Y Club Gamma



Intro to git &

# GitHub



#### **WELCOME**



#### JAY KHATRI

#### **GITHUB CAMPUS EXPERT**

Jay Khatri is pursuing his B.Tech. in Computer Science from CHARUSAT University. He loves to learn, build and share. Building android application is his forte.

He firmly believes that "A journey of a thousand miles begins with a single step and there are miles to go before he sleeps."







#### **GROUND RULES**



Mute your Microphones and Hide your Videos



If you have any doubts, please ask them in Chat section



Please maintain the decorum



Please stay till the end and attend every session for exciting surprises



It is compulsory to fill both pre and post workshop form to be eligible for Certificate



#### #clubgamma @club\_gamma



#### PRE WORKSHOP FORM

bit.ly/e1-pre



#### **RUDRA BARAD**

rudrabarad

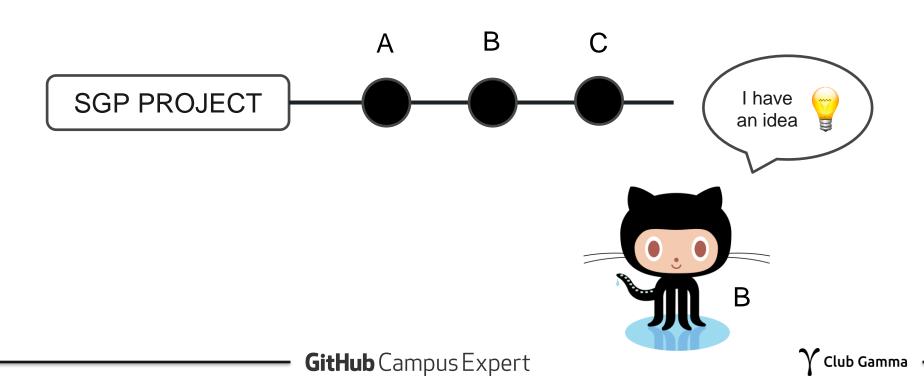
- Version Control System
- Git & GitHub
- · Basics of GitHub
- GitHub Website Tour



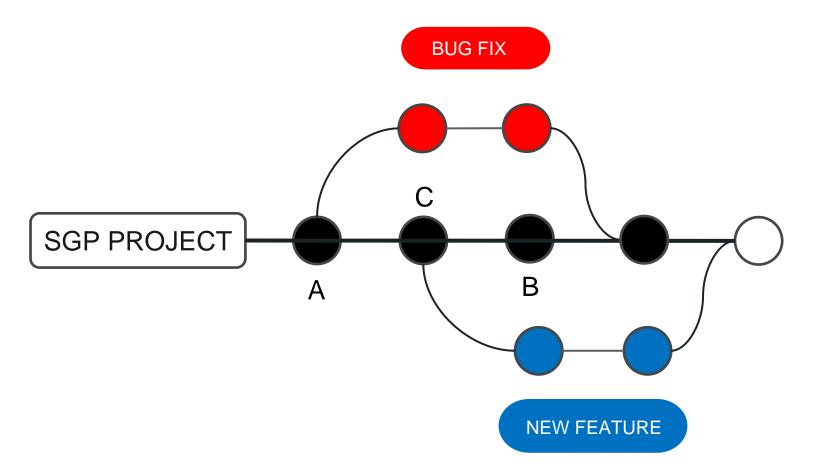
**GIT** 

VCS (Version Control System)

#### WHY IT IS IMPORTANT?







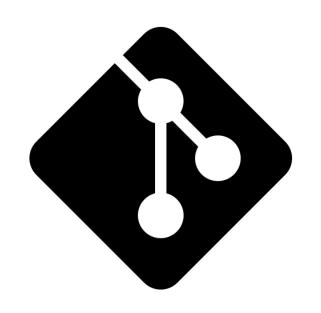
**GitHub** Campus Expert

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#### POLL TIME!













**INSTALLED LOCALLY** 

SOFTWARE

COMMAND-LINE TOOL

TRACK CHANGES LOCALLY





**HOSTED ON WEB** 

**SERVICE** 

GRAPHICAL INTERFACE

**OPEN SOURCE** 





## Let's take a look at **GitHub**



A directory or storage space where your projects can live

**—•**—

#### **COMMIT**

As simple as saving a file after making any changes





Creating a copy of repository







#### **STAR**

Same as Bookmark. Saving it for future









Used to integrate code/files into a branch

## It's not Rocket Science right?

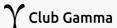






#### **RUDRA BARAD**

rudrabarad



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## **Break time! Any Questions?**

Let's catch up in 5 mins





#### **CHIRAYU JOSHI**

Chirayu-joshi

- README and LICENSE
- Hands on GitHub
- Real world examples
- Git Deep Dive

#### What is README.md?

- Markdown file
- Used for project description
- Includes documentation, technologies used, demo, installation process, etc



#### What is LICENSE?

- · Decides other's control
- Used to Patent your project
- Example: MIT, Apache, GPL, etc



#### **Hands on GitHub**

- Create file
- Commit file
- Edit file
- Checkout versions



## Real world example

- Create issue
- Create pull request
- Merge pull request
- Resolve conflicts



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## **Break time! Any Questions?**

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## Understanding Git architecture using commands



#### Local (Git)

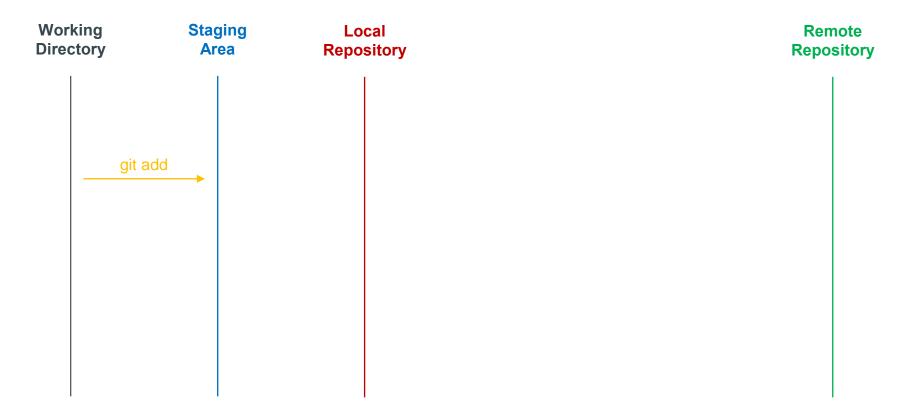
Remote (GitHub)

Working **Staging** Local Remote **Directory** Area Repository Repository

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#### Local (Git)

#### Remote (GitHub)

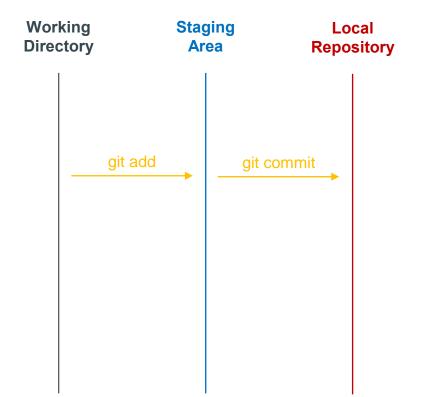


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## git add

- git add <file-name>
- git add.

#### Remote (GitHub)



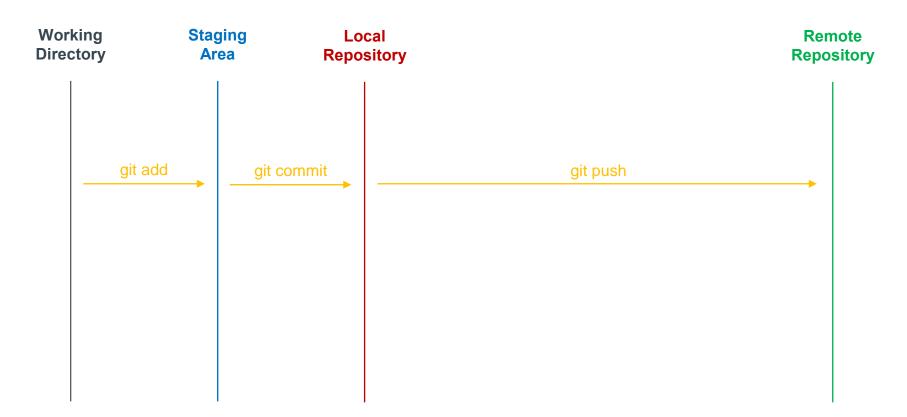
Remote Repository

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### git commit

- git commit -m < commit-message>
- git commit

#### Remote (GitHub)



### git push

• git push <destination> <source-branch>



# IN CASE OF FIRE



Git Commit



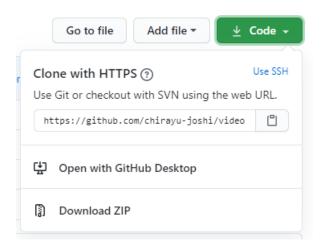
Git Push



Git Out

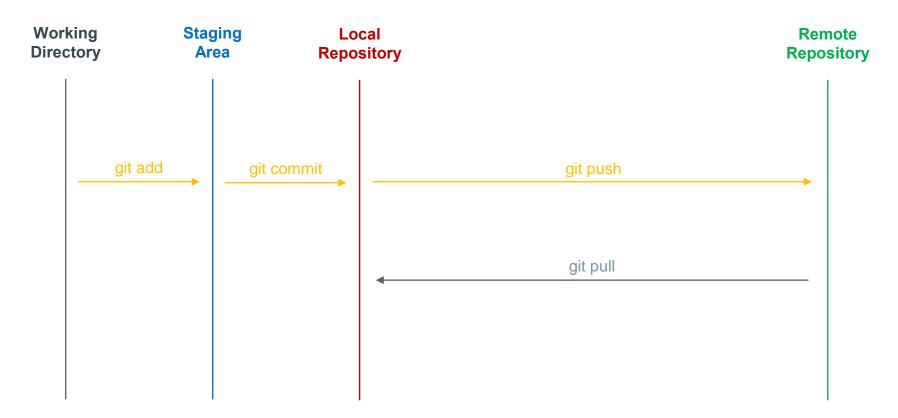
### Performing fork and clone







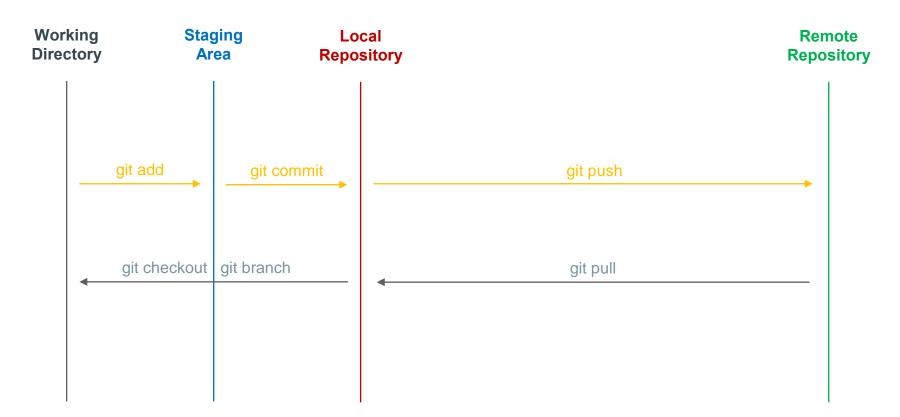
#### Remote (GitHub)

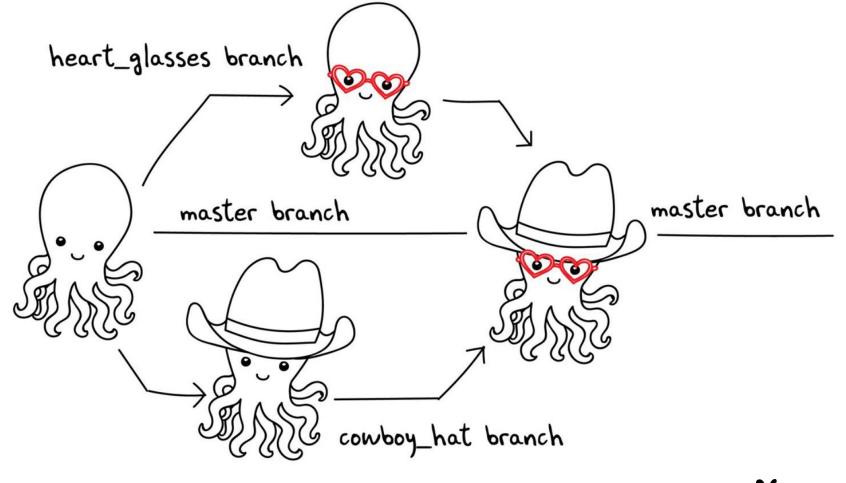


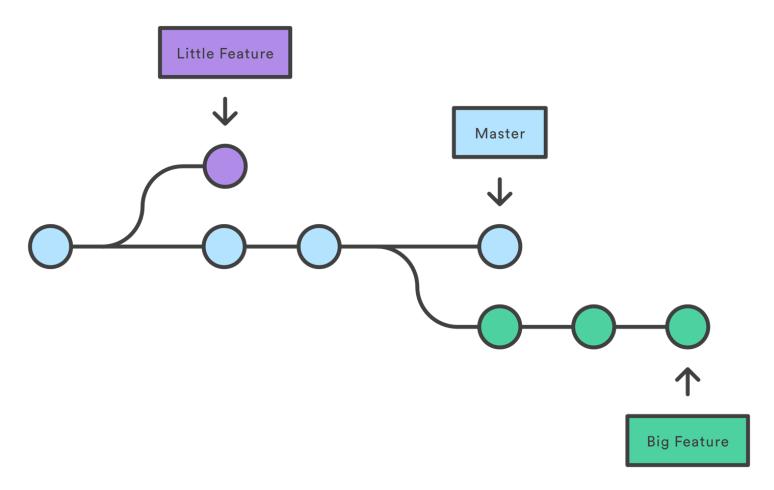
## git pull

• git pull <source>

#### Remote (GitHub)







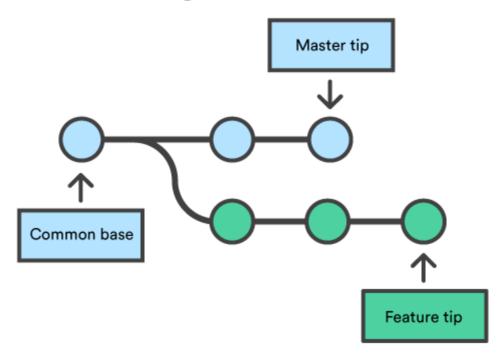
### git branch

- git branch or git branch --list
- git branch < branch-name >
- git branch -d <br/>
  branch-name>
- git branch -D <br/>branch-name>
- git branch -m <br/>branch-name>

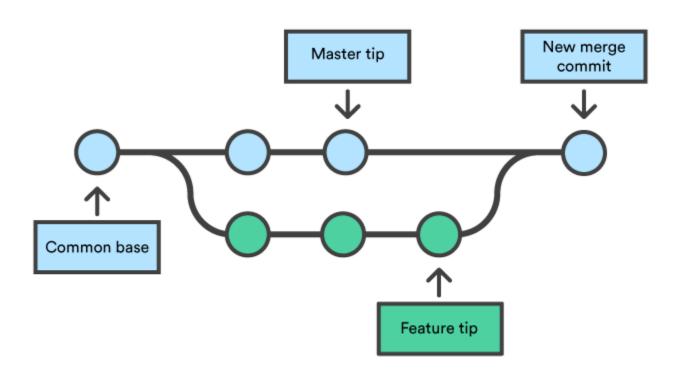
### git checkout

- git checkout <br/>
  branch-name>
- git checkout < commit-hash>
- git checkout -b < new-branch>

### Merge branches



### Merge branches



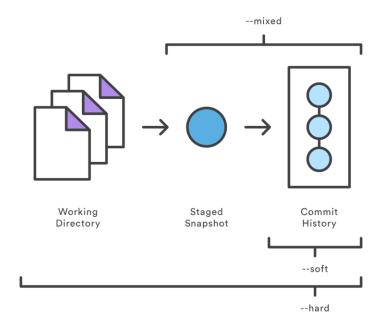
### git merge

- git checkout < final-branch-after-merging >
- git merge <br/>
  branch-to-merge>
- <resolve-conflicts>
- git log —-merge
- git merge --abort

### git reset

The scope of git reset's modes

- git reset <attribute> <commit-hash-name>
- Attributes:
  - --hard
  - --mixed
  - --soft
- Not Recommended







### **CHIRAYU JOSHI**

Chirayu-joshi

That's it from my side!



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