

Git Cheat Sheet - Git Commands You Should Know

Git is a distributed version control system that helps developers collaborate on projects of any scale.



How to check your Git configuration:

```
git config -l
```

How to setup your Git username:

```
git config --global user.name "zahid"
```



How to setup your Git user email:

```
git config --global user.email  
"zahidgul107@gmail.com"
```

How to initialize a Git repo:

```
git init
```



How to add a file to the staging area in Git:

```
git add filename_here
```

How to add all files in the staging area in Git

```
git add .
```



How to add only certain files to the staging area in Git

```
git add fil*
```

How to check a repository's status in Git:

```
git status
```



How to commit changes with a message in Git:

```
git commit -m "your commit  
message here"
```

How to commit changes (and skip the staging area) in Git:

```
git commit -a -m "your commit  
message here"
```



How to see your commit history in Git:

`git log`

How to see your commit history including changes in Git:

`git log -p`



How to see a specific commit in Git:

```
git show commit-id
```

How to see log stats in Git:

```
git log --stat
```



How to see changes made before committing them using "diff" in Git:

`git diff`
(shows only unstaged changes)

`git diff all_checks.py`
(specific file)

`git diff --staged`(shows only unstaged
changes)



How to remove tracked files from the current working tree in Git:

```
git rm filename config -l
```

How to rename files in Git:

```
git mv oldfile newfile
```



How to ignore files in Git:

Create a .gitignore file and commit it.

How to revert unstaged changes in Git:

`git checkout filename`



How to revert staged changes in Git:

```
git reset HEAD filename
```

How to amend the most recent commit in Git:

```
git commit --amend
```



How to rollback the last commit in Git:

```
git revert HEAD
```

How to rollback an old commit in Git:

```
git revert comit_id_here
```



How to create a new branch in Git:

```
git branch branch_name
```

How to switch to a newly created branch in Git:

```
git checkout branch_name
```



How to list branches in Git:

```
git branch
```

How to create a branch in Git and switch to it immediately:

```
git checkout -b branch_name
```



How to delete a branch in Git:

```
git branch -d branch_name
```

How to merge two branches in Git:

```
git merge branch_name l
```



How to show the commit log as a graph in Git:

```
git log --graph --oneline
```

How to show the commit log as a graph of all branches in Git:

```
git log --graph --oneline --all
```



How to abort a conflicting merge in Git:

```
git merge --abort
```

How to add a remote repository in Git

```
git add remote https://repo_here
```



How to see remote URLs in Git:

```
git remote -v
```

How to get more info about a remote repo in Git:

```
git remote show origin
```



How to push changes to a remote repo in Git:

`git push`

How to pull changes from a remote repo in Git:

`git pull`



**How to check remote
branches that Git is tracking:**

`git branch -r`

**How to fetch remote repo
changes in Git
(download remote changes
without merging):**

`git fetch`



How to check the current commits log of a remote repo in Git

```
git log origin/main
```

How to merge a remote repo with your local repo in Git:

```
git merge origin/main
```



**How to get the contents of
remote branches in Git
without automatically
merging:**

`git remote update`

**How to push a new branch to
a remote repo in Git:**

`git remote update`



How to remove a remote branch in Git:

```
git push --delete origin  
branch_name_here
```

How to use Git rebase:

```
git rebase branch_name_here
```



How to force a push request in Git:

```
git push -f
```



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