INSIDE MASTER BRANCH AGAIN !!!!!!

Topics

0. Most frequently used commands

1. Setup commands

- Configure
 - Cloning
 - Creating New

2. Frequently used ones

- Get current remote repo (pull and branch)
- Update changes to local repo (add and commit)
- Sending changes to remote repo (merge and push)

3. Rest Misc Commands

MOST FREQUENTLY USED

- git remote add origin [github-url] • □ git remote add upstream [github-url-from-where-forked] • □git log --oneline • git rebase [other-branch] • See below to understand rebase command. git checkout [branch]^ • Go to just previous commit of the branch • □ git checkout [branch]^^ • Go to two previous commit of the branch • □ git checkout HEAD^ Go to previous commit of current commit • ☐ qit branch -f [from-branch] [to-commit-hash-or-branch] Assigns the [from-branch] to the [to-commit] • git reset [commit-hash-or-branch] • Stages the previous commit • git revert [commit-hash-or-branch] • Creates a new commit which will be same as the previous one.
 - With revert command, one can push the changes, but not with reset command.

Note use just few characters of hash to refer to hash.

Setup

Configure (git config)

- Username:
 - git config user.name "Homo Sepian"
- Email:
 - ☐ git config user.email "abcd@xyz.com"

This name and email is used to track who has committed which changes.

Use git config --global <rest code> to avoid configuring these for each repository

Cloning

• ☐ git clone <link to repository>

To change the name of directory-name of cloned repository, add directory-name at the end of command:

• □ git clone <link to remote repository> <directory name>

Creating

Go inside the project folder then:

- git init
- git remote add origin <link to remote repository>

Frequently Used Commands

Pushing to remote repository

• ☐ git push <link to remote repository>

To not remember the link to remote repository, we create a kind of variable to store the remote repository link using:

• ☐ git remote add <name of variable> <link to remote repository>

Generally <name of variable> is origin.

We can also specify the branch we want to push by adding the branch name at the end of these commands. Eg:

• □ git push origin master

Miscellaneous Commands

Create branch

• qit branch <branch name>

To override existing branch with current one, use:

• ☐ git branch -f <branch name>

Switch branch

• ☐ git checkout <branch name>

To create and checkout the branch, use

To not specify origin each time, we can use -u option after git push to make it default remote repository to push to. After doing that, from next time, command for pushing just remains:git push

• □ git checkout -b
branch name>

Go to just previous commit

• qit checkout -f

View commits

- git log
- □git log --oneline

To view commits with differences

• □git log -p

To view 5 commits, use

• □ git log -p -5

Delete a branch

• □ git branch -d <branch name>

View status

• git status

To view status in a compact form, use:

• □git status -s

View differences in different branches

• ☐ git diff <other branch name>

staged means changes that are added but not committed. To view difference between last commit and staged files, use:

• ☐ git diff --staged

Merging branches

• ☐ git merge <other branch>

Reset to previous commit:

```
•  git stash
```

• □git stash clear

Committing

```
• git commit
```

• ☐ git commit -m "message"

To give smaller feedback:

• ☐ git commit -am "message"

Rebase

```
• git rebase [other-branch]
```

- Synchronizes the current branch with [other-branch]
- Dangerous command, as deletes all commits that are not in [other-branch]
- □ git rebase -i [other-branch]
 - Allows you to select and specify order

Cherry-pick

- Somewhat like Rebase, but allows you to append just some specific commits.
 - ☐ git cherry-pick [commit1-hash] [commit2-hash] ...

GITIGNORE

```
".pyc
```

- To ignore files with come extension.
- dir/
 - To ignore directory dir even in any subdirectory.
- |dir/

 \circ \square To ignore only outer dir directory.