

Git Cheatsheet

Setup and Config

- **Configure User Information:**

```
git config --global user.name "Your Name"  
git config --global user.email "your.email@example.com"
```

- **Check Configuration:**

```
git config --list
```

Create Repositories

- **Initialize a New Repository:**

```
git init
```

- **Clone an Existing Repository:**

```
git clone https://github.com/username/repo.git
```

Make Changes

- **View Changes:**

```
git status
```

- **Track New Files:**

```
git add filename
```

- **Stage All Changes:**

```
git add .
```

- **Commit Changes:**

```
git commit -m "Commit message"
```

Branching and Merging

- **List All Branches:**

```
git branch
```

- **Create a New Branch:**

```
git checkout -b new-branch
```

- **Switch Between Branches:**

```
git checkout branch-name
```

- **Merge a Branch:**

```
git merge branch-name
```

- **Delete a Branch:**

```
git branch -d branch-name
```

Share and Update

- **Push Changes:**

```
git push origin branch-name
```

- **Pull Latest Changes from Remote Repository:**

```
git pull
```

Inspection and Comparison

- **View Commit History:**

```
git log
```

- **View Specific Commit:**

```
git show commit-id
```

- **Compare Branches:**

```
git diff branch-one branch-two
```

Undo Changes

- **Undo Last Commit (Keep Changes Staged):**

```
git reset --soft HEAD~1
```

- **Undo Last Commit and All Changes:**

```
git reset --hard HEAD~1
```

- **Revert a Commit:**

```
git revert commit-id
```

Stashing

- **Stash Changes:**

```
git stash
```

- **List Stashes:**

```
git stash list
```

- **Apply Last Stashed State:**

```
git stash apply
```

- **Clear All Stashed States:**

```
git stash clear
```