Git Command Cheat Sheet

Quick branch check: git status | git branch (*) | git rev-parse --abbrev-ref HEAD

Command	Purpose	Notes / Example Output
git configglobal user.name "Nam	Used for commit author info	
git configglobal user.email "Emai	l"Set global email	Should match GitHub account
git configglobal init.defaultBranch	Chaimge default branch to main	Set once
git init	Initialize local repository	Creates .git folder
git clone <url></url>	Clone from remote repository	Default folder = repo name
git status	Check status and branch	On branch main
git add <file></file>	Stage changes	git add . = stage all
git commit -m "message"	Commit staged changes	Use meaningful messages
git logonelinegraph	Show concise commit history	Includes branch graph
git branch	List local branches	* marks current branch
git switch <branch></branch>	Switch branches (new syntax)	Same as checkout
git switch -c <branch></branch>	Create and switch to new branch	Same as checkout -b
git remote -v	List remote repositories	Shows fetch/push URLs
git remote add origin <url></url>	Add remote	Common name is origin
git remote set-url origin <url></url>	Change remote URL	Switch HTTPS/SSH
git fetch	Fetch remote updates (no merge)	Updates origin/* refs
git pull	Fetch and merge updates	Equivalent to fetch + merge
git pullrebase origin <branch></branch>	Fetch and reapply commits	Avoids extra merge commits
git push -u origin <branch></branch>	Push and set tracking	Needed for first push
git push	Push to tracked remote branch	Requires tracking branch
git restore <file></file>	Discard local changes	Only for tracked files
git restorestaged <file></file>	Unstage file	Keep working directory changes
git resethard HEAD~1	Reset to previous commit	Dangerous: loses changes
git revert <commit></commit>	Revert commit with new commit	Safe: keeps history

nothing added to commit but untracked files present \rightarrow Run: git add then git commit rejected / non-fast-forward \rightarrow Sync first: git pull --rebase origin , then git push error: src refspec does not match any \rightarrow Branch has no commits; commit at least once first