

↑ 1. **Git Configuration**

Command	Purpose
git configglobal user.name "Your Name"	Set global username
<pre>git configglobal user.email "you@example.com"</pre>	Set global email
git configglobal core.editor "codewait"	Set VSCode as default editor



2. Repository Setup

Command	Purpose
git init	Initialize a new local Git repository
<pre>git clone <repo_url></repo_url></pre>	Clone a remote repository
<pre>git remote add origin <repo_url></repo_url></pre>	Add a remote named origin
git remote -v	View remote URLs



3. Basic Workflow

Command	Purpose
git status	Show changes in working directory
<pre>git add <file></file></pre>	Stage a specific file
git add .	Stage all changes
git commit -m "message"	Commit staged changes with a message
git push origin branch>	Push commits to remote branch
git pull origin branch>	Pull latest changes from remote
git fetch	Fetch remote changes without merging



4. Branching & Merging

Command	Purpose
git branch	List branches
<pre>git branch <name></name></pre>	Create a new branch
<pre>git checkout <branch></branch></pre>	Switch to a branch
<pre>git checkout -b <branch></branch></pre>	Create and switch to a new branch

Command	Purpose
git merge <branch></branch>	Merge specified branch into current
git branch -d <branch></branch>	Delete a branch

5. Undoing & Resetting

Command	Purpose
git reset <file></file>	Unstage a file
git checkout <file></file>	Revert file to last committed version
<pre>git revert <commit></commit></pre>	Create a new commit that undoes changes
<pre>git resethard <commit></commit></pre>	Reset to a previous commit (DANGEROUS)

🟂 6. Log & History

Command	Purpose
git log	View commit history
git logoneline	View simplified log

Command	Purpose
git diff	Show unstaged changes
git diffstaged	Show staged changes



7. Tagging

Command	Purpose
git tag	List tags
<pre>git tag <tag_name></tag_name></pre>	Create a new tag
git push origin <tag_name></tag_name>	Push a tag to remote



8. Working with GitHub (or GitLab, Bitbucket)

Command	Purpose
git push -u origin <branch></branch>	Push new branch and set upstream
gh auth login	Authenticate GitHub CLI (if using gh)
<pre>git clone git@github.com:user/repo.git</pre>	Clone via SSH

Notes

- Use git help <command> for details (e.g., git help push)
- Always pull (git pull) before pushing to avoid merge conflicts
- To **ignore files**, create a .gitignore file in the root