## **Git Commands and Their Options**

## Initializes a new Git repository in the current directory. Options: --bare: Creates a bare repository (for sharing, no working directory). 2. git clone <url> Copies a remote repository to your local machine. Options: --branch <br/> --branch > or -b: Clone a specific branch. --depth <number>: Perform a shallow clone with limited history. 3. git add <file> Stages changes to be committed. Options: -p or --patch: Add changes interactively. -A or --all: Add all changes (tracked and untracked). 4. git commit Saves staged changes to the repository. Options: -m "<message>": Adds a commit message inline. --amend: Modify the last commit.

1. git init

5. git status

Shows the status of your working directory and staging area.
Options:
-s orshort: Displays a compact summary.
ignored: Lists ignored files.
6. git log
Displays the commit history.
Options:
oneline: Shows each commit on one line.
graph: Displays a visual graph of commits.
since= <date>: Shows commits since a specific date.</date>
7. git diff
Shows the differences between commits, branches, or the working directory.
Options:
staged: Show changes that have been staged.
color: Highlights changes in color.
8. git branch
Manages branches in the repository.
Options:
-d <branch>: Deletes a branch.</branch>
r: Lists remote branches.
-m <old> <new>: Renames a branch.</new></old>
9. git checkout

Switches branches or restores files.

Options:
-b branch>: Creates and switches to a new branch.
<file>: Restores a file from the index.</file>
10. git pull
Fetches and merges changes from the remote repository.
Options:
rebase: Re-applies your changes on top of the fetched changes.
11. git push
Sends your local commits to the remote repository.
Options:
force: Forces the push (overwrites remote changes).
tags: Pushes all tags.
12. git remote
Manages remote repositories.
Options:
add <name> <url>: Adds a remote.</url></name>
remove <name>: Removes a remote.</name>
13. git merge
Combines changes from another branch into the current branch.
Options:
no-ff: Creates a merge commit even for fast-forward merges.

--abort: Stops the merge and resets to the previous state.

list: Lists all configuration settings.