

Ultimate Git Commands Reference

Configuration & Setup

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

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

Sets your user info globally for commits.

Repository Initialization & Cloning

`git init`

Initializes a new Git repository.

`git clone <url>`

Clones a remote repository.

Basic Snapshotting

`git add <file> / git add .`

Stages file(s) for the next commit.

`git commit -m "message"`

Commits staged changes.

`git status`

Shows the status of working directory.

`git diff`

Shows differences between working and staged files.

Branching & Merging

`git branch`

Lists branches.

`git branch <name>`

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Creates new branch.

git checkout <name>

Switches to branch.

git merge <name>

Merges branch into current.

Remote Repositories

git remote add origin <url>

Adds remote repo.

git fetch origin

Downloads from remote without merging.

git pull origin <branch>

Fetches + merges.

git push origin <branch>

Pushes commits.

Undoing Changes

git reset --hard HEAD~1

Resets last commit.

git revert HEAD

Reverts last commit.

Tagging

git tag v1.0

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Lightweight tag.

```
git tag -a v1.0 -m "Release"
```

Annotated tag.

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

Pushes a tag.

Viewing History

```
git log
```

Shows commit history.

```
git show HEAD
```

Shows latest commit details.

Stashing

```
git stash
```

Saves work.

```
git stash apply
```

Reapplies last stash.

Advanced Git

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

Applies a specific commit.

```
git rebase <branch>
```

Reapplies commits onto a new base.