

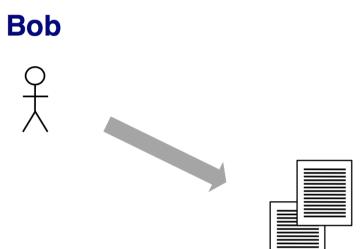


git + Github

a better workflow

Megha Aggarwal http://github.com/codeblooded

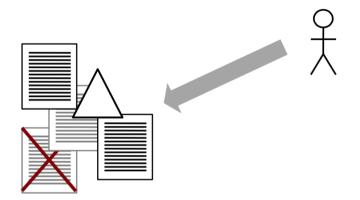
Why git?

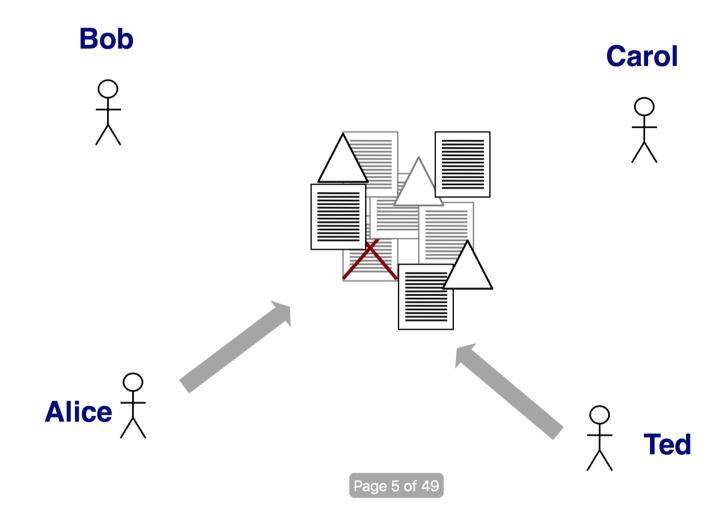


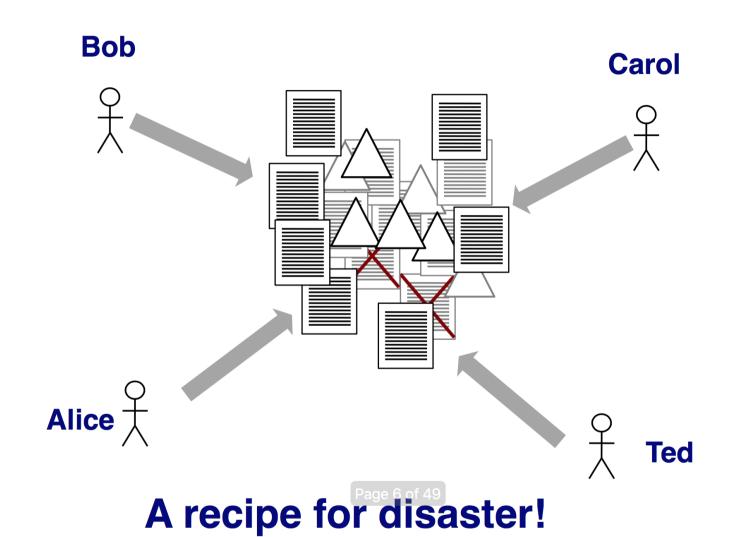
Bob



Carol

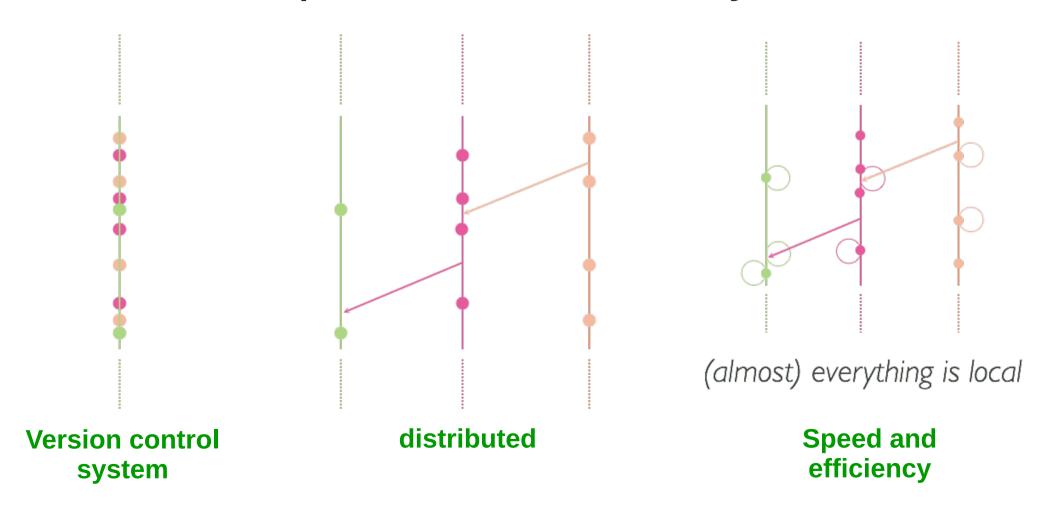






What is git?

Git is an open source, distributed version control system designed for speed and efficiency



Installing Git

https://git-scm.com/book/en/v2/Getting-Started-Installing-Git

Github

https://github.com

Setup

- \$ git config --global user.name "<YOUR_NAME>"
- \$ git config --global user.email "<YOUR_EMAIL>"

Hands-on

My first repo

Over github

Over local machine

- Make a project by simply creating a folder or choose an existing one
- Initialize git repository
 \$ git init
- Lets check status of our repo \$ git status

- Lets add some files
 - \$ git add <file_name>
 - Note: to add all files use: \$ git add.
- Commit all the changes
 - \$ git commit -m <commit_message>
- Add origin of your local repo or we can say setup remote of local repo
 - \$ git remote add origin <remote_url>
- Push changes (commit) to github
 - \$ git push -u origin master

Working on already present repo

Cloning a repo

- Go to github and get url of repo you want
- Clone the repo in your machine

```
$ git clone <url_of_repo>
```

First time pushing command

\$ git push -u origin master

Making changes to repo

If you have access to make changes

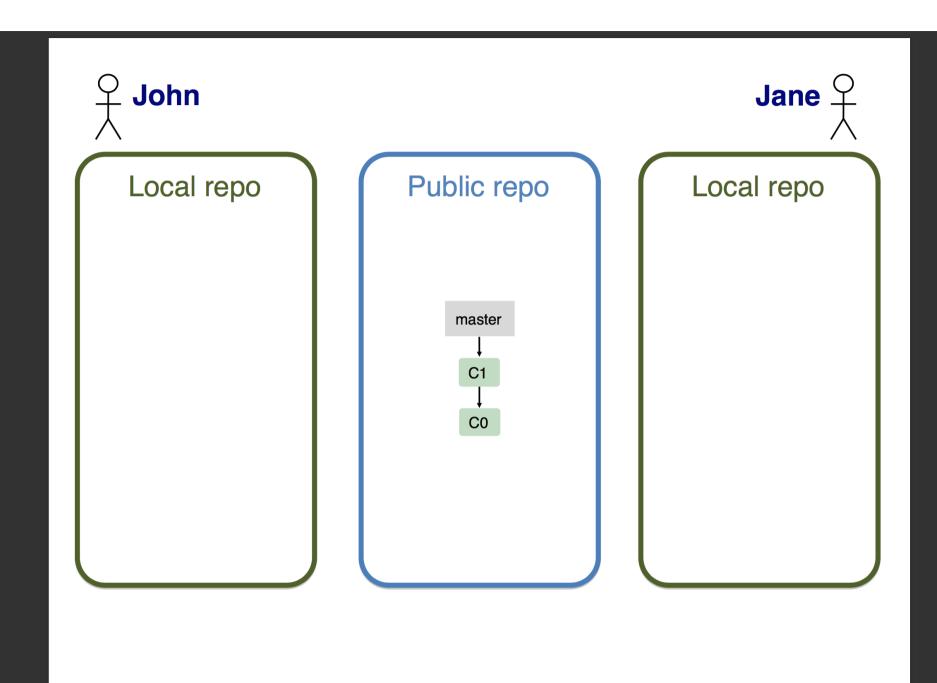
- Make changes in your project
- Stash those changes
 - \$ git stash
- Pull changes from remote repo or say, synchronize your local repo with remote repo
 - \$ git pull origin master
- Get your changes back from remote repo
 - \$ git stash pop

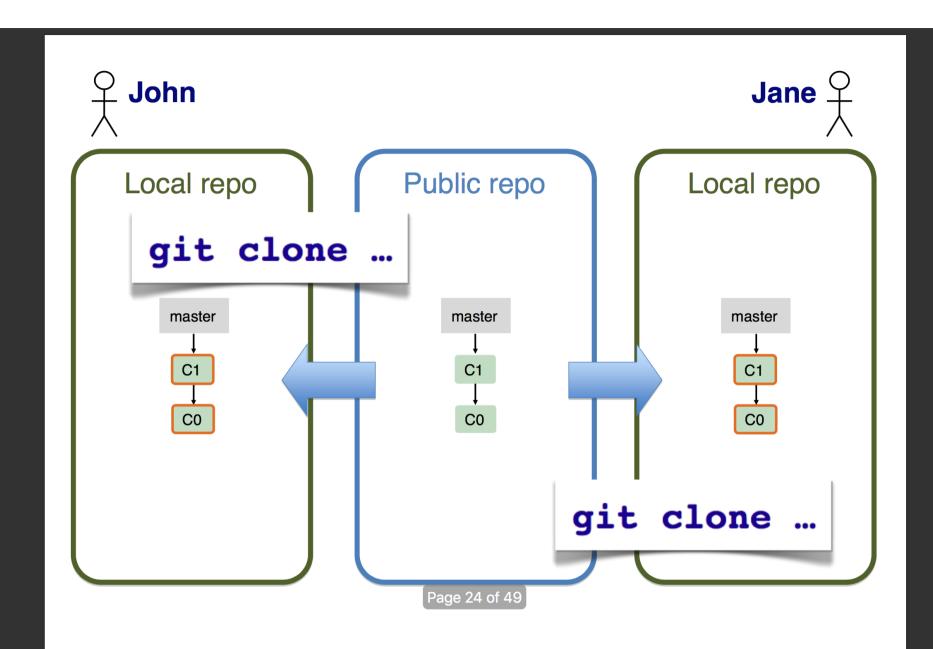
- Add your changes\$ git add .
- Make a commit of your changes
 \$ git commit -m <commit_message>
- Push your changes to the remote repo
 \$ git push origin master

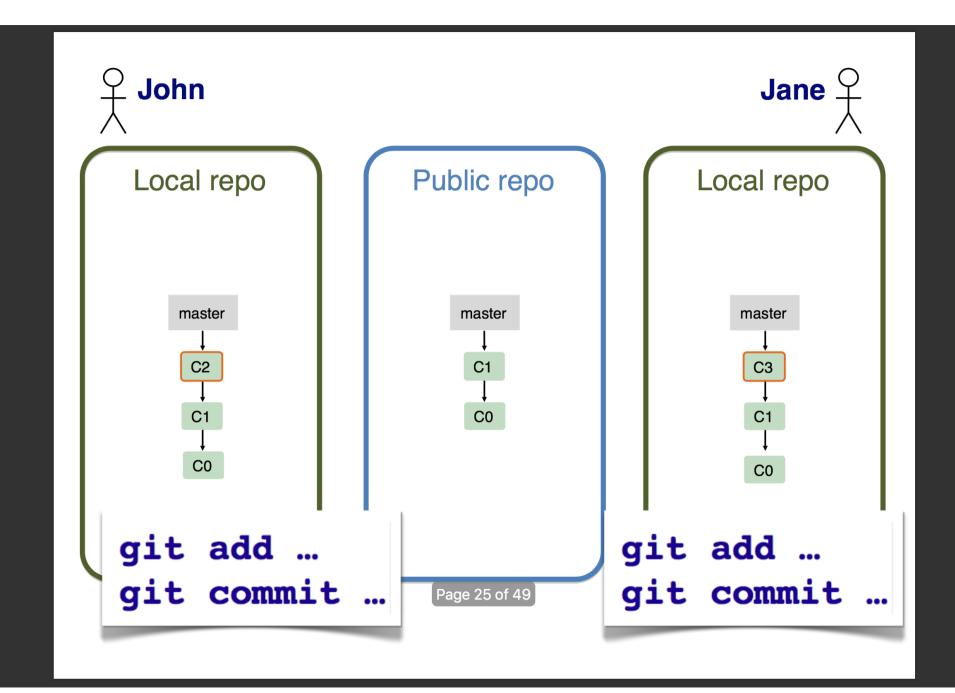
If you don't have access

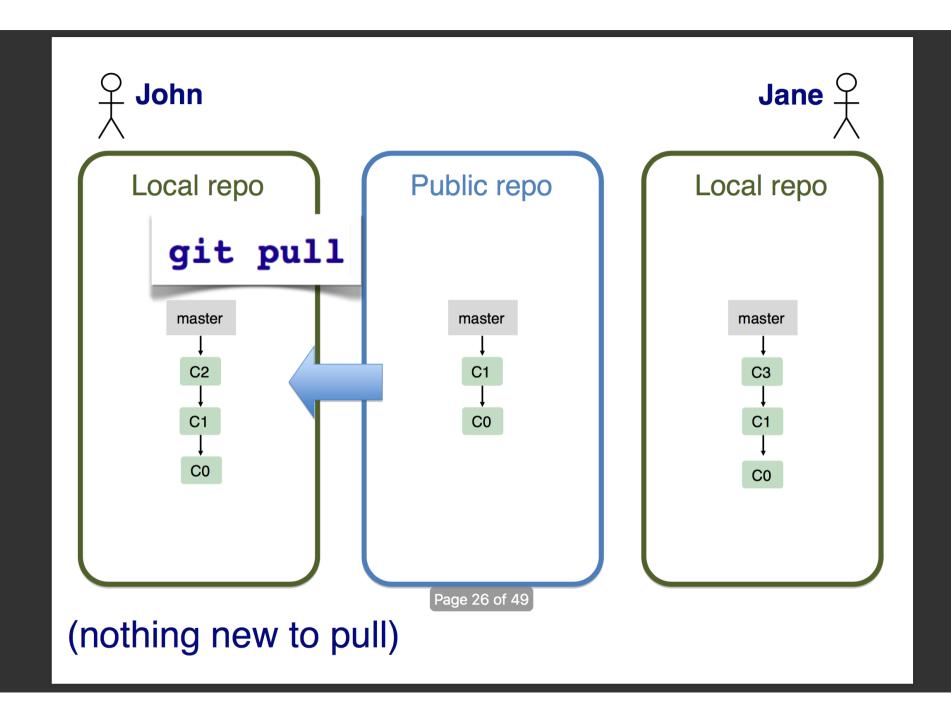
• Make a pull request. Read about it online.

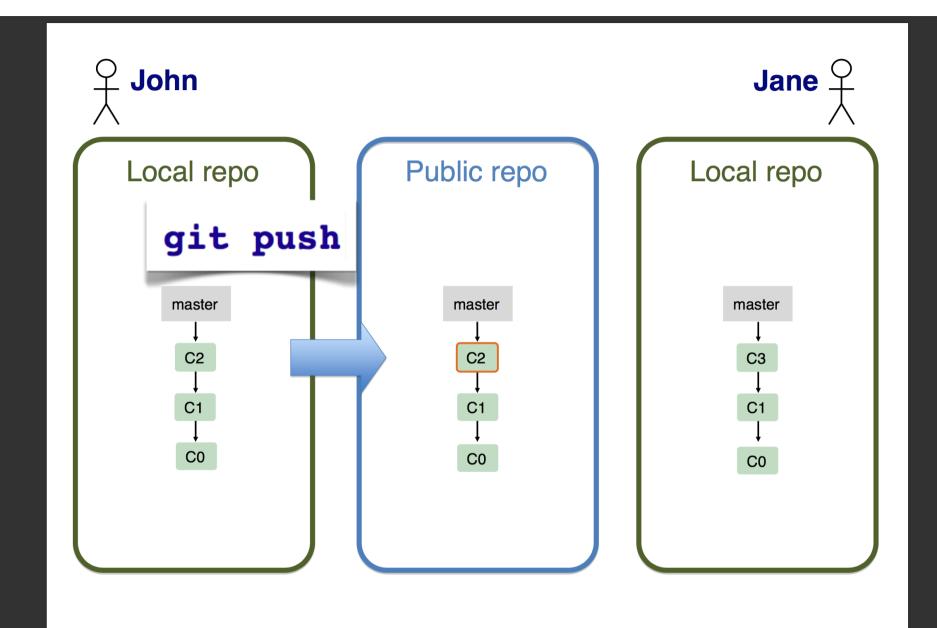
Collaborating

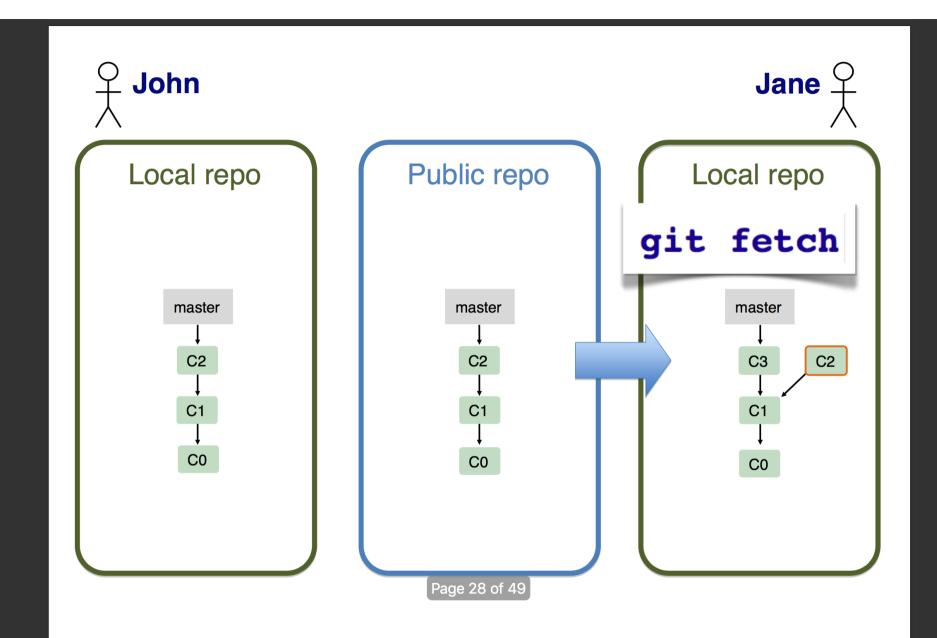


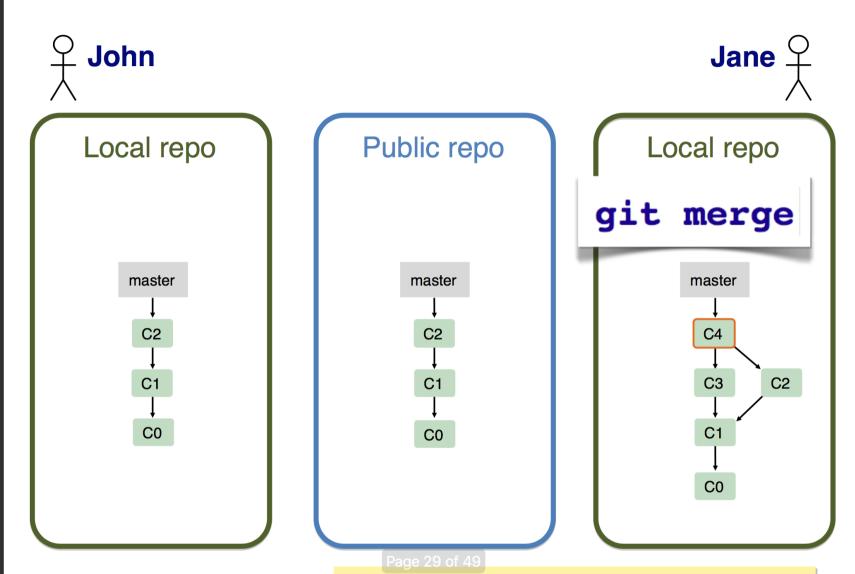




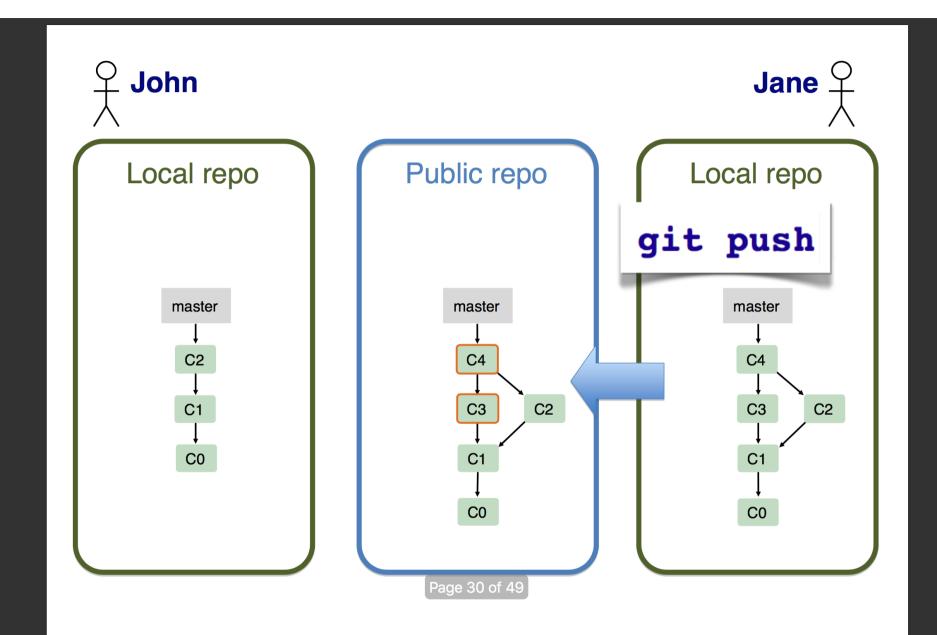


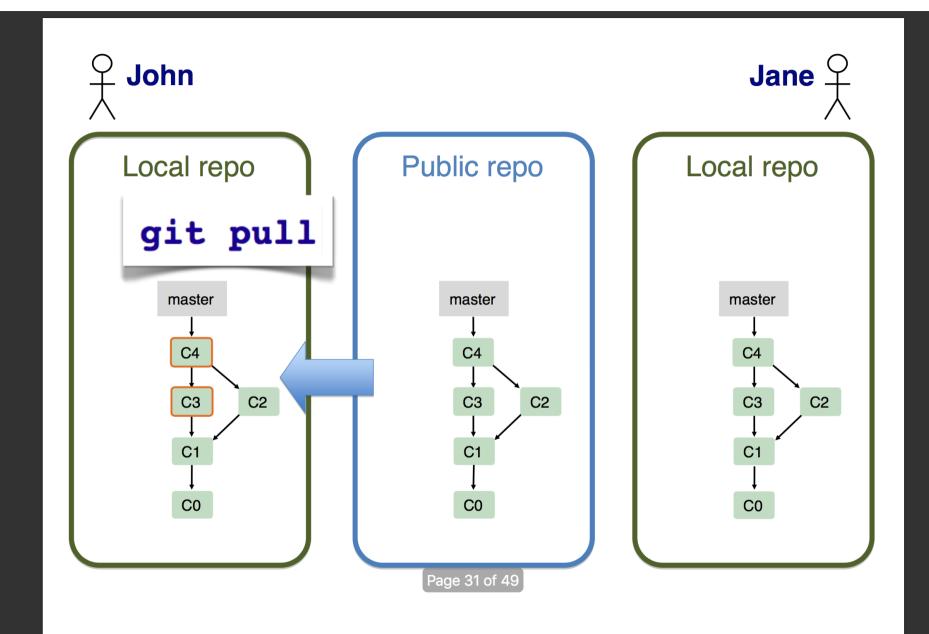






NB: git pull = fetch + merge





Branching

- git branch <branch-name> #create a branch
- git checkout <branch-name> #shift to that branch
- git checkout -b
branch-name> #create a branch and shift to it
- git push origin

branch-name> #to push branch changes on git
- git fetch origin #receive a reference to branch on the server but not getting all the files
- git checkout -b
branch-name> origin/
branch-name> #to get the whole entire branch
- git branch #see all your branches
- git branch --merged #see all merged branches
- git branch --no-merged #see unmerged branches

- git branch -v #see all branches and last commit
- git merge <branch-name> #to merge the branch to master branch
- git branch -d <branch-name> #to delete a merged branch
- git branch -D <branch-name> #to delete a unmerged branch
- git push origin :
branch-name> #to delete the branch from github
- gít branch -m <new-branch-name> #to change name of the branch
- git mergetool #default merge tool of git to resolve merge conflicts
- git rebase <branch-name-to-rebase-with> #rebase current branch with given branch

What next?

Practice makes a man perfect.

Manage your projects through github.

Github- an influential resume.

Github- your way to open-source.

Maintain your github profile and become a DEVELOPER.

Thank you

Contact me:

meghaaggarwal493@gmail.com