

GitHub Commands Cheat Sheet

Repository Setup

```
git config --global user.name "Your Name"  
-> Set your Git username  
  
git config --global user.email "you@example.com"  
-> Set your Git email  
  
git init  
-> Initialize a new Git repository  
  
git clone <repo_url>  
-> Clone an existing repository
```

Basic Workflow

```
git status  
-> Check the status of your files  
  
git add .  
-> Stage all changes for commit  
  
git commit -m "message"  
-> Commit staged changes with a message  
  
git push origin main  
-> Push changes to the main branch  
  
git pull origin main  
-> Pull latest changes from the main branch
```

Collaboration

```
git fork  
-> Create a personal copy of a repository (via GitHub UI)  
  
git remote add upstream <repo_url>  
-> Add original repo as upstream  
  
git fetch upstream  
-> Fetch changes from upstream  
  
git merge upstream/main  
-> Merge upstream changes into local main
```

```
git push origin main
```

-> Push merged changes to your fork

Branching

```
git branch
```

-> List all branches

```
git branch <branch_name>
```

-> Create a new branch

```
git checkout <branch_name>
```

-> Switch to a branch

```
git checkout -b <branch_name>
```

-> Create and switch to a new branch

```
git merge <branch_name>
```

-> Merge a branch into current branch

```
git branch -d <branch_name>
```

-> Delete a branch