

Setup & Configuration

```
git config --global user.name "Your Name"
git config --global user.email "you@example.com"
git config --global core.editor "vim"
git config --global color.ui auto
git config --global alias.st status
git config --list
git config --get user.email
```

Initializing & Cloning Repos

```
git init
git init <directory>
git clone <url>
git clone --branch <branch> <url>
```

Stage & Commit Workflow

```
git status
git add <file>
git add . or git add --all
git commit -m "message"
git commit -a
git commit --amend
```

Viewing History & Differences

```
git log
git log --oneline --graph --all
git log --follow <file>
git log --author= "Name"
git log --since="2 weeks ago"
git diff
git diff --staged or --cached
git diff HEAD
git diff <commit1> <commit2>
git show <commit>
git blame <file>
```



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Branching & Merging

```
git branch
git branch -a
git branch -vv
git branch <na me>
git branch -d <na me>
git branch -r
git checkout <br anc h>
git checkout -b <ne w>
git checkout -- <fi le>
git merge <br anc h>
git rebase <br anc h>
git rebase -i HEAD~3
```

Remotes & Collaboration

```
git remote -v
git remote add origin <ur l>
git remote rename old new
git remote remove <na me>
git fetch
git fetch --prune
git pull
git pull --rebase
git push origin <br anc h>
git push --all
git push --tags
```

Stashing Changes

```
git stash
git stash list
git stash apply
git stash pop
git stash drop
git stash clear
```



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Undo, Reset & Restore

```
git checkout -- <file>
git restore <file>
git restore --staged <file>
git reset <file>
git reset --soft <commit>
git reset --mixed <commit>
git reset --hard <commit>
git revert <commit>
```

Tags & Releases

```
git tag
git tag <name>
git tag -a <name> -m "message"
git push origin <tag>
git push origin --tags
```

Cleaning & Maintenance

```
git clean -n
git clean -f
git clean -fd
git gc
git prune
git fsck
```



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