

Git and Shell Commands Cheat Sheet (Updated)

Command	Description
git config --global user.name "Your Name"	Set your Git username
git config --global user.email "you@example.com"	Set your Git email
git config --list	List all Git configurations
git init	Initialize a new Git repository
git clone <url>	Clone a remote repository
git status	Check status of the working directory
git add <file>	Add a file to the staging area
git add .	Add all files to the staging area
git commit -m "message"	Commit changes with a message
git commit -am "message"	Add and commit tracked files in one command
git log	Show commit history
git log --oneline	Show condensed commit history
git diff	Show changes not yet staged
git diff --staged	Show staged changes
git branch	List all branches
git branch <branch-name>	Create a new branch
git checkout <branch-name>	Switch to another branch
git switch <branch-name>	Switch branches (modern syntax)
git checkout -b <branch-name>	Create and switch to a new branch
git switch -c <branch-name>	Create and switch to a new branch
git merge <branch-name>	Merge a branch into the current one
git branch -d <branch-name>	Delete a branch
git remote -v	View configured remotes
git remote add origin <url>	Add a remote repository
git push -u origin main	Push to remote repository (set upstream)
git push	Push changes to remote
git pull	Pull updates from remote
git fetch	Fetch from remote (without merge)
git restore <file>	Restore changes in working directory
git restore --staged <file>	Unstage a file
git reset --hard	Reset working directory and staging area
git tag	List all tags
git tag <tag-name>	Create a new tag
git tag -a <tag-name> -m "message"	Create an annotated tag

Command	Description
git push origin <tag-name>	Push a tag to the remote
git push origin --tags	Push all tags to the remote
git stash	Stash current changes
git stash apply	Apply last stashed changes
git stash pop	Apply and remove the stash
git stash list	List all stashes
git stash drop	Remove a specific stash
git blame <file>	Show who modified each line of a file
git reflog	Show history of HEAD changes
git cherry-pick <commit>	Apply a specific commit
git rebase <branch>	Move or combine a sequence of commits
git clean -fd	Remove untracked files and directories

Common Shell (Terminal) Commands

Command	Description
ls	List files in the current directory
ls -a	List all files including hidden ones
ls -l	List files in long format with permissions
pwd	Print working directory (current location)
cd <dir>	Change directory
cd ..	Go up one directory level
cd ~	Go to the home directory
mkdir <dir>	Create a new directory
rm <file>	Remove a file
rm -r <dir>	Remove a directory and its contents
touch <file>	Create a new empty file
clear	Clear the terminal screen
echo <text>	Display a line of text
cat <file>	Display the contents of a file
nano <file>	Open a file in the Nano editor
vim <file>	Open a file in the Vim editor
code .	Open the current directory in VS Code
exit	Close the terminal session