GIT COMMANDS

1. Configuration & Setup

Command	Description
`git config --global user.name "Your Name"`	Set your name for commits
`git config --global user.email "you@example.com"`	Set your email for commits
`git config --list`	View current configuration settings
`git config --global alias.co checkout`	Create a shortcut (alias) for commands
`git init`	Initialize a new Git repository
`git clone <repo-url>`	Clone an existing repository

2. Working with Files

Command	Description
`git status`	Show the current status of the working directory
`git add <file>`	Stage changes for commit
`git add .`	Stage all changes in the working directory
`git reset <file>`	Unstage a file before commit
`git reset --hard`	Reset everything to last committed state
`git commit -m "message"`	Commit staged changes with a message
`git commit --amend -m "new message"`	Modify the last commit message

3. Branching & Merging

Command	Description
`git branch`	List all branches

`git branch <branch-name>`	Create a new branch
`git checkout <branch-name>`	Switch to a different branch
`git checkout -b <branch-name>`	Create and switch to a new branch
`git merge <branch-name>`	Merge another branch into the current branch
`git branch -d <branch-name>`	Delete a local branch
`git push origin --delete <branch-name>`	Delete a remote branch

4. Remote Repositories

Command	Description
`git remote -v`	List remote repositories
`git remote add origin <repo-url>`	Link local repo to a remote repo
`git push origin <branch-name>`	Push changes to the remote repository
`git push --force`	Force push changes (overwrites remote history)
`git pull origin <branch-name>`	Fetch and merge changes from remote repo
`git fetch origin`	Fetch remote changes without merging

5. Viewing History

Command	Description
`git log`	View commit history
`git log --oneline --graph --all`	View commit history as a graph
`git log --author="name"`	View commits by a specific author
`git log --grep="keyword"`	Search commit messages
`git diff`	View unstaged changes
`git diff --staged`	View staged changes
`git show <commit-hash>`	View details of a specific commit

6. Undoing Changes

Command	Description
`git checkout -- <file>`	Discard changes in a file
`git reset HEAD <file>`	Unstage a file
`git revert <commit-hash>`	Undo a commit by creating a new commit
`git reset --hard HEAD~1`	Delete the last commit
`git reflog`	View recent changes to HEAD and recover lost commits

7. Stashing Changes

Command	Description
`git stash`	Save uncommitted changes temporarily
`git stash list`	View saved stashes
`git stash apply`	Apply the latest stash
`git stash pop`	Apply and delete the latest stash
`git stash drop`	Delete a specific stash

Bonus: Useful One-Liners

Command	Description
`git shortlog -s -n`	Show commit count by author
`git grep "function_name"`	Search for text in files
`git blame <file>`	Show who modified each line in a file
`git diff --name-only HEAD~1`	Show files changed in the last commit

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- If your repo is **not code-related**, use **Creative Commons**.