GIT COMMANDS

1. Configuration & Setup

Command	Description
git configglobal user.name "Your Name"	Set your name for commits
git configglobal user.email "you@example.com"	Set your email for commits
git configlist	View current configuration settings
git configglobal alias.co checkout	Create a shortcut (alias) for commands
git init	Initialize a new Git repository
git clone <repo-url></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></file>	Stage changes for commit
git add.	Stage all changes in the working directory
git reset <file></file>	Unstage a file before commit
git resethard	Reset everything to last committed state
git commit -m "message"	Commit staged changes with a message
git commitamend -m "new message"	Modify the last commit message

3. Branching & Merging

Command	Description
git branch	List all branches

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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></branch-name>	Delete a local branch
git push origindelete <branch-name></branch-name>	Delete a remote branch

4. Remote Repositories

Command	Description
git remote -v	List remote repositories
git remote add origin <repo-url></repo-url>	Link local repo to a remote repo
git push origin branch-name>	Push changes to the remote repository
git pushforce	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 logonelinegraphall	View commit history as a graph
git logauthor="name"	View commits by a specific author
git loggrep="keyword"	Search commit messages
git diff	View unstaged changes
git diffstaged	View staged changes
git show <commit-hash></commit-hash>	View details of a specific commit

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6. Undoing Changes

Command	Description
git checkout <file></file>	Discard changes in a file
git reset HEAD <file></file>	Unstage a file
git revert < commit-hash>	Undo a commit by creating a new commit
git resethard 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></file>	Show who modified each line in a file
git diffname-only HEAD~1	Show files changed in the last commit

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- If you want patent protection, use Apache 2.0.

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