# Git Commands and Their Usage (Table Format)

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| **Git Command** | **Usage Description** |
| git init | Initialize a new Git repository in the current directory. |
| git clone <repo\_url> | Clone (copy) a remote repository to your local machine. |
| git status | Show the working directory status, including staged, unstaged, and untracked files. |
| git add <file> | Stage one or more files for the next commit. Use `.` to add all changes. |
| git commit -m "message" | Commit staged changes to the repository with a descriptive message. |
| git log | Show commit history. |
| git diff | Show unstaged changes between working directory and the index (staging area). |
| git diff --staged | Show changes between staged files and the last commit. |
| git branch | List all local branches. |
| git branch <branch\_name> | Create a new branch with the specified name. |
| git checkout <branch\_name> | Switch to the specified branch. |
| git checkout -b <branch> | Create and switch to a new branch in one step. |
| git merge <branch\_name> | Merge the specified branch into the current branch. |
| git remote -v | List configured remote repositories and their URLs. |
| git remote add <name> <url> | Add a new remote repository with a short name. |
| git fetch | Fetch updates from the remote repository without merging. |
| git pull | Fetch and merge changes from the remote repository to the current branch. |
| git push | Push committed changes from local to remote repository. |
| git push -u origin <branch> | Push the branch to remote and set it to track the remote branch. |
| git reset <file> | Unstage a file (remove it from staging area but keep changes in working directory). |
| git reset --hard | Reset working directory and staging area to last commit (discard all changes). |
| git stash | Temporarily save changes that are not ready to commit. |
| git stash pop | Reapply the latest stashed changes and remove them from stash. |
| git stash list | List all stashed changes. |
| git tag <tag\_name> | Create a tag at the current commit (used for marking releases). |
| git show <commit/tag> | Show details of a commit or tag. |
| git log --oneline | Show a simplified commit history (one commit per line). |
| git cherry-pick <commit> | Apply the changes from a specific commit onto the current branch. |
| git blame <file> | Show line-by-line changes with author info for a file. |
| git clean -f | Remove untracked files from the working directory. |
| git config | Configure Git settings (e.g., username, email, editor). |
| git config --global user.name "Name" | Set global Git username. |
| git config --global user.email "email@example.com" | Set global Git email. |
| git revert <commit> | Create a new commit that undoes the changes of a specific commit. |