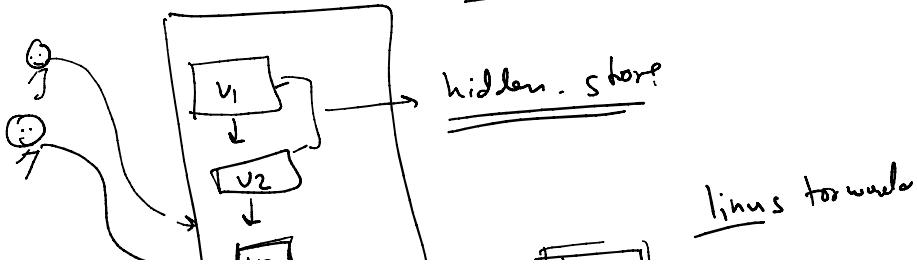


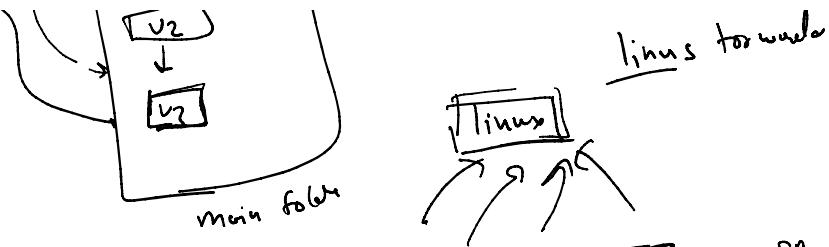
- Repository → work (project) folder

- Versions → Previous working code → State, check points

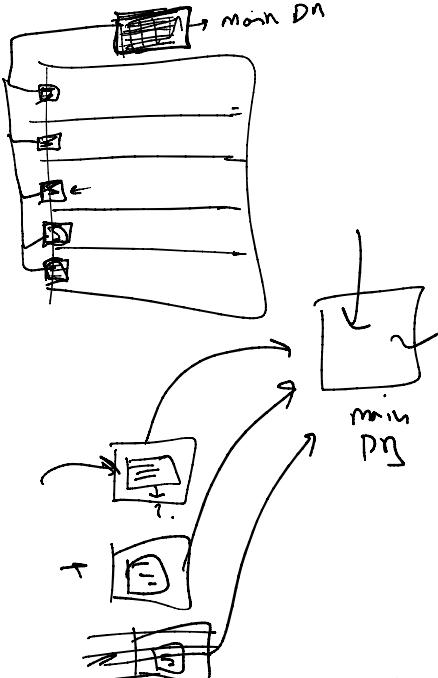
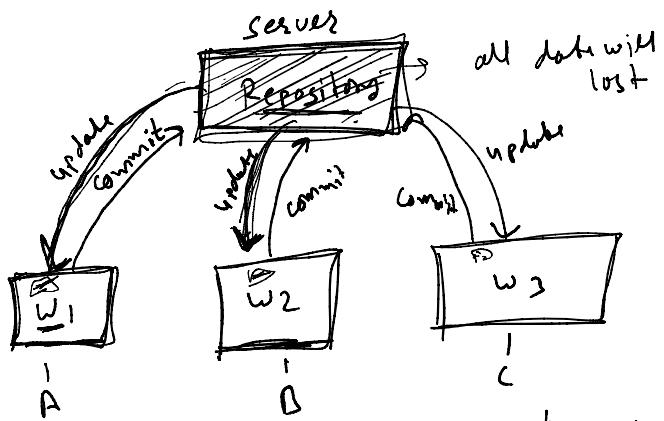
- one-code.py → 3 for 1.0
- two-code.py → 4 for 2.0
- three-code.py → 6 for 3.0

→ SVN, SCM      Version Control System  
(VCS)





## → Centralized VCS

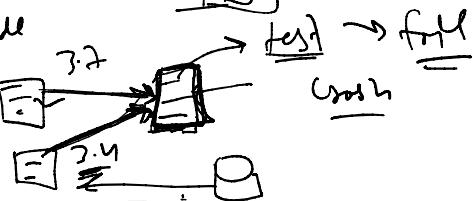


(i) speed of Development (network connection)

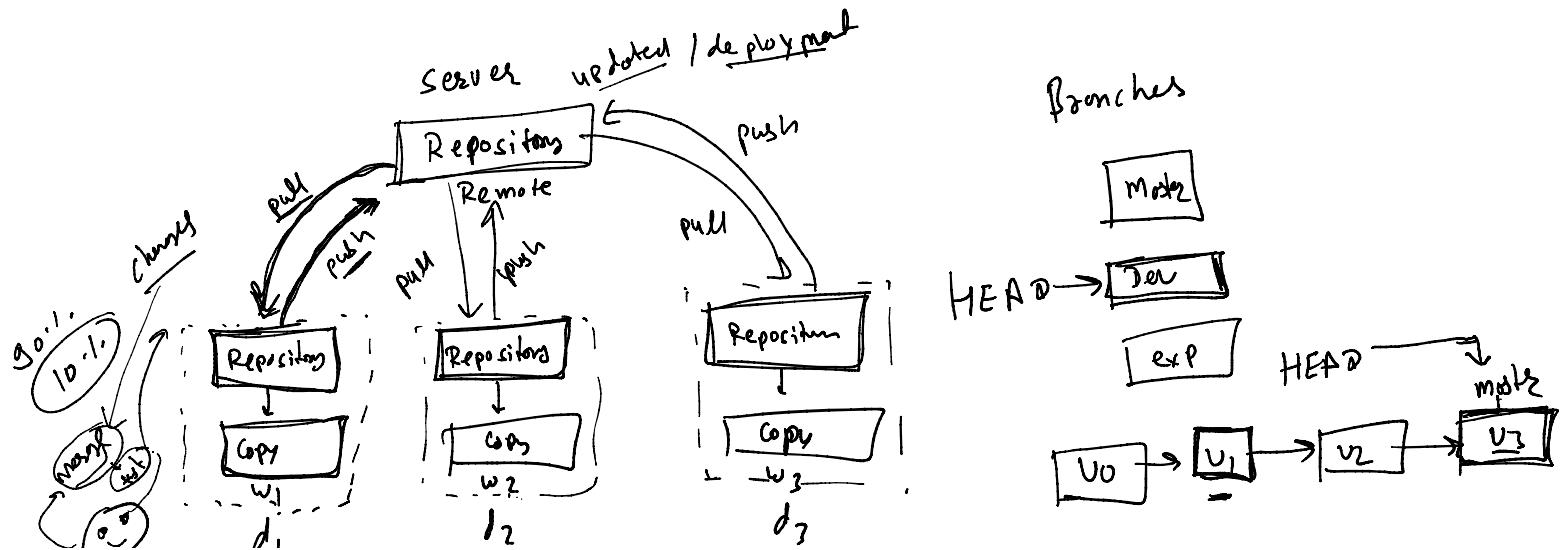
(ii) No Branching concept so merging code becomes headache

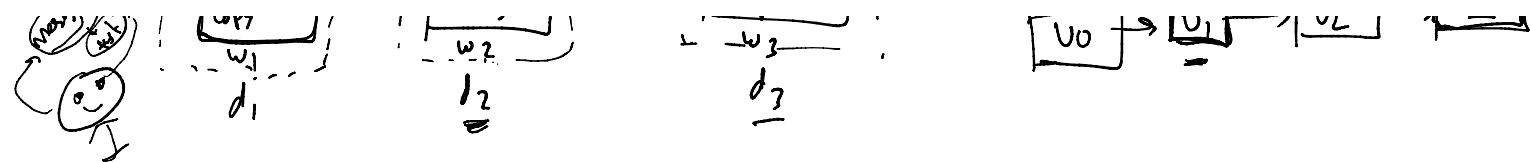
(iii) single point of failure

(iv) Not so smooth

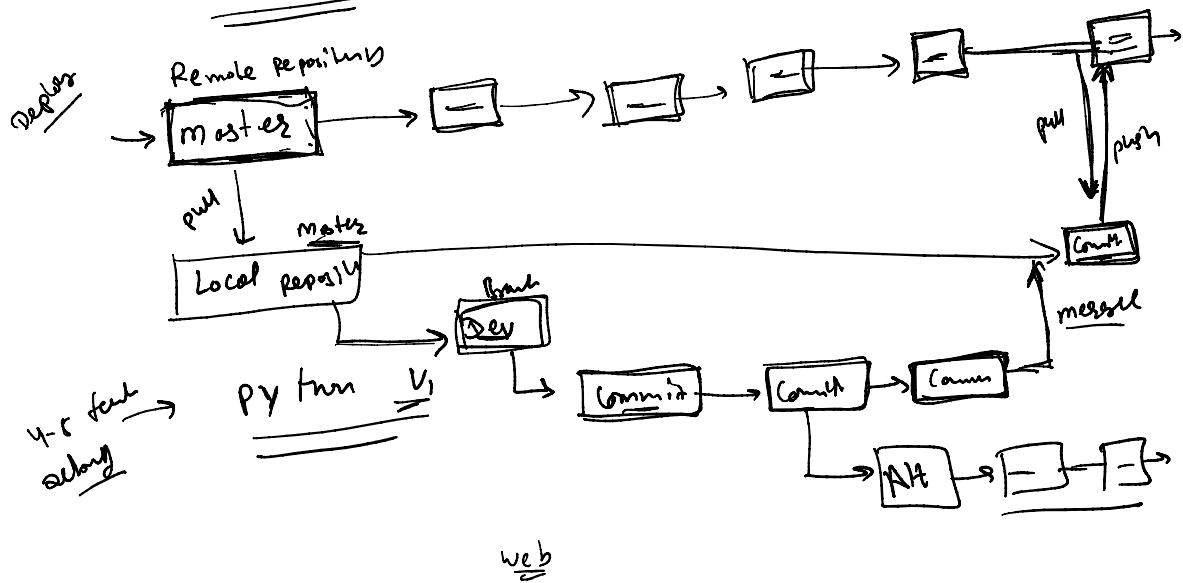


## → Distributed VCS (Git)

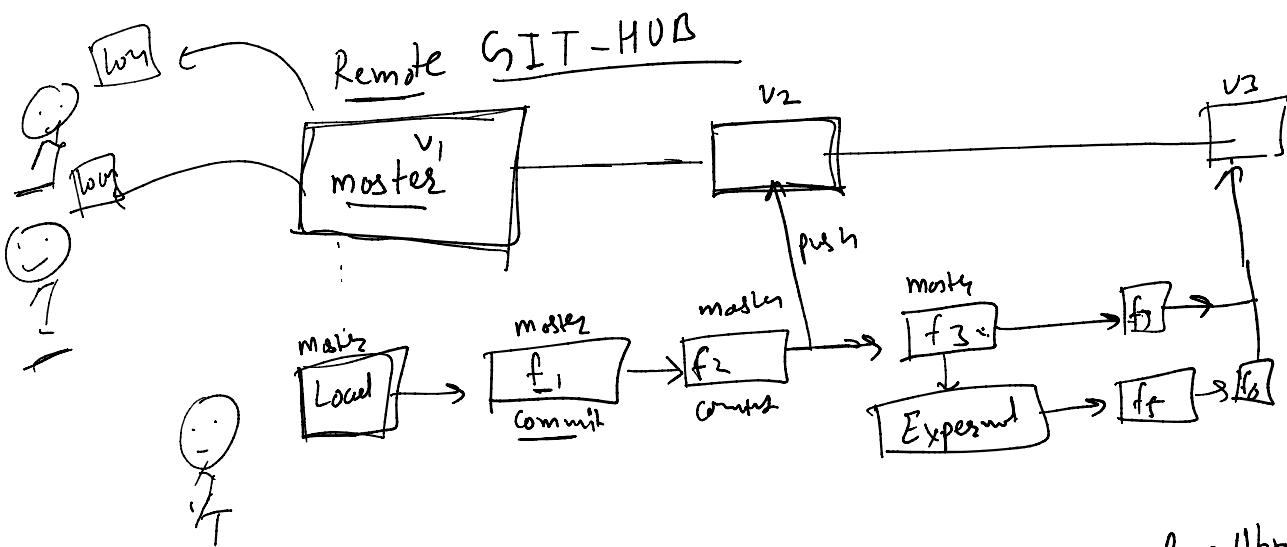




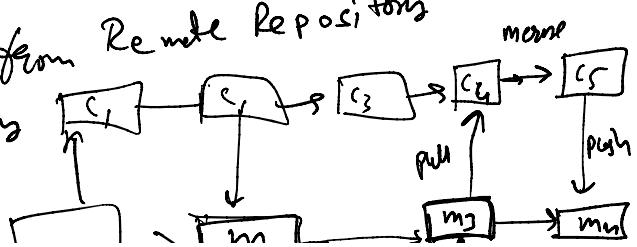
→ Branching



web

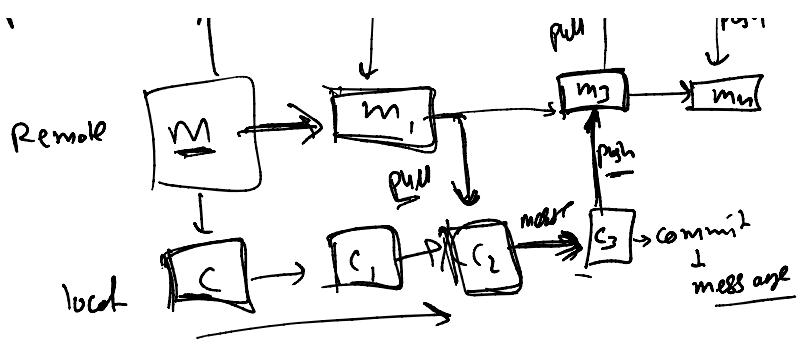


- ① Repository → Project folder in which we want collaboration
- ② Commit → creating a version or check point in history of time, later on we can rollback to this particular point
- ③ pull → fetching changes from Remote Repositories to local repository



to local repo

- ④ push → updating Remote Repository with own changes



- ⑤ Branch → A separate copy of local Repository where you experiment your ideas, it will not reflect any changes into master branch until unless you merge.

- ⑥ add → Used to add new files, so that git can track them

- ⑦ log → to check history of Development

- ⑧ log → to check history of Development

- ⑨ merge → Reviewing others code and updating your contributions with their work

- ⑩ init → Initialization at a directory as git repository

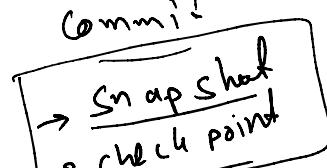
- ⑪ Remote Repo → Collaborative Repository which shared with all members of team

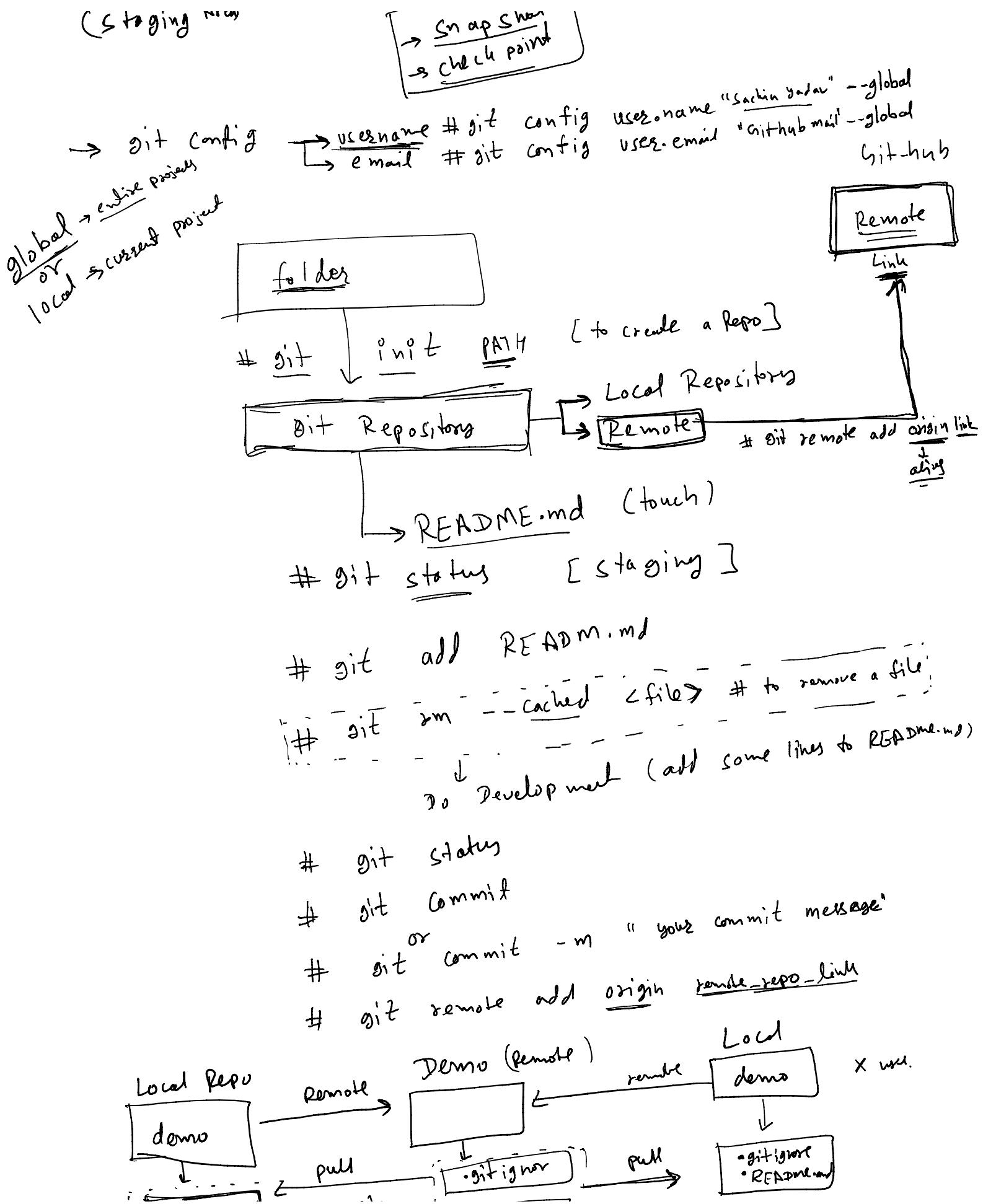
- ⑫ Local Repo → our personal copy of Remote Repositories

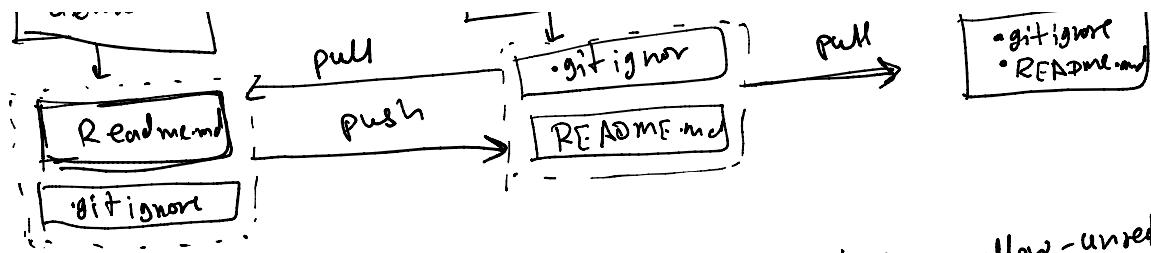
- ⑬ Reset → to undo recent your changes

- ⑭ Checkout → to create a new branch

- ⑮ Status → to check current state of development  
(Staging Area)







# git pull origin master

# git status

# git push origin master

# git diff fname

# git add .

# git commit -m "message"

# git pull origin master

# git push origin master