



Commands

GIT

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Command	Description
Main Operations	
git init	initialize current project folder for version control (creates .git files)
git status	show status of current branch: the changes that need to be staged (tracked) or committed
git add .	add all changed files to stage/index
git add FILE	add file to stage/index
git rm FILE --cached	remove files from stage/index
git rm FILE	delete file
git commit -m "MESSAGE"	commit changes
git commit -m.	commit changes without message
git commit --amend	Edit/overwrite last commit
git revert COMMIT_ID	undo by creating a new commit with reverted changes from previous commit
git reset COMMIT_ID	 [Danger] commits (removes all commits until selected one & make changes untracked) Flags: --hard (force remove changes) , --soft (put changes in stage)
git checkout FILE	[Danger] restore file from last commit and remove uncommitted changes
git mv old_FILE new_FILE	rename file
git log	show history of commits
git log -p	show history of commits & changes
git log -p --author=userName	show history of commits & changes by specific user
git log -p --since=2.days	show history of commits & changes in time duration (minutes, hours, weeks, etc...)
git blame FILE	show when each line was last modified in file & who did it
Branches Operations	
git branch	list all local branches
git branch -a	show all including remote branches
git branch BRANCH_NAME	create new branch
git branch -d BRANCH_NAME	delete branch
git checkout BRANCH_NAME	move to branch
git merge BRANCH_NAME	merge a branch to current branch (in new commit)
git rebase BRANCH_NAME	merge a branch to current branch (editing commits chain of current branch)
Remote Operations	
git clone REPO_URL	get copy of remote repo
git remote add REPO_NAME REPO_URL	add remote repo
git pull REMOTE_REPO_NAME REMOTE_BRANCH_NAME	get remote repo latest files
git fetch REMOTE_REPO_NAME REMOTE_BRANCH_NAME	get remote repo changes history
git push REMOTE_REPO_NAME REMOTE_BRANCH_NAME	update remote repo
git remote	show all remote repos
git push REMOTE_REPO_NAME --delete REMOTE_BRANCH_NAME	delete remote branch

creating .gitignore

make a file .gitignore without extensions and add directories & files

Example:

```
# comment: Project exclude paths
/folder/
file.txt
```

updating .gitignore (untrack files)

add file path in .gitignore file then Open git bash and Run:

```
git rm -r --cached .
```

Auth with Token instead of password (passwords removed)

github website > Settings > Developer Settings > Generate New Token

copy token

method 1:

add remote repo url and login with user name and paste token in password

method 2:

replace the link below with your data and use it as remote repo url

https://{PROJECTNAME}:{TOKEN}@github.com/{USER_OR_ORG}/{REPOSITORYNAME}.git