

# **Git Cheat Sheet**

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# Git configuration and setup

- git config -global user.name Name": Set "Your vour username globally.
- git config -global user.email "youremail@example.com" Set your email globally.
- git help: Display the main help documentation, showing a list commonly Git used commands.
- git config --list: List all settings.

## **Initializing a Repository**

- git init: initializes a new Git repository in the current directory.
- git init <directory>: Creates a new Git repository in the specified directory.
- git clone <url>: This clones a repository from a remote server to your local machine.

#### **Basic Git Commands**

- git add <file>: Adds a specific file to the staging area.
- git add . : Adds all modified and new files to the staging area.
- git status: Shows the current state of your repository, tracked including and untracked files, modified files, and branch information.
- git status -ignored: Displays ignored files in addition to the regular status output.
- git diff: Shows the changes between the working directory and the staging area.
- diff <commit1\_id> • git <commit2\_id>: Displays the differences between two commits.
- git diff HEAD: Display the difference between the current directory and the last commit.

- git commit -m "<message>": Creates a commit with the new changes in the staging area and specifies the commit message inline.
- git restore <file>: Restores the file in the working directory to its state in the last commit.
- git reset <commit>: Moves the branch pointer to a specified commit, resetting the staging area and the working directory to match the specified commit.
- git reset -hard <commit>: Moves the branch pointer to specified commit, discarding all changes in the staging area and the working directory, resetting repository to the specified commit.

### **Branching & Merging**

- git branch: Lists all branches in the repository.
- git branch <br/>branchname>: Creates a new branch with the specified name.
- git branch -d <branch-</li> Deletes the name>: specified branch.
- git branch -a: Lists all local and remote branches.
- git branch -r: Lists all remote branches.
- git checkout <br/>branchname>: Switches to the specified branch.
- git checkout -b <new-</li> branch-name>: Creates a new branch and switches to it.





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- the specified branch into the current branch.
- git log: Displays the commit history of the current branch.
- git log -all: Displays the history commit of all branches.
- Stashes • git stash: the changes in the working directory, allowing you to switch to a different branch without commit or committing the changes.
- git stash list: Lists all stashes in the repository.
- git stash pop: Applies and removes the most recent stash from the stash list.
- git stash drop: Removes the most recent stash from the stash list.

### **Remote Repositories**

- git fetch: Retrieves change from a remote repository, including new branches and commit.
- fetch <remote>: • git Retrieves change from the specified remote repository.
- git fetch -prune: Removes remoteany tracking branches that no longer exist on the remote repository.
- git pull: Fetches changes the from remote repository and merges them into the current branch.
- git push: Pushes local commits to the remote repository.

- git push <remote>: Pushes local commits to the specified remote repository.
- push • git <remote> <br/> **branch>**: Pushes local commits to the specified branch of the remote repository.
- git push -all: Pushes all branches to the remote repository.
- git remote: Lists all remote repositories.
- git remote add <name> <ur><url>url>: Adds a new remote repository with the specified name and URL.

## **Git Comparison**

• git show: Shows the details specific commit, including its changes.

• git show <commit>: Shows the details of the specified including commit, its changes.

### **Git Managing History**

- git revert <commit>: Creates a new commit that undoes the changes introduced by the specified commit.
- git revert -no-commit <commit>: Undoes changes introduced by the specified commit, but does not create a new commit.
- git rebase <br/>
  <br/>
  dranch>: Reapplies commits on the current branch onto the tip of the specified branch.