

Configuration

<code>git config --global user.name "Your Name"</code>	Set your username globally.
<code>git config --global user.email "your.email@example.com"</code>	Set your email globally

Starting a Repository

<code>git init</code>	Initialize a new Git repository in the current directory.
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Basic Workflow

<code>git status</code>	Check the status of your working directory and staging area
<code>git add <file></code>	Add a file to the staging area.
<code>git commit -m "- Commit message"</code>	Commit changes with a descriptive message
<code>git commit -am "- Commit message"</code>	Add and commit changes in one step (only for modified files, not new files).
<code>git add submodule <link> <Directory></code>	Adding a submodule

Branching

<code>git branch</code>	List all local branches
<code>git branch <branch_name></code>	Create a new branch
<code>git checkout <branch_name></code>	Switch to a different branch
<code>git checkout -b <branch_name></code>	Create and switch to a new branch in one step
<code>git merge <branch_name></code>	Merge changes from <branch_name> into the current branch
<code>git branch -d <branch_name></code>	Deleting a branch

Remote Repositories

<code>git remote add <name> <url></code>	Add a new remote repository
<code>git remote -v</code>	List all remote repositories
<code>git pull <remote> <branch></code>	Fetch changes from the remote repository and merge them into the current branch
<code>git push <remote> <branch></code>	Push changes from the local repository to the remote

Inspecting Changes

<code>git log</code>	View commit history
<code>git diff</code>	Show changes between commits, commit and working tree, etc
<code>git show <commit_hash></code>	Show details of a specific commit

Undoing Changes

<code>git reset HEAD <file></code>	Unstage a file from the staging area.
<code>git checkout -- <file></code>	Discard changes in the working directory for a specific file
<code>git reset --hard <commit_hash></code>	Reset the repository to a specific commit (WARNING: this is a destructive operation).

Miscellaneous

<code>git clone <repository_url></code>	Clone a remote repository to your local machine
<code>git pull</code>	Fetch changes from the remote repository and merge them into the current branch
<code>git push</code>	Push changes from the local repository to the remote repository
<code>git submodule update --remote</code>	Updating submodule



Optional tags

-a, --all	Includes all changes (both tracked and untracked files) when executing the command
-m, --message <message>	Specifies a commit message inline with the command
-b, --branch <branch_name>	Specifies the branch name when creating a new branch or switching branches
-f, --force	Forces the command to execute, even if it would result in data loss or conflicts
-t, --tags	Pushes tags along with the commits when pushing changes to a remote repository
-u, --set-upstream <upstream>	Sets the upstream branch for the current branch
-v, --verbose	Provides more detailed output, often helpful for debugging or understanding what the command is doing
-p, --patch	Allows for interactive patching of changes (e.g., for selecting specific changes to include in a commit)
-d, --delete	Deletes a branch or tag
-i, --interactive	Runs the command in interactive mode, allowing for user input and interaction



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