**Basic Commands of GitHub:**

* **git status** - displays what files have changed or been added or deleted.
* **git add** -**A** - adds all changes ("stages" the files). The A flag adds all changes.
* **git commit -m** "your message" - commits all changes and adds a message describing this change.
* **git push** - pushes your changes to the remote repository.
* **git fetch** - gets all the changes from the repository but doesn't change your local files.
* **git merge** - combines the changes that you just fetched to update your files.
* **git pull** - downloads all the changes and updates your local files.
* **rm -rf. git/** - to remove that directory from “version control”.
* **git init –** Initialize a local git repository.
* **git clone ssh://git@github.com/[username]/[repository-name].git –** Create a local copy of remote repository.

**Sharing & Updating Projects:**

| **Command** | **Description** |
| --- | --- |
| git push origin [branch name] | Push a branch to your remote repository |
| git push -u origin [branch name] | Push changes to remote repository (and remember the branch) |
| git push | Push changes to remote repository (remembered branch) |
| git push origin --delete [branch name] | Delete a remote branch |
| git pull | Update local repository to the newest commit |
| git pull origin [branch name] | Pull changes from remote repository |
| git remote add origin ssh://git@github.com/[username]/[repository-name].git | Add a remote repository |
| git remote set-url origin ssh://git@github.com/[username]/[repository-name].git | Set a repository's origin branch to SSH |

**Inspection & Comparison**

| **Command** | **Description** |
| --- | --- |
| git log | View changes |
| git log --summary | View changes (detailed) |
| git diff [source branch] [target branch} | Preview changes before merging. |

**Branching & Merging**

| **Command** | **Description** |
| --- | --- |
| git branch | List branches (the asterisk denotes the current branch) |
| git branch -a | List all branches (local and remote) |
| git branch [branch name] | Create a new branch |
| git branch -d [branch name] | Delete a branch |
| git push origin --delete [branchName] | Delete a remote branch |
| git checkout -b [branch name] | Create a new branch and switch to it |
| git checkout -b [branch name] origin/[branch name] | Clone a remote branch and switch to it |
| git checkout [branch name] | Switch to a branch |
| git checkout - | Switch to the branch last checked out |
| git checkout -- [file-name.txt] | Discard changes to a file |
| git merge [branch name] | Merge a branch into the active branch |
| git merge [source branch] [target branch] | Merge a branch into a target branch |
| git stash | Stash changes in a dirty working directory |
| git stash clear | Remove all stashed entries |