Git + GitHub Commands Guide

## Create a New GitHub Repo (Remote)

**Go to:** https://github.com/new

**Fill in:** Repository name, Description (optional), Choose Public or Private

**Click Create repository**

## Initialize Git Locally

cd path/to/your/project **# Move into your project folder**

git init **# Initialize Git in the folder**

## Add Remote GitHub Repository

git remote add origin https://github.com/your-username/my-project.git

## Stage and Commit Files

git add . **# Stage all files**

git commit -m 'Initial commit' **# Commit with message**

## Rename Branch to 'main'

git branch -M main **# Rename 'master' to 'main'**

## Push to GitHub

git push -u origin main **# Push your files to GitHub**

## Future Workflow: Make & Push Changes

git add .

git commit -m 'your message'

git push

## Helpful Git Commands

git init Start a git repo

git status Show current file states

git add . Stage all changes

git commit -m 'msg' Save a snapshot

git log Full commit history

git log --oneline Short commit history

git branch List branches

git branch -M main Rename to main

git checkout <branch> Switch branches (older)

git switch <branch> Switch branches (newer)

git switch -c <branch> Create + switch branch

git merge <branch> Merge another branch in

git remote -v Show remote URL(s)

git remote add origin <url> Link GitHub repo

git push -u origin main Push first time

git push Push later changes

git pull Get latest from GitHub

git pull origin main --allow-unrelated-histories Merge remote even if unrelated

git push -f origin main Force push (CAUTION!)

git clone <url> Download entire repo

git diff Show what's changed

git stash Save changes temporarily

git stash pop Reapply stashed work

git reset --hard Remove all uncommitted work

git clean -fd Remove untracked files/folders

git config --global user.name Set your Git username

git config --global user.email Set your Git email

git reflog Track branch changes

git show <commit> View a commit's details

git rm <file> Remove file and stage