Git Command Cheatsheet

Git Basics

Command	Description
git init	Initialize a new local Git repository
git clone <repo_url>	Copy a remote repository to your computer
git status	Check current status
git add .	Stage all changes
git add <file>	Stage specific file
git commit -m 'msg'	Commit staged changes
git log	View commit history
git diff	Show unstaged changes
git diff --staged	Show staged changes

Branching

Command	Description
git branch	List branches
git branch <name>	Create branch
git checkout <name>	Switch branch
git switch <name>	Switch branch (new syntax)
git merge <name>	Merge branch into current
git branch -d <name>	Delete branch

Remote Repositories

Command	Description
git remote add origin <url>	Link repo to GitHub
git remote -v	Show linked remotes
git push -u origin main	Push commits to GitHub (first time)
git push	Push updates
git pull	Fetch and merge updates
git fetch	Fetch without merging

Undoing & Fixing

Command	Description

git restore <file>	Undo changes since last commit
git restore --staged <file>	Unstage file
git reset --hard	Reset all changes (■ irreversible)
git reset --hard <commit>	Reset to specific commit
git revert <commit>	Undo commit safely

Shortcuts

Command	Description
git config --global user.name 'Kelvin'	Set username
git config --global user.email 'you@example.com'	Set email
git log --oneline	Compact history
git show <commit>	Show commit details
git stash	Temporarily save uncommitted changes
git stash pop	Reapply stashed changes

GitHub Authentication

Command	Description
1. Generate Token	https://github.com/settings/tokens
2. Use in terminal	Username: <your GitHub username>
	Password: <paste token here>