

Git Cheatsheet Essential Commands

Setup & Configuration

- `git config --global user.name "Your Name"`: Set your username
- `git config --global user.email "your.email@example.com"`: Set your email
- `git config --global core.editor nano`: Set default editor (can be vim, code, etc.)
- `git config --list`: List all configuration settings

Repository Initialization

- `git init`: Initialize a new Git repository
- `git clone <repo_url>`: Clone an existing repository

Staging & Committing

- `git status`: Show current changes
- `git add <file>`: Stage a file
- `git add .`: Stage all changes
- `git commit -m "commit message"`: Commit staged changes
- `git commit -am "commit message"`: Add and commit in one step

Branching & Merging

- `git branch`: List branches
- `git branch <name>`: Create a new branch
- `git checkout <branch>`: Switch branches
- `git checkout -b <branch>`: Create and switch to a new branch `git

merge <branch>`: Merge a branch into the current one

- `git branch -d <branch>`: Delete a branch

Pushing & Pulling

- `git push`: Push changes to remote
- `git push origin <branch>`: Push specific branch
- `git pull`: Pull latest changes from remote
- `git fetch`: Download objects and refs from another repository

History & Logs

- `git log`: View commit history
- `git log --oneline`: Compact commit history
- `git diff`: Show file differences
- `git show <commit>`: Show a specific commit

Undoing Changes

- `git checkout -- <file>`: Discard changes in file
- `git reset HEAD <file>`: Unstage file
- 'git revert <commit>': Revert a specific commit
- `git reset --hard`: Reset working directory and staging

Remote Repositories

- `git remote -v`: Show remotes
- `git remote add origin <url>`: Add a remote repository
- `git remote remove origin`: Remove a remote

Tags

- `git tag`: List tags
- `git tag <name>`: Create a tag
- `git push origin <tag>`: Push a tag

Stashing

- `git stash`: Stash changes
- `git stash pop`: Apply and remove last stash
- `git stash list`: List stashes

Miscellaneous

- `git blame <file>`: Show who changed what and when
- `git clean -fd`: Remove untracked files and directories
- `git cherry-pick <commit>`: Apply a commit from another branch

