CommandX – Git & GitHub Cheat Sheet

50 Git Commands + 50 GitHub Commands (Professional Guide)

SECTION 1: GIT COMMANDS (50)

git init
Initializes a new Git repository in the current directory.

git clone
Downloads a remote repository from GitHub to your local system.

git status
Shows the current state of the working directory and staging area.

git add .
Stages all modified files for the next commit.

git commit -m "msg"
Saves staged changes with a descriptive message.

git log
Displays commit history of the repository.

git diff
Shows differences between files before committing.

git branch
Lists all branches in the repository.

git branch
Creates a new branch.

git checkout
Switches to another branch.

git checkout -b
Creates and switches to a new branch.

git merge
Merges another branch into the current branch.

git pull
Fetches and merges changes from remote repository.

git push
Uploads local commits to remote repository.

git remote -v
Shows remote repository URLs.

git fetch
Downloads objects from remote without merging.

git reset --hard
Resets working directory to last commit.

git stash
Temporarily saves uncommitted changes.

git stash pop
Restores stashed changes.

git rm
Deletes file from repository.

git mv
Renames or moves files.

git show
Shows details of a commit.

git revert
Reverts a commit without changing history.

git tag
Lists tags.

git tag
Creates a version tag.

git blame
Shows who modified each line.

git clean -f
Removes untracked files.

git shortlog
Summarizes commit history.

git config --global user.name
Sets global Git username.

git config --global user.email
Sets global Git email.

git reflog
Shows reference log.

git cherry-pick
Applies a commit from another branch.

git bisect
Helps find bugs using binary search.

git archive
Creates archive of files.

git submodule add
Adds a submodule.

git submodule update
Updates submodules.

git grep
Searches text in repository.

git worktree
Manages multiple working trees.

git notes
Adds notes to commits.

git describe
Shows nearest tag.

git log --oneline
Compact commit history.

git log --graph
Shows branch graph.

git reset HEAD~1
Undo last commit.

git pull --rebase
Rebases instead of merging.

git push -u origin main
Pushes and sets upstream.

git remote add origin
Adds remote repository.

git diff --staged
Shows staged changes.

git show HEAD
Shows last commit.

git help
Shows help for command.

SECTION 2: GITHUB COMMANDS & FEATURES (50)

gh auth login
Authenticates GitHub CLI with your account.

gh repo create
Creates a new GitHub repository.

gh repo clone
Clones a GitHub repository.

gh issue list
Lists issues in a repository.

gh issue create
Creates a new issue.

gh pr list
Lists pull requests.

gh pr create
Creates a pull request.

gh pr merge
Merges a pull request.

gh repo view
Views repository details.

gh repo fork
Forks a repository.

gh release create
Creates a new release.

gh release list
Lists releases.

gh gist create
Creates a GitHub gist.

gh gist list
Lists gists.

gh auth status
Shows authentication status.

gh workflow list
Lists GitHub Actions workflows.

gh workflow run
Triggers a workflow manually.

gh run list
Lists workflow runs.

gh run view
Views workflow run details.

gh repo edit
Edits repository settings.

gh repo delete
Deletes a repository.

gh pr checkout
Checks out a pull request locally.

gh issue close
Closes an issue.

gh issue reopen
Reopens an issue.

gh repo rename
Renames repository.

gh label list
Lists labels.

gh label create
Creates a label.

gh pr review
Reviews a pull request.

gh pr close
Closes pull request.

gh secret set
Adds repository secrets.

gh secret list
Lists secrets.

gh auth logout
Logs out from GitHub CLI.

gh repo sync
Syncs fork with upstream.

gh codespace list
Lists codespaces.

gh codespace create
Creates a codespace.

gh codespace ssh
Connects to codespace via SSH.

gh repo visibility
Changes repository visibility.

gh pr status
Shows PR status.

gh api
Makes GitHub API requests.

gh alias set
Creates CLI alias.

gh search repos
Searches repositories.

gh search issues
Searches issues.

gh org list
Lists organizations.

gh repo view --web
Opens repo in browser.

gh pr view
Views pull request.

gh issue view
Views issue.

gh extension install
Installs GitHub CLI extension.

gh extension list
Lists extensions.

gh help
Shows help for GitHub CLI.