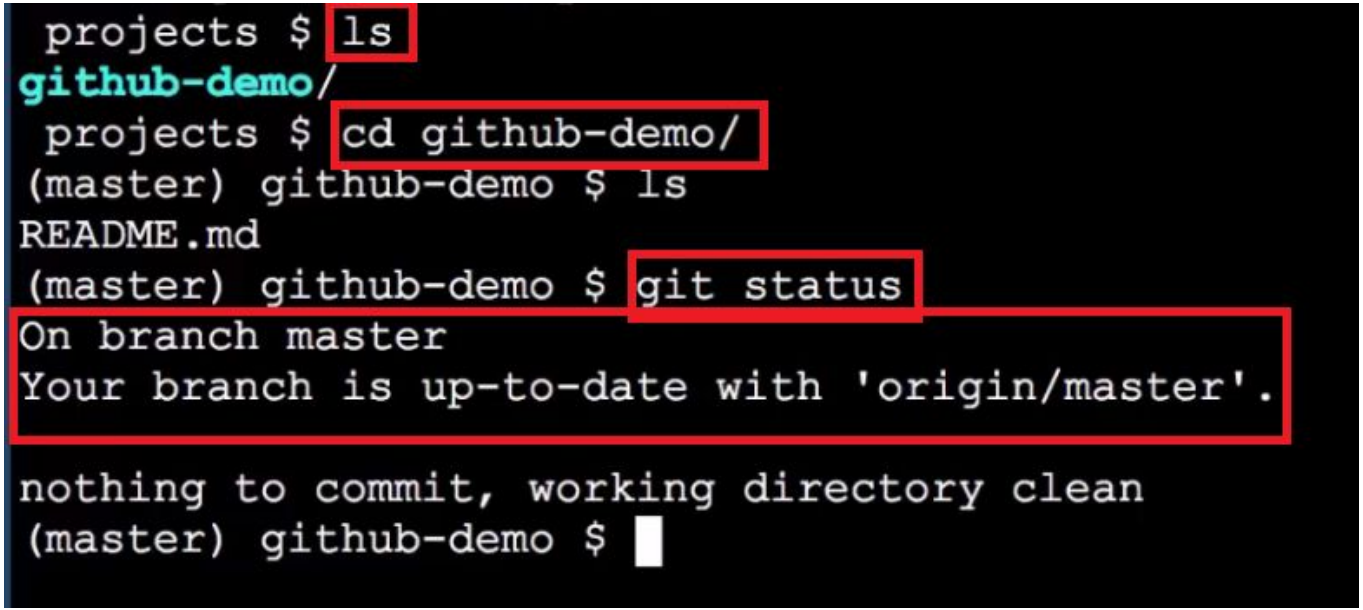
git clone URL

Note : here URL refers to Repository Clone Copy link from github

Example :

```
 projects $ git clone https://github.com/prezlincoln/github-demo.git
Cloning into 'github-demo'...
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
Checking connectivity... done.
 projects $
```

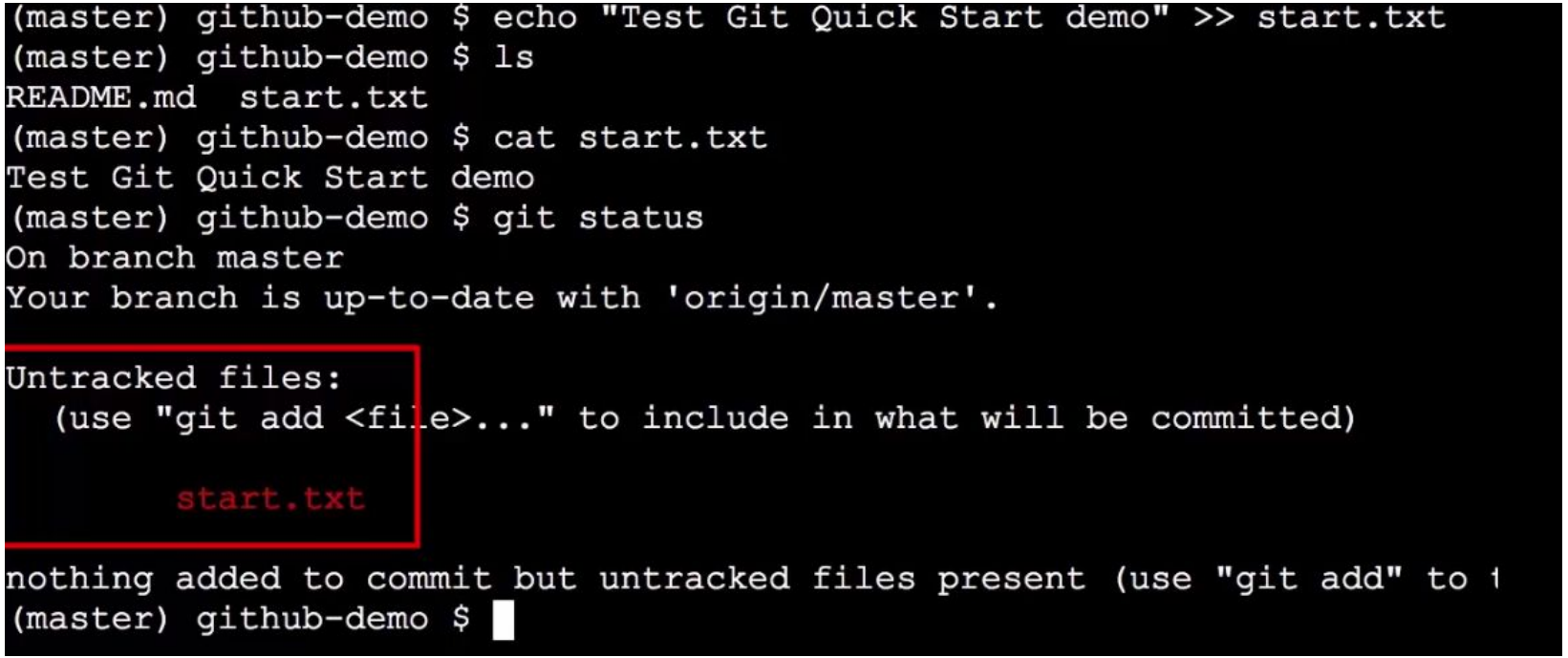
Step 4 : Verify the Cloned Repository on Local Machine



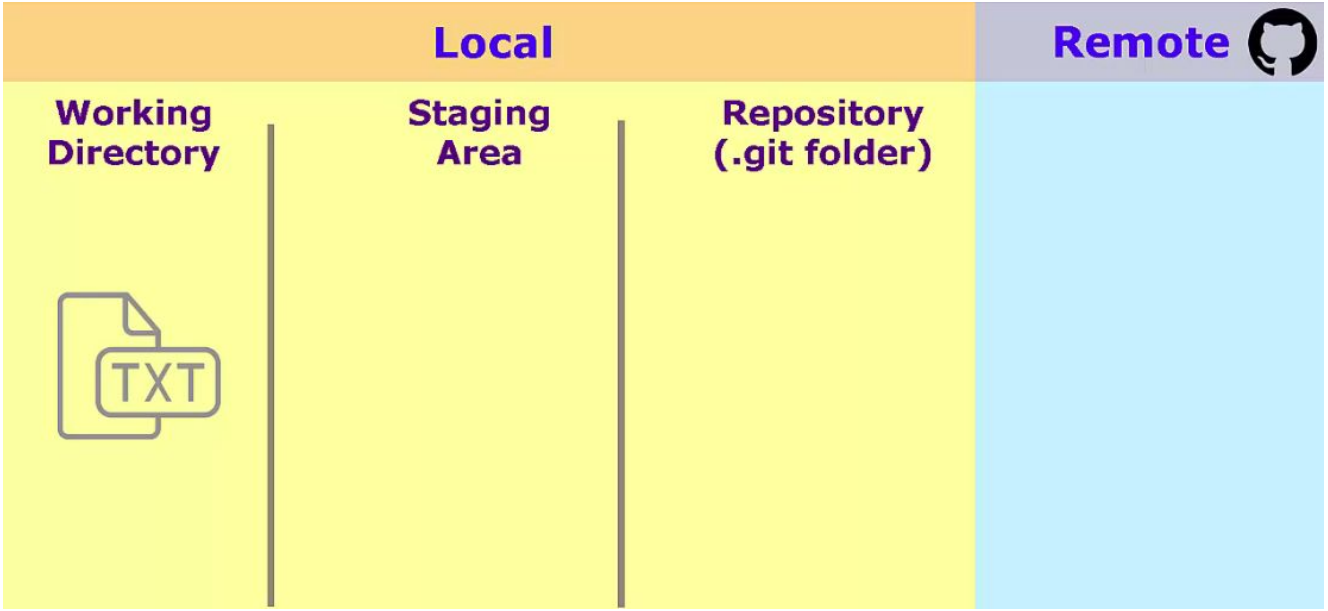
Note - Once the clone is completed successfully, the git clone command will establish a relation with remote repository on github with reference name, called as ORIGIN

Now start working on Local Machine -

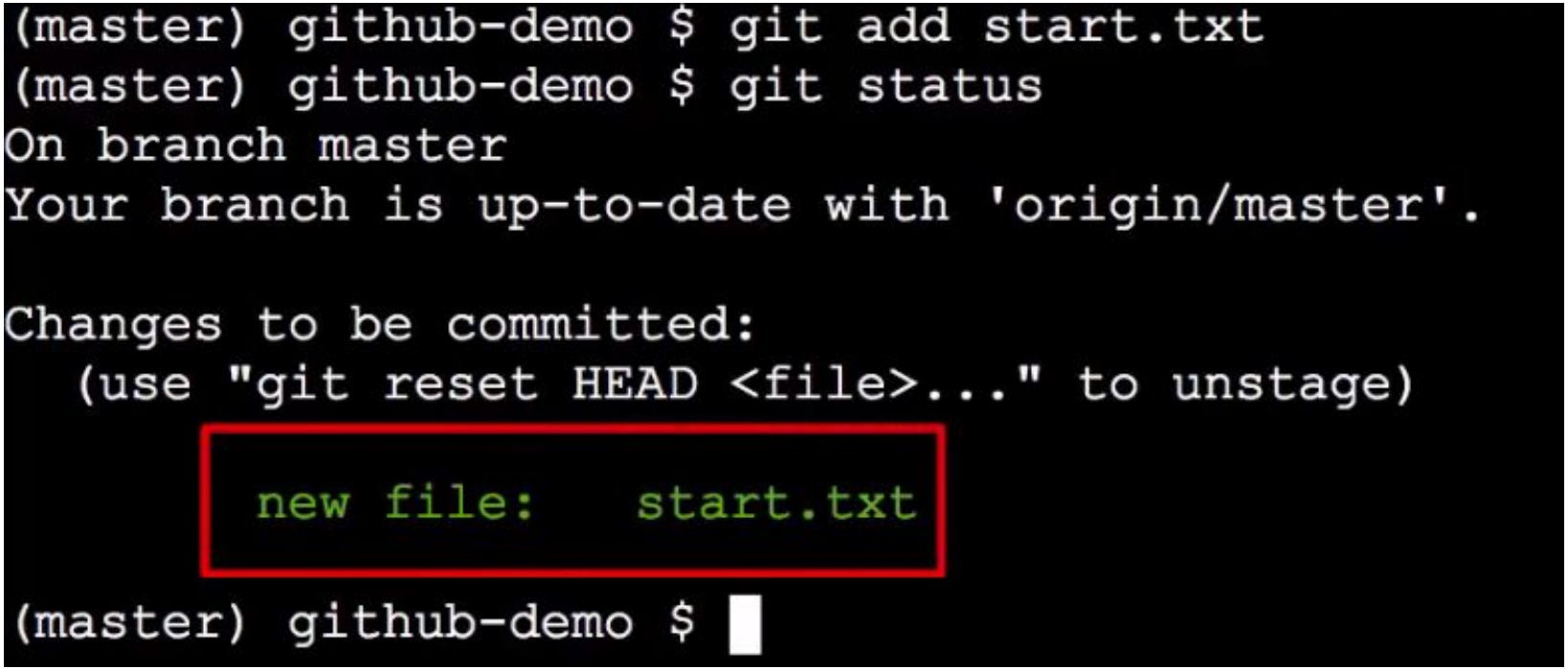
CASE STUDY :



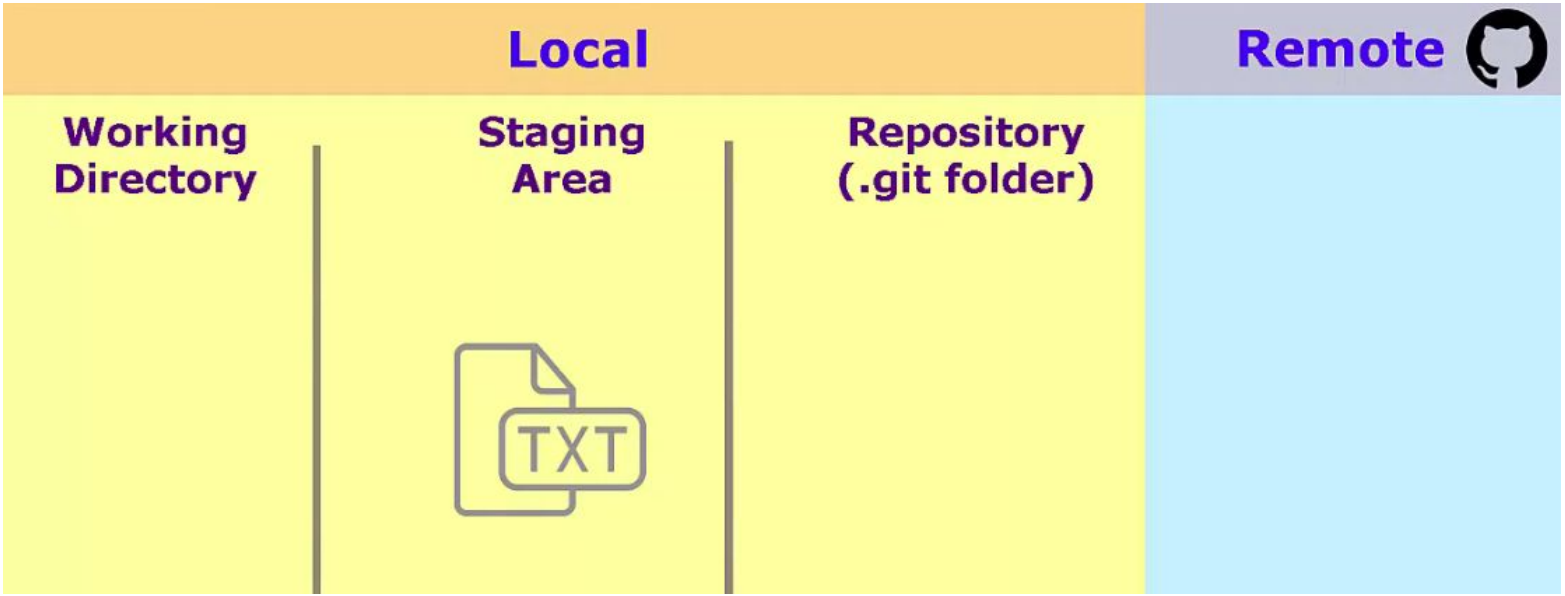
- Currently, file start.txt is untracked and it is working directory only



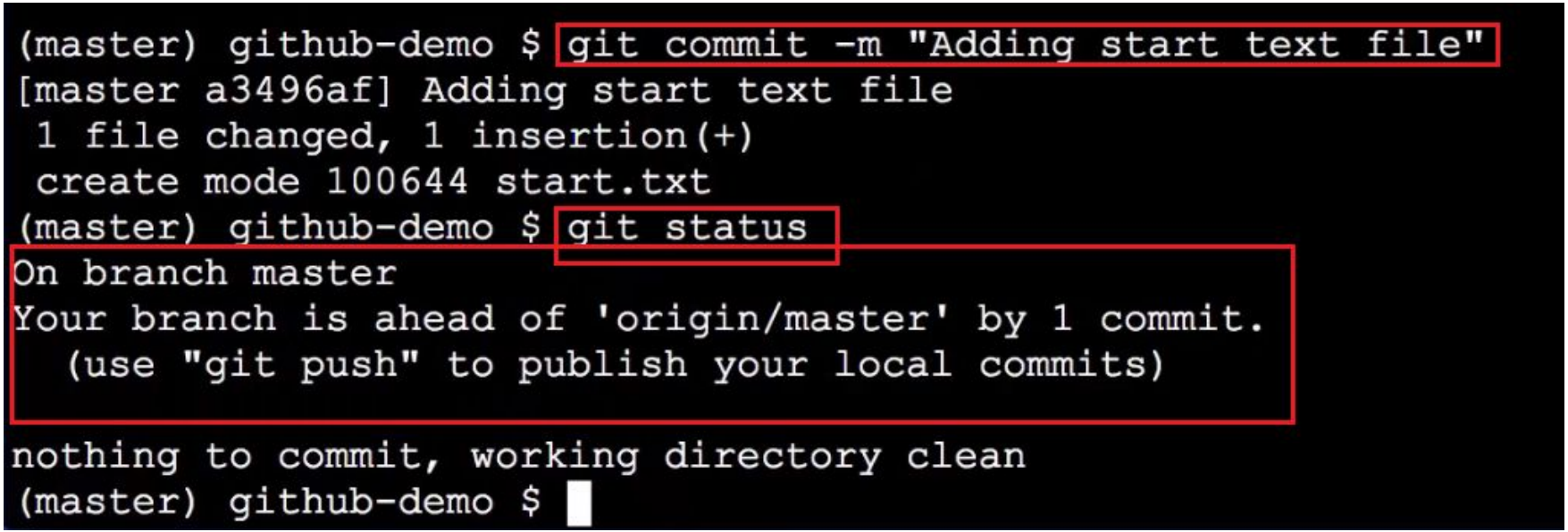
Now, let us add a file start.txt to staging area -



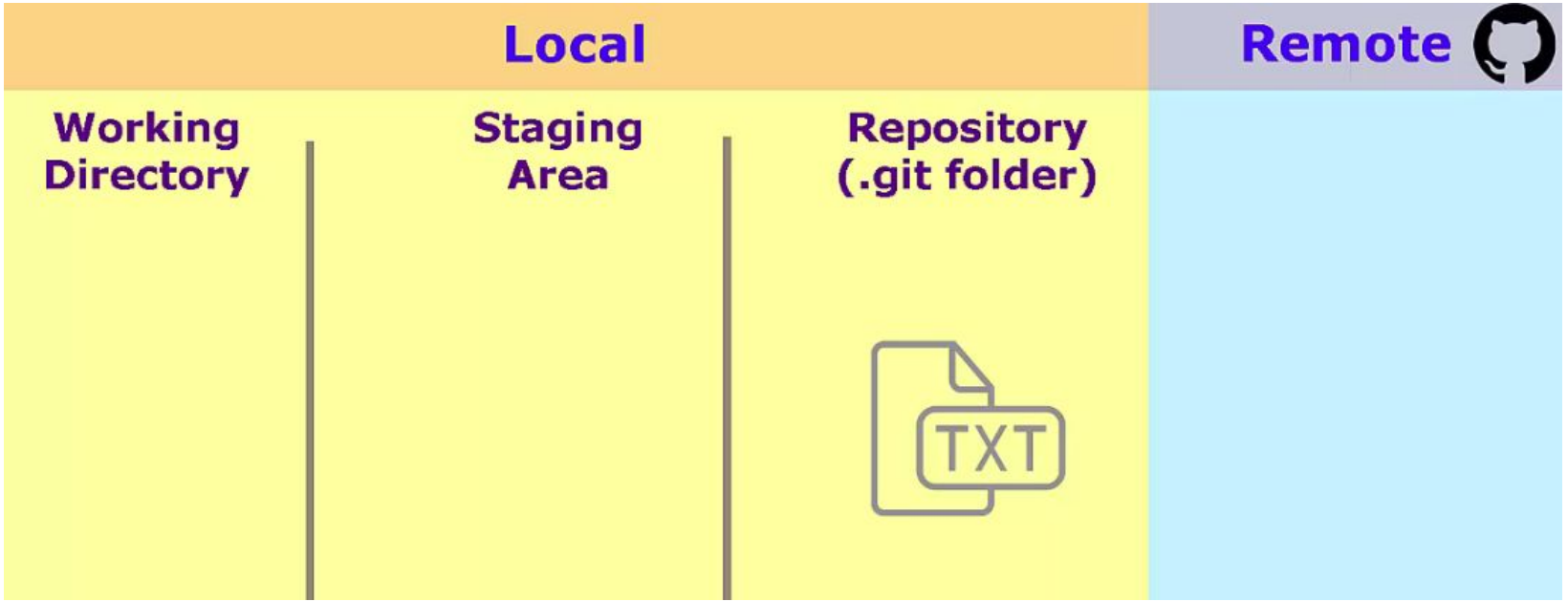
Now, the file start.txt is in staging area



Start.txt file is committed to Local Repository



Now, the start.txt file is in Local Repository -



So far, the file start.txt is on Local Machine, under git Local Repository only and not available in github Remote Repository.

- To verify it, open github repository and check if the file start.txt is listed under repository or not.

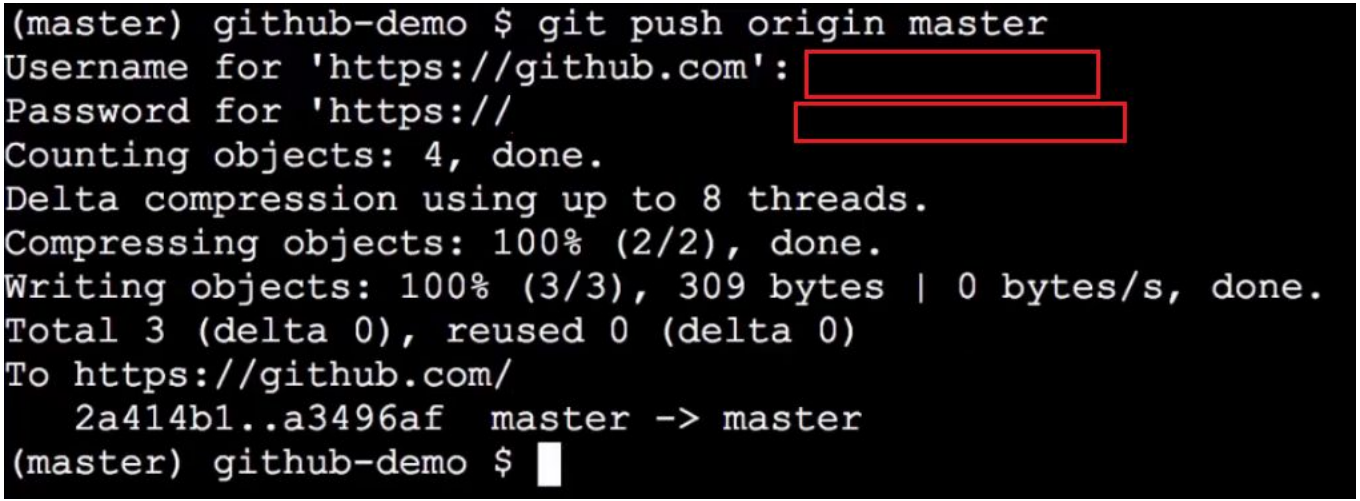
- Definitely, we will not find the file start.txt on Remote repository because we did not push the file to remote repository (github) yet.

- Let’s push the file start.txt to github remote repository now….

Execute below command to push to github Remote Repository -

 # git push origin master

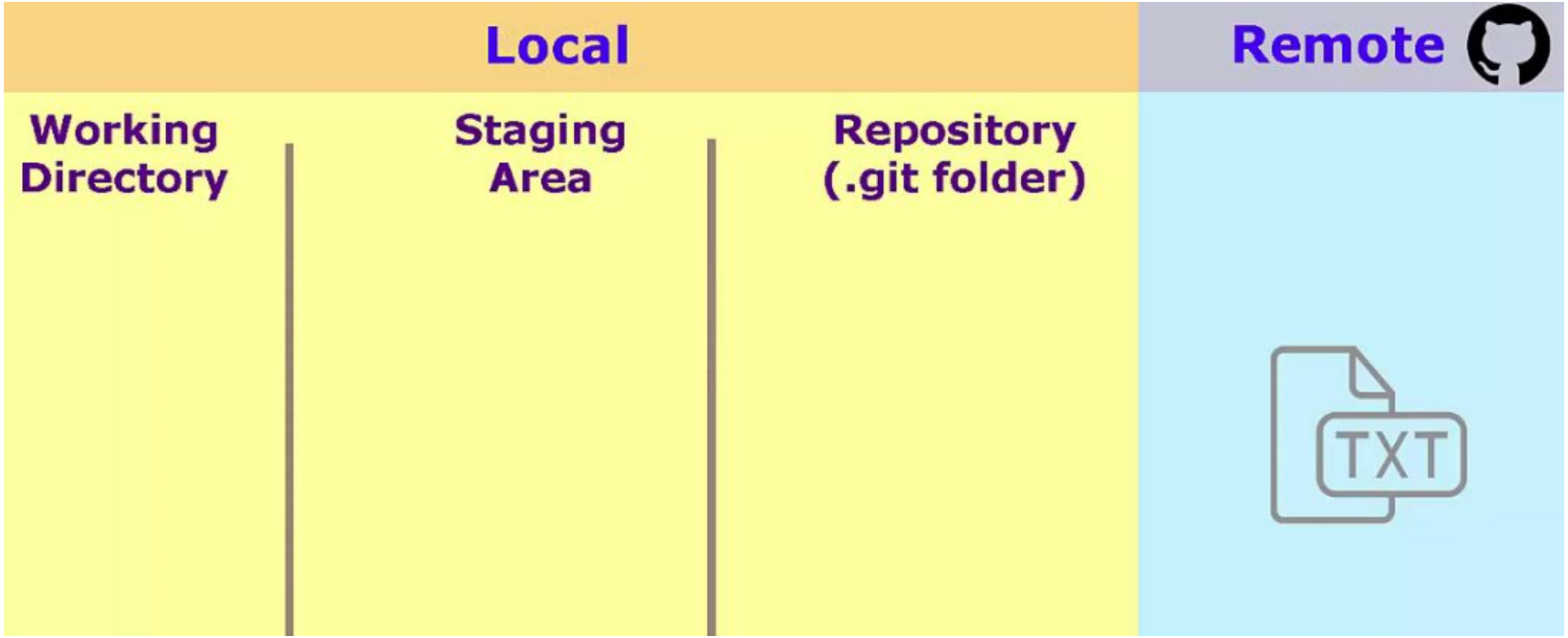
Git will prompt for username and password of github account.



- Understanding of origin in git push command

- Understanding of master in git push command

- FInally, file start.txt should be in github remote repository, verify it manually on github account.



EXPECTED INTERVIEW QUESTIONS -

Q. How to push the project files from git Local Repository to Remote Repository ?

Q. What are command line arguments for git push ?

Case Study :

A developer in my team when he/she pushes the changes to Remote Repository, committer information shows incorrectly, what could be the issue and how you will fix it?