

# Git Cheat Sheet



## Launch Your Own Website With Unlimited Hosting

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### Create a Repository

```
$ git init [project name]
```

From scratch -- Create a new local repository

```
$ git clone my_url
```

Download from an existing repository

### Observe your Repository

```
$ git status
```

List new or modified files not yet committed

```
$ git diff --cached
```

Show the changes to staged files

```
$ git diff commit1 commit2
```

Show the changes between two commit ids

```
$ git show [commit]:[file]
```

Show the file changes for a commit id and/or file

```
$ git log -p [file/directory]
```

Show change history for file/directory including diffs

```
$ git diff
```

Show the changes to files not yet staged

```
$ git diff HEAD
```

Show all staged and unstaged file changes

```
$ git blame [file]
```

List the change dates and authors for a file

```
$ git log
```

Show full change history

## Working with Branches

```
$ git branch
```

List all local branches

```
$ git checkout my_branch
```

Switch to a branch, my\_branch, and update working directory

```
$ git branch -d my_branch
```

Delete the branch called my\_branch

```
$ git tag my_tag
```

Tag the current commit

```
$ git branch -av
```

List all branches, local and remote

```
$ git checkout branch_b
```

```
$ git merge branch_a
```

Merge branch\_a into branch\_b

```
$ git branch new_branch
```

Create a new branch called new\_branch

## Make a change

```
$ git add [file]
```

Stages the file, ready for commit

```
$ git commit -m "commit message"
```

Commit all staged files to versioned history

```
$ git reset [file]
```

Unstages file, keeping the file changes

```
$ git add .
```

Stage all changed files, ready for commit

```
$ git commit -am "commit message"
```

Commit all your tracked files to versioned history

```
$ git reset --hard
```

Revert everything to the last commit

## Synchronize

```
$ git fetch
```

Get the latest changes from origin (no merge)

```
$ git pull --rebase
```

Fetch the latest changes from origin and rebase

```
$ git pull
```

Fetch the latest changes from origin and merge

```
$ git push
```

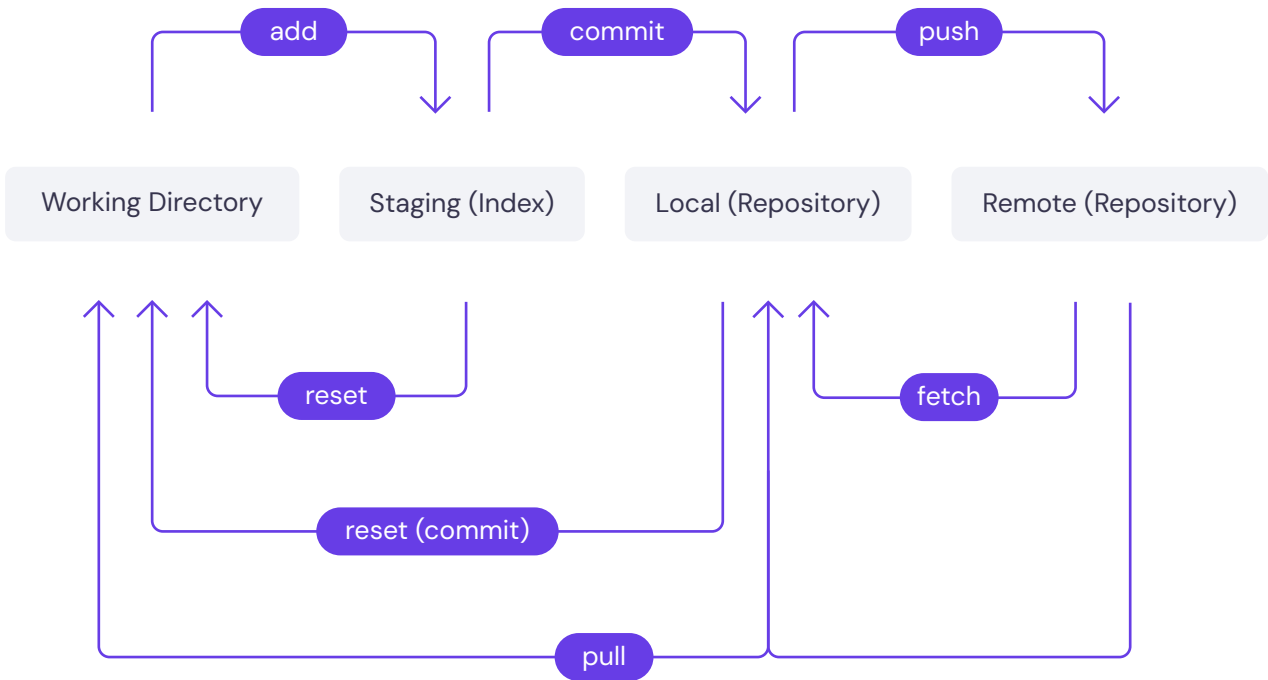
Push local changes to the origin

## Finally!

```
$ git command --help
```

When in doubt, use git help

Or visit <https://training.github.com/> for official GitHub training.



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A promotional banner for Hostinger featuring a man in a suit using a laptop. The background is purple with a white percentage sign icon and navigation arrows.