

# Agenda:

- classroom {Slack -> Priyanshu Choudhary Sir}

- I didn't have the access of classroom . Attaching my mail id below.

**<Mail\_ID>** → Invite Link

Today's Agenda :

- Command Line [Revision] {15mins} ✓

- Git Commands

- Git config.....

- git init

- git status

- git add <file\_name> or git add .

- Staging Vs Unstaging

- git commit or commit -m {flag}

- local repository Vs Remote Repository

- Github [Upload] -> Push

- Hosting [Deployment]

- Git Challenge -> {Committing Basics Exercise}

## Git Command :

`git --version` -> It will tell me latest version. I am working on.

```
@Krishna-Geekster ~ /workspaces/CommandLine (main) $ git --version
git version 2.43.0
```

## Configuration Git ?

-Your name

- Your Email

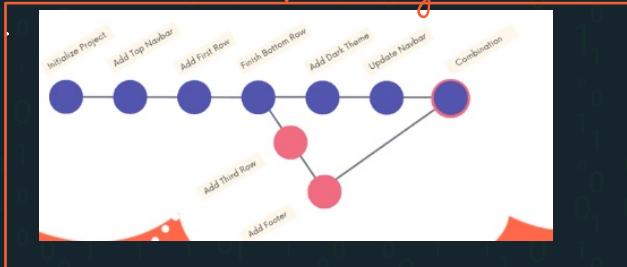
Syntax :{Name} `git config --global user.name "Krishna Madan"`

{Email} `git config --global user.email "krishna@geekster.in"`

Github

```
@Krishna-Geekster ~ /workspaces/CommandLine (main) $ git config --global user.name "Krishna Madan"
@Krishna-Geekster ~ /workspaces/CommandLine (main) $ git config --global user.email "krishna@geekster.in"
@Krishna-Geekster ~ /workspaces/CommandLine (main) +
```

Repository

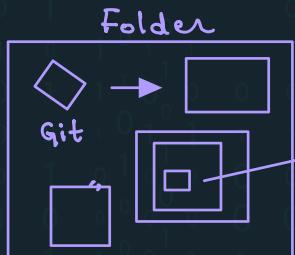


git init

Folder



Git init -> It tracks my directories and all nested sub-directories



Git Status : This first time before git init

Sahana S to Everyone 8:45 PM

fatal: not a git repository (or any of  
the parent directories): .git

Git Init

```
@Krishna-Geekster ~ /workspaces/Git_Learning/Github (main) $ git init
Initialized empty Git repository in /workspaces/Git_Learning/Github/.git/
```

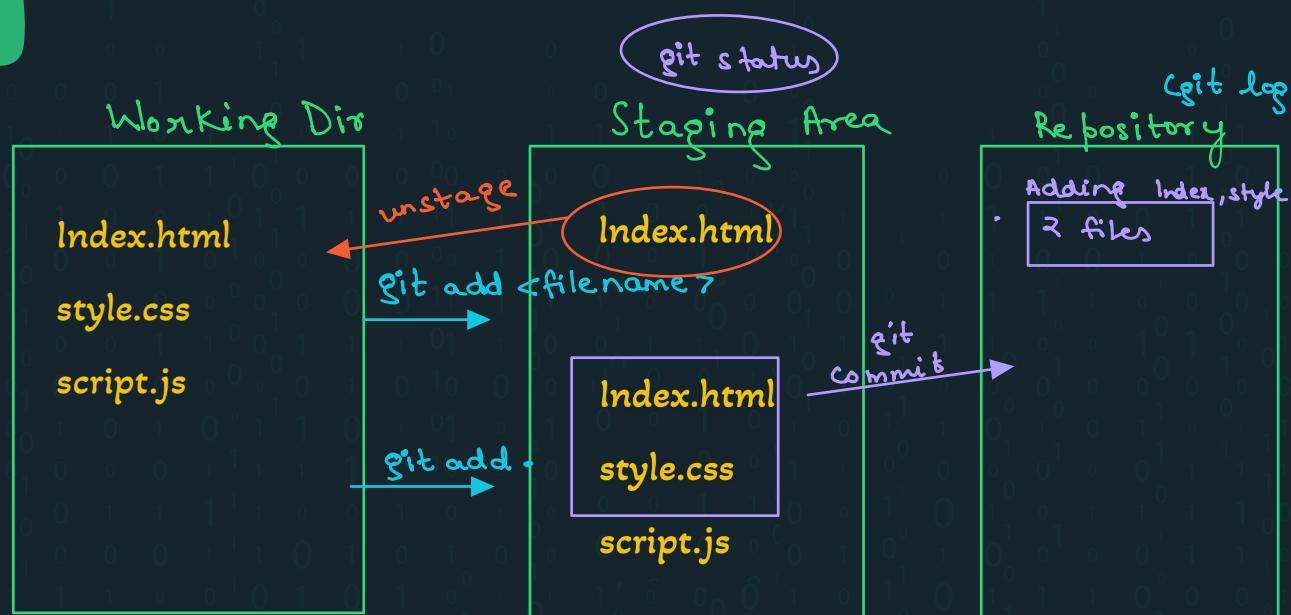
git add

Working Directory

Staging Area

git commit

Repository



```

@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music % git add Arjit_song.txt → staging
● @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git add Arjit_song.txt
● @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   Arjit_song.txt ←

```

To UnStage the file

```
@Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git rm --cached Arjit_song.txt
rm 'Music/Arjit_song.txt'
```

Staging -> Repository ?

-o Commit : {CheckPoints}

2 Ways of committing :

-> `git commit` -> Pop Up <Message Convey>

**Git Commit Message Editor:**

```
◇ COMMIT_EDITMSG X
Github > git > ◇ COMMIT_EDITMSG
1
2 # Please enter the commit message for your changes. Lines starting
3 # with '#' will be ignored, and an empty message aborts the commit.
4 #
5 # On branch main
6 #
7 # Initial commit
8 #
9 # Changes to be committed:
10 #   new file: Arjit_song.txt
11 #
12
```

**Output:**

```
You are screen sharing. Stop Share [PROBLEMS] [OUTPUT]
```

Untracked files:  
 (use "git add -A<file>..." to include in what will be committed)  
 ./.  
 nothing added to commit but untracked files present (use "git add" to track)

```
● @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git add .
● @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git status
On branch main
No commits yet
```

Changes to be committed:  
 (use "git rm --cached <file>..." to unstage)
 new file: Arjit\_song.txt

```
● @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git commit
hint: Waiting for your editor to close the file... []
```

**git commit command:**

```
-> git commit -m "<msg>"
```

**Git Commit Output:**

```
On branch main
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)
    modified: Arjit_song.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

```
► @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git add Arjit_song.txt
► @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified: Arjit_song.txt
```

```
► @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git commit -m "Adding 2 more songs in Arjit_song.txt"
[main bac0c10] Adding 2 more songs in Arjit_song.txt
  1 file changed, 4 insertions(+)
```

```
► @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $
```

**Git Log:**

Git Log -> Providing me all the commit message along with timestamp.

**[checkPoint]**

```
@Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $ git log
commit bac0c10ae86288af4604ea5b1bf25dfa3330cab (HEAD → main)
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date: Tue Dec 19 15:44:27 2023 +0000
```

Adding 2 more songs in Arjit\_song.txt

```
commit cd6de2b5dc0f8dadcd52e49aa656326a7411840
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date: Tue Dec 19 15:41:10 2023 +0000
```

Committing Arjit Singh 10 songs

```
@Krishna-Geekster → /workspaces/Git_Learning/Github/Music (main) $
```

# WARNING

## DO NOT INIT A REPO INSIDE OF A REPO!

Before running `git init`, use `git status` to verify that you are not currently inside of a repo.

Repeating the concept with file `song.txt`

```
Jun 09 2023 - 11:59 AM (GMT+05:30)
@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music (bac0c10) $ git status
HEAD detached at bac0c10
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    songs.txt

nothing added to commit but untracked files present (use "git add" to track)
@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music (bac0c10) $
```

**git status**

```
Nothing added to commit but untracked files present (use "git add" to track)
@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music (bac0c10) $ git add songs.txt
@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music (bac0c10) $ git status
HEAD detached at bac0c10
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   songs.txt

@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music (bac0c10) $ git commit -m "Adding new file name songs.txt"
[detached HEAD 7c25305] Adding new file name songs.txt
 1 file changed, 7 insertions(+)
 create mode 100644 Music/songs.txt
@Krishna-Geekster ~ /workspaces/Git_Learning/Github/Music (7c25305) $ git log
commit 7c25305f65538dd2b71cd3e082cc8ea2c691bac3 (HEAD)
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date:   Tue Dec 19 15:56:18 2023 +0000

  Adding new file name songs.txt

commit bac0c10ae86288af4604ea5b1bf25dfa3330cabe (main)
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date:   Tue Dec 19 15:44:27 2023 +0000

  Adding 2 more songs in Arjit_song.txt

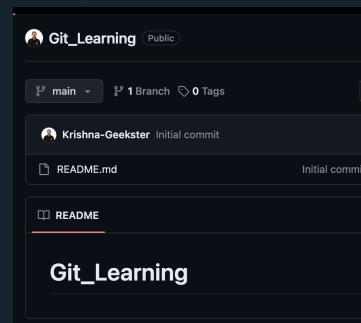
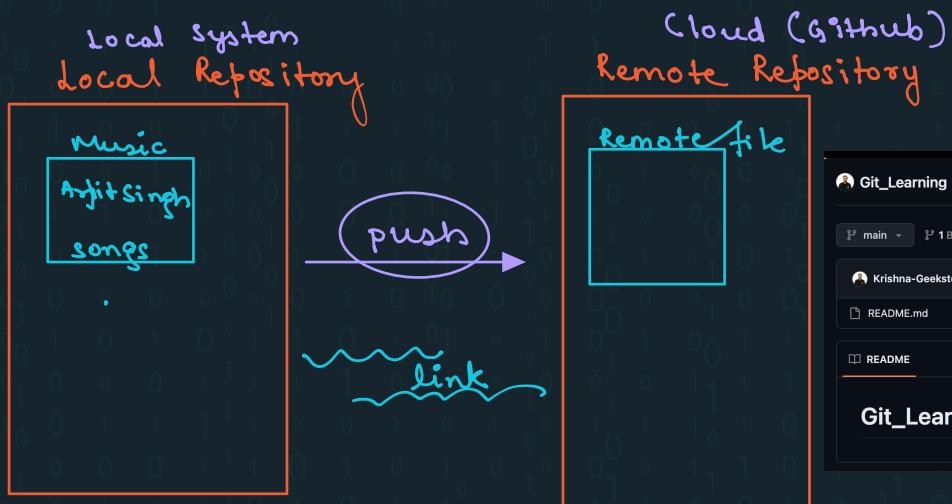
commit cd6de2b5dc0f8dadcd52e49aa656326a7411840
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date:   Tue Dec 19 15:41:10 2023 +0000

  Committing Arjit Singh 10 songs
  ...skipping...
commit 7c25305f65538dd2b71cd3e082cc8ea2c691bac3 (HEAD)
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date:   Tue Dec 19 15:56:18 2023 +0000

  Adding new file name songs.txt

commit bac0c10ae86288af4604ea5b1bf25dfa3330cabe (main)
Author: Krishna <122261087+Krishna-Geekster@users.noreply.github.com>
Date:   Tue Dec 19 15:44:27 2023 +0000
```

## Moving my file from local Repository to Remote Repository



### Viewing Remotes :

```
git remote -v
```

```
git remote -v
```

### How we can Add a new Remote ?

- Linking Local Repo to Cloud Repo

Syntax : `git remote add <name>[origin] <url>`

```
~  
~  
• @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (7c25305) $ git remote -v  
• @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (7c25305) $ git remote add origin https://github.com/Krishna-Geekster/Git_Learning.git  
• @Krishna-Geekster → /workspaces/Git_Learning/Github/Music (7c25305) $ git remote -v  
origin https://github.com/Krishna-Geekster/Git_Learning.git (fetch)  
origin https://github.com/Krishna-Geekster/Git_Learning.git (push)
```

referring

### Git Push :

1. 1st time push - to the github repo -> `-u flag {upstream}`

Syntax : `git push -u origin main`

-- force

2. After 1st attempt , you need to write :

Syntax : `git push origin main.`

Git Challenge Exercise : <https://geekster-in.notion.site/Committing-Basics-Exercise-8d47b38d6e3a41059b832313033c24e4>