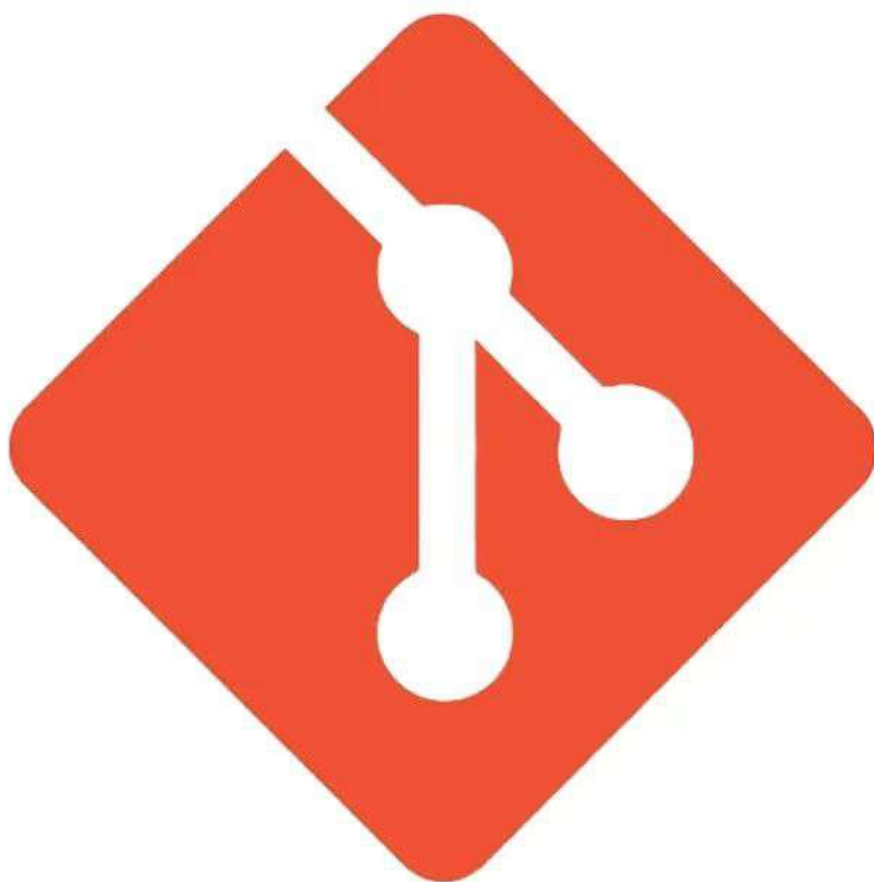




Harry
coding_knowledge

Git

Commands



Swipe →

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Configuring Git

- **git config --global user.name "Your Name"**: Set the name that will be attached to your commits.
- **git config --global user.email "your.email@example.com"**: Set the email that will be attached to your commits.
- **git config --global core.editor "code --wait"**: Set the default editor used by Git.
- **git config --list**: List all the Git Configurations.

Getting and Creating Projects

- **git init [project-name]**: Create new local repository.
- **git Clone [url]**: Clone a repository into a new directory.

Swipe →

Basic snapshotting

- **git add [file]** : Add a file to the staging area.
- **git add .** : Add all new and changed files to the staging area.
- **git commit -m "commit message"**: commit changes to the repository with a message.
- **git status** : show the status of changes as untracked, modified, or staged.
- **git diff**: Show differences between working directory and index.
- **git diff --staged**: show differences between the index and the last commit.
- **git reset [file]**: Unstage a file while retaining changes in working directory.
- **git reset --hard**: Reset the working directory to the last commit.

Branching and Merging

- **git branch**: List branches.
- **git branch [branch-name]**: Create a new branch.
- **git checkout [branch-names]**: Switch to a branch.
- **git merge [branch-name]**: Merge a branch into the current branch.
- **git branch -d [branch-name]**: Delete a branch.

Sharing and Updating projects

- **git remote add [alias][url]**: Add a remote repository.
- **git fetch [alias]**: Fetch changes from a remote repository.
- **git pull [alias][branch]**: Fetch and merge changes from a remote branch.
- **git push [alias] [branch]**: push changes to a remote branch.
- **git push --set-upstream [alias] [branch]**: Push a branch to a remote repository and set it as the upstream branch.

Inspection and Comparison

- **git log**: show the commit history.
- **git log --online --graph --decorate --all**: show a graph of the commit history.
- **git show [commit]**: Show information about a specific commit.
- **git diff [commit1] [commit2]**: Show differences between two commits.

Undoing changes

- **git revert [commit]**: Create a new commit that undoes the changes from a previous commit.
- **git reset --hard [commit]**: Rest the Working directory and staging area to match a commit.
- **git clean -f**: Remove untracked files from the working directory.

Advanced Branching and Merging

- **git rebase [branch]:** Reapply commits on top of another base tip.
- **git cherry-pick [commit]:** Apply the changes introduced by some existing commits.

Tagging

- **git tag:** List tags.
- **git tag [tag-name]:** create a new tag.
- **git tag -d [tag-name]:** Delete a tag.
- **git push [alias] [tag-name]:** Push tag to a remote repository

Rewriting History

- **git commit --amend:** Modify the most recent commit.
- **git rebase -i [base]:** Interactively rebase commits onto another base.

submodules

- **git submodule add [url] [path]:** Add a submodule.
- **git submodule init:** Initialize the submodules.
- **git submodule update:** update the submodules.