

git HUB

...

# github

What is GIT? → version control  
↓  
Time Machine  
Check points (commit)  
Synchronize Branches.

→ Git Config

```
# git config --global user.name  
"Your Name"
```

```
# git config --global user.email  
"your Email"
```

→ Open git bash

→ Prepare a folder to push directories & open the folder in vs code.

In terminal, command

→ # git init // (initialize git towards files)

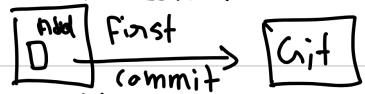
→ Staging files.

```
# git add .
```



→ Commit files with a message

# git commit -m "First Commit"



→ To see last log of commit -

# git log

⇒ Git Environments

# git status || (To see at position the files are)

→ To Restore files (last commit)

# git restore --staged README.md  
(To discard changes in working directory)

→ # git restore . || (it will take back the file)

→ Why Ignore files?

- Sensitive info
- Personal notes
- System files -

→ create a file name  
in that

paste this →

- DS\_Store
- VSCode / authentication .js
- node\_modules
- notes /
- \*\* / - tools .md

& add & commit it.

So whenever you will make file it will  
hided, when you check git status.

## Global Ignore File

```
# git config --global core.excludes  
file [file]
```

It will automatically exclude file if  
added.

To clear the cache :

```
# git rm -r --cached
```

→ To delete a file in git  
# git rm index.html  
|| automatically deleting from git.

→ To restore the file  
# git restore -S index.html ||(or .)  
# git restore.

---

⇒ To rename a file in git.  
# git mv index.html home.html  
(saves up staging a file)

---

→ Difference between the files  
# git diff || (if you modify anything  
it will show you what you  
have done)

---

## gitlog

# git log -- oneline (Shows logs  
in one line)

---

## Branches

# git branch // (display branches)

---

## New Branches

# git switch -c fix-classes  
|| (& then you can modify changes,  
resting previous work in the original  
state)

# git switch main  
|| (just to change branches)

---

## Merging Branches

# git merge fix-classes

→ (Additional branch)

1) (fix-classes added to main branch)

## → Deleting Branches

branch

# git ^ -d fix-classes (To delete a branch)

# git branch --delete } (Alternative  
# git branch -D } Commands

## → Merge Conflicts

install

1) First ^ live Server in VS Code .

2) Open live server through

ctrl + shift + p

3) Start live server.

→ Create another branch , → fix it → commit it  
& another merge it again ←

# git Stash

grey

Methods →

Modify to → # git stash  
Blue background (stored the condition)

# git stash list  
(list the stashes)  
Blue

> can also → Modify  
git restore . to Red background  
(dark grey)

git stash list ←  
# git stash ←  
pop ←  
(Getting Red)  
Colours  
Red  
Blue

Red  
(dark grey)  
# git stash

(Dark grey) → git stash pop Blue  
git restore . → (Blue)

git commit -m "Blue-added" ← git add . ←

Now you can  
add it if you  
want

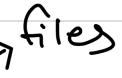
\* You can also use # git stash apply  
without removing the item  
from the stash. ↗

↓ we used  
"pop"

## git Clear

# git clean -n  files (if you added new folder or files)

(I) (display files)

# git clean -d n  files  
display directories (folders)

# git clean -d f → directories & files

+ git clean -d n → only files

⇒ More on git stash (Again)

i) we modify code → # git stash

(Blue)

(return to original state)  
(grey)

→ for ex:

2) #git stash list (List of stacks of modifications)

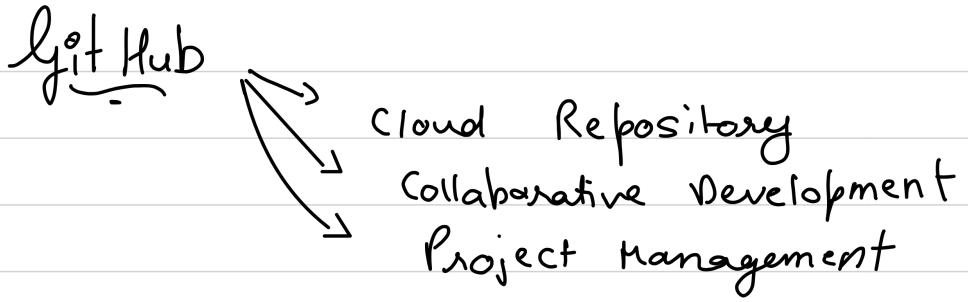
^ stores in index form (0,1,2...)

- 3) # git stash apply → return the modified code.
- 4) # git restore . (To go back to original state)
- 5) Let take one more modification (Red)
- 6) # git stash (Red → list & original code)  
(so blue → index-1 & red → index-0)
- 7) # git stash list
- 8) # git stash pop (will get last item on list & delete it)
- 9) # git stash list
- 10) # git restore .
- 11) # git stash pop .
- 12) & if you want add it then  
# git add .  
# git commit -m ""

---

To Rename Master to main :

# git branch -m master main



- Open your GitHub profile.
- 1) give repository name - "GitHub project"  
        & you can also add description  
        (optional) if you want

2) redirect to setup page.

→ Pushing :

    1) Adding Remotes

    # git remote add origin

    https://.....

2) # git push --all

(All the branches & main)

(optional 3)  
for 1 file)

# git push -u origin main  
(if you want to push a particular file)

\$ git branch  
-m master  
main

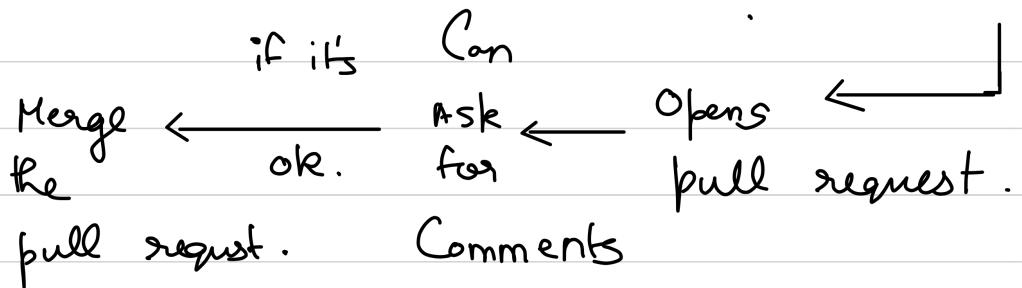
4) For Authentication use token from  
github # git remote set-url origin  
`https://(token)@github.com/username`  
---  
or you can clone the repository &  
paste files in that way.

## → Pull Request (in github)

For ex: open `- index.html` & make a  
change like title "Hello, welcome"



review the change & commit  
to main or can  
create a new branch.



(can also hold labels) & can

close the issue by connecting it.

---

→ Organize Projects

go to manage access → invite a friend

→ My friend can review & make issues  
& comments about the project.



Can answer by comment & can add  
milestone.

→ You can Create a project:

→ go to project & create one with  
predefined template.

& can add the comment in to-dos,  
progress & etc.

# → Syncing github.

# git clone https://....

(To Copy on Local device)

# (in visual code) git fetch

(To get all new data but will not modify it)

# git pull (integrate the remote data with the local files)

→ we can create a releases to store different version.

```
Changes not staged for commit.
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
  (use "git add -A" to stage all changes)
  (use "git commit -m <description>" to record changes)
  (use "git commit --no-edit" if you made this just to push -a)
  (use "git commit --amend" if you want to amend the last commit)
  (use "git commit --allow-empty" if you want to push an empty commit)

# git add .
# git commit -m "changes instruction line - 21st, Oct. 2023"
# git push --all
To https://github.com/ayushsutariya/Check_sql.git
! [rejected]          main > main (non-fast-forward)
error: failed to push some refs to 'https://github.com/ayushsutariya/Check_sql.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

# git push --force --all
```



if error comes like this .

```
# git rebase main ] } your main  
# git push origin main [ branch name)
```



Some times merge would clutter the history , so to make it reverse & to make it do again we use rebase .