

Advanced Git Command Cheat Sheet

1. Basics

Initialize repo:

```
git init
```

Clone a repo:

```
git clone <url>
```

Check status:

```
git status
```

Add and commit:

```
git add .  
git commit -m "Message"
```

Push to remote:

```
git push origin main
```

2. Branching & Merging

Create branch:

```
git branch new-feature
```

Switch branch:

```
git checkout new-feature  
git switch new-feature
```

Create + switch:

```
git checkout -b new-feature
```

Merge to main:

```
git checkout main  
git merge new-feature
```

Delete branch:

```
git branch -d new-feature
```

3. Stashing & Resetting

Stash changes:

```
git stash
```

Apply last stash:

```
git stash apply
```

Drop stash:

```
git stash drop
```

Soft reset (keep files):

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

Hard reset (erase files):

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

4. Logs & Diffs

View commit history:

```
git log --oneline --graph --all
```

Show file diff:

```
git diff <file>
```

Diff between branches:

```
git diff main..feature-branch
```

5. Rebase & Cherry-pick

Rebase feature branch:

```
git checkout feature
```

```
git rebase main
```

Abort rebase:

```
git rebase --abort
```

Cherry-pick commit:

```
git cherry-pick <commit-hash>
```

6. Remote Management

List remotes:

```
git remote -v
```

Add remote:

```
git remote add origin <url>
```

Rename remote:

```
git remote rename origin upstream
```

Remove remote:

```
git remote remove origin
```

7. Tags & Releases

Create tag:

```
git tag v1.0
```

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Push tag:

```
git push origin v1.0
```

Delete tag:

```
git tag -d v1.0  
git push origin :refs/tags/v1.0
```

8. Undoing Changes

Undo last commit (keep files):

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

Unstage file:

```
git reset <file>
```

Discard local changes:

```
git checkout -- <file>
```

9. Git Configuration

Set global user:

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

Set default branch:

```
git config --global init.defaultBranch main
```

10. Useful Tricks

Show current branch:

```
git branch --show-current
```

Alias example:

```
git config --global alias.co checkout
```

Squash commits:

```
git rebase -i HEAD~n
```

Clean untracked files:

```
git clean -fd
```

Show ignored files:

```
git status --ignored
```