

Basic Git Commands

Initialize a Repository: **git init**

Clone a Repository: **git clone <repository-url>**

Check Status: **git status**

Stage Changes: **git add <file>**

Or stage all changes: **git add .**

Commit Changes: **git commit -m "Your commit message here"**

View Commit History: **git log**

Remote Repositories

Add a Remote Repository: **git remote add origin <repository-url>**

Push Changes to Remote: **git push origin <branch-name>**

Pull Changes from Remote: **git pull origin <branch-name>**

Branching and Merging

Create a New Branch: **git checkout -b <branch-name>**

Switch to a Branch: **git checkout <branch-name>**

Merge Branches: **git merge <branch-name>**

Using SSH with GitHub

Generate SSH Key: **ssh-keygen**

Add SSH Key to GitHub: **Copy the key: cat ~/.ssh/id_ed25519.pub | pbcopy**

Go to GitHub SSH Keys and add a new SSH key.

Change Remote URL to SSH: **git remote set-url origin**

git@github.com:your_username/your_repository.git

Verify the SSH Connection: **ssh -T git@github.com**

Configuration and Settings

Set Global Username and Email:

git config --global user.name "Your Name"

git config --global user.email "your_email@example.com"

Set Default Branch Name: **git config --global init.defaultBranch main**