

ASCII Pre-Requisite:

Configuration

- git config --global user.name "Your Name": Sets the name you want attached to your commit messages.
- git config --global user.email "you@example.com": Sets the email you want attached to your commit messages.
- git config --list: Lists all the Git configurations.

Repository Setup

- git init : Initializes a new Git repository.
- git clone <repo>: Clones a repository into a new directory.

Basic Snapshotting

- git add <file>: Adds a file to the staging area.
- git add .: Adds all changes in the current directory to the staging area.
- git commit -m "message": Commits the staged snapshot with a message.
- git status: Displays the state of the working directory and staging area.
- git diff: Shows the differences between files in the working directory and the staging area.

- git reset <file>: Unstages a file without discarding changes.
- git rm <file>: Removes a file from the working directory and stages the deletion.
- git mv <oldfilename> <newfilename>: Renames a file and stages the change.

Branching and Merging

- git branch: Lists all branches in the repository.
- git branch <branchname> : Creates a new branch.
- git checkout <
- git checkout -b
branchname>: Creates and switches to a new branch.
- git merge <branchname>: Merges the specified branch into the current branch.
- git branch -d <branchname> : Deletes the specified branch.

Remote Repositories

- git remote add <name> <url>

 Adds a remote repository.
- git remote -v: Lists the remote connections.
- git fetch <remote>: Fetches the branches and their commits from the remote repository.
- git pull <remote> : Fetches and merges changes from the remote repository into the current branch.
- git push <remote> <branch>: Pushes the changes from the local branch to the remote repository.
- git remote rm <name>: Removes a remote repository.

Inspecting and Comparing

- git log: Shows the commit history for the current branch.
- git log --oneline: Shows a compressed view of the commit history.
- git show <commit>: Shows details of a specific commit.
- git diff <branch1> <branch2>: Shows differences between two branches.
- git blame <file>: Shows who made changes to each line of a file.

Undoing Changes

- git revert <commit>: Reverts a specific commit.
- git reset --hard <commit>: Resets the current branch to a specific commit, discarding all changes.
- git clean -f: Removes untracked files from the working directory.
- git stash: Temporarily stores changes in the working directory.
- git stash pop: Restores the stashed changes.

Tagging

- git tag: Lists all tags.
- git tag -a <tagname> -m "message": Creates an annotated tag.
- git push <remote> --tags: Pushes all tags to the remote repository.

Advanced Commands

- git cherry-pick <commit>: Applies a specific commit from another branch.
- git bisect: Uses binary search to find the commit that introduced a bug.
- git reflog: Shows a log of all reference updates.

Collaboration

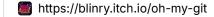
- git pull request: (Platform-specific) Creates a pull request (on GitHub, GitLab, etc.).
- git submodule add <url> <path>: Adds a submodule to your repository.
- git submodule update --init --recursive: Clones all submodules and checks out the appropriate commits.

GitHub/GitLab Specific

- gh repo clone <repo>: Clones a GitHub repository using GitHub CLI.
- glab repo clone <repo>: Clones a GitLab repository using GitLab CLI.

Oh My Git!

An open source game about learning Git!





How to level up your GitHub profile README (Basic to Pro!)

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- https://youtu.be/DWFs6aqknqw?si=7ssFab2TuSVTzjjb



https://code.visualstudio.com/download

Extensions:

Live Server

Prettier (Format) On save ,Default Formatter

Code Spell Checker

Babel Javascript

Error Lens

ESLint

AutoOpen MarkDown Preview

Git History and Git Graph