**Basic Git Configuration**

git config --global user.name "Your Name" – Set your Git username globally  
git config --global user.email "your.email@example.com" – Set your Git email globally  
git config --list – View current Git configuration

**Starting a Repository**

git init – Initialize a new Git repository  
git clone <repository-url> – Clone an existing Git repository from a URL

**Staging and Committing Changes**

git status – Check the status of your working directory and staging area  
git add <file> – Stage specific file(s)  
git add . – Stage all changed files in the current directory  
git commit -m "Commit message" – Commit staged changes with a message

**Branching**

git branch – List all local branches  
git branch <branch-name> – Create a new branch  
git checkout <branch-name> – Switch to an existing branch  
git checkout -b <branch-name> – Create and switch to a new branch  
git merge <branch-name> – Merge another branch into the current branch

**Pushing and Pulling**

git remote -v – Show the remote URL(s) for the repository  
git remote add origin <url> – Add a new remote repository  
git push origin <branch> – Push local branch to the remote repository  
git push -u origin <branch> – Push and set upstream (tracks remote branch)  
git pull origin <branch> – Fetch and merge changes from remote  
git fetch – Download changes from the remote without merging

**Undoing Changes**

git reset <file> – Unstage a file while keeping changes  
git reset --hard – Revert everything to the last commit  
git checkout -- <file> – Discard changes in a specific file  
git revert <commit> – Create a new commit that undoes a previous one

**Viewing History**

git log – View commit history  
git log --oneline – Show compact one-line summary of commits  
git show <commit> – Show detailed information about a specific commit

**Tagging**

git tag – List all tags  
git tag <tagname> – Create a new tag  
git tag -a <tagname> -m "message" – Create an annotated tag with a message  
git push origin <tagname> – Push a tag to the remote repository

**Working with Remotes**

git remote add <name> <url> – Add a new remote  
git remote remove <name> – Remove a remote connection  
git remote rename <old> <new> – Rename a remote  
git remote set-url <name> <url> – Change the URL of a remote

**Stashing Work**

git stash – Temporarily save uncommitted changes  
git stash list – View all current stashes  
git stash apply – Apply the most recent stash  
git stash drop – Delete the most recent stash

**Syncing Forks (for GitHub)**

git remote add upstream <url> – Add original repository as upstream  
git fetch upstream – Fetch branches from upstream  
git merge upstream/main – Merge upstream's main into your local main

**Cleaning Up**

git clean -f – Remove untracked files  
git clean -fd – Remove untracked files and directories

**Other Useful Commands**

git diff – Show differences between working directory and index  
git diff --staged – Show differences between staged files and last commit  
git blame <file> – Show who made each line change in a file  
git cherry-pick <commit> – Apply changes from a specific commit  
git archive --format=zip HEAD > ../project.zip – Create a zip of the current project