

Local initialization

05 May 2021 03:06

Starting Local Repo:

- `git init <repo-name>`
- `cd <repo-name>`
- `echo "# Readme file" >> README.md`
- `git commit -m "Git initiation"`

Downloading Repo:

- `git clone <URL>`

Linking Local git repo with web server repo:

- `git remote add <remote-nickname> https://github.com/username/repo-name`
- `git remote //` List the remote.
- `git remote rm <remote-nickname> //` Delete the connection from remote to local repo.

Syncing with remote:

- `git push <remote-nickname> <branch-name> //` Upload to server.
- `git pull <remote-nickname> <branch-name> //` Download from server.
- `git status //` To check the status of work flow.

Configuration

06 May 2021 09:06

- `git config --global user.name "<name>"`
- `git config --global user.email "<mail>"`
- `git config --global credential.helper cache`

Staging

05 May 2021 08:38

Staging:

- `git add .` // stages modified and new files only.
- `git add -u` // stages modified and deleted files only.
- `git add -A` // stages all files.
- `git add <file>` // Add specific file to staging area.
- `git checkout -- .` // Clears all un-staged changes.

Commits

05 May 2021 08:43

Commits:

- `git commit -m "commit message"`
- `git log` // List all the commits in present branch.
- `git checkout <commit-ID>` // To check the previously committed version.
- `git reset --hard <commit-ID>` // To get rid of all commits that are after this commit.
- `git commit --amend <commit-ID>` // To edit commit message.

Branching

05 May 2021 03:14

- `git checkout -b <new-branch-name>` // Create new branch.
- `git branch` // List all local branches.
- `git checkout <branch-name>` // To change branch.
- `git branch -d <branch-name>` // To delete branch (`-D` to force).
- `git branch -r` // List all remote branches.
- `git branch --all` // List all branches (Local + Remote).
- `git push origin --delete <branch>` // Deletes branch in remote.
- `git checkout -t remotes/origin/<other-branch>` // Download remote branch to local.
- `git push -u origin <new-branch-name>` // To create new branch on remote that has been created locally and set tracking.
- `git merge <branch-name>` // merges <branch-name> with current branch.

Syncing remote

05 May 2021 04:54

- `git branch -r` // To see the remote branches in local repo.
- `git fetch <remote-with-branch>` // Downloads from remote.
// Ex: `git fetch origin/main`
- `git merge <remote-with-branch>` // Merging local main with fetched remote origin/main.
// Ex: `git merge origin/main`
- `git pull <remote> <branch>` // combination of fetch and merge of a branch.
// Ex: `git pull origin main`

Stashing

05 May 2021 05:26

Doesn't commit but stores in stash

- `git stash` // stashes all the changes from present commit and goes to that commit.
- `git stash push -m "<message>"` // stash with message.
- `git stash list` // To list all stashed changes.
- `git stash apply <index>` // To add the indexed stash to current commit.
- `git stash pop <index>` // Adds the stash to commits and deletes that stash.
- `git stash clear` // To delete all stashes.
- `git stash drop <index>` // To delete particular index.

Difference

05 May 2021 06:54

- `git diff //` Shows the changes of working tree with staged tree.
- `git diff --staged //` Shows the changes of staged area with present commit.

Summary

05 May 2021 04:40



Helpful Git Commands

Initialization

Navigate to project folder

```
git init
```

```
git status
```

Commits

```
git add .
```

```
git commit -m "..."
```

```
git log
```

```
git checkout ...
```

```
git checkout -- .
```

```
git reset --hard ...
```

Branches

```
git branch
```

```
git checkout ...
```

```
git checkout -b ...
```

```
git merge ...
```

```
git branch -D ...
```