

GitHub Command Cheat Sheet

General Git Commands

Initialize a Git repository

`git init`

Initializes a new Git repository in the current directory.

Add remote repository

`git remote add origin <repository-url>`

Adds a remote repository to your local repo.

Check current branches

`git branch`

Lists all branches in the current repository.

Create and switch to a new branch

`git checkout -b <branch-name>`

Creates a new branch and switches to it.

Switch to an existing branch

`git checkout <branch-name>`

Switches to the specified branch.

Add files to the staging area

`git add .`

Adds all files in the current directory to the staging area.

Commit changes

```
git commit -m 'commit message'
```

Commits the staged changes with a message.

Push changes to a remote repository

```
git push -u origin <branch-name>
```

Pushes the local branch to the remote repository and sets the upstream branch.

Fetch remote branches and updates

```
git fetch origin
```

Fetches changes from the remote repository without merging.

Set upstream branch

```
git branch --set-upstream-to=origin/<branch-name> <branch-name>
```

Sets the upstream branch for the current branch.

Pull changes from remote repository

```
git pull origin <branch-name>
```

Fetches and merges changes from the remote branch.

Delete a branch locally

```
git branch -d <branch-name>
```

Deletes the specified branch locally.

Delete a branch remotely

```
git push origin --delete <branch-name>
```

Deletes the specified branch from the remote repository.

Scenario: GitHub Repo with No Project

Clone the empty repository

```
git clone https://github.com/AVINESHWAR-KRISHNA/ETL-Pipeline.git
```

```
cd ETL-Pipeline
```

Add project files and push to GitHub

```
git add .
```

```
git commit -m 'Add project files'
```

```
git push -u origin main
```

Scenario: GitHub Repo with Project

Navigate to your project directory

```
cd /path/to/your/project
```

Initialize Git repository and add remote

```
git init
```

```
git remote add origin https://github.com/AVINESHWAR-KRISHNA/ETL-Pipeline.git
```

Check out the main branch

```
git checkout -b main
```

Add files, commit, and push

```
git add .
```

```
git commit -m 'Initial commit with project files'
```

```
git fetch origin
```

```
git branch --set-upstream-to=origin/main main
```

```
git push -u origin main
```

Creating and Deleting Feature Branches

Create and switch to a feature branch

```
git checkout -b feature/<feature-name>
```

Commit changes to the feature branch

```
git add .
```

```
git commit -m 'Add feature implementation'
```

Push feature branch to remote

```
git push -u origin feature/<feature-name>
```

Create a pull request on GitHub and merge changes (manual step on GitHub UI)

Delete the feature branch locally

```
git checkout main
```

```
git branch -d feature/<feature-name>
```

Delete the feature branch remotely

```
git push origin --delete feature/<feature-name>
```

Fetch and pull latest changes from main branch

```
git fetch origin
```

```
git pull origin main
```