Git Introduction

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Git Introduction

Git was arested in 2005 by Linus Toxvolds. (Creator of Linux Kornel).

Why git

Git is a force and open source distributed vorsion control system dosigned to handle everything forom Small to very large projects with speed and

efficiency. # Git stones snapshots of own Project (Not difference)

- · Analyse the code changes. · Collaboration.
- · Stooling Vorslons.

Git Features.

- · Secure / Integrity. · D'istaibuted
- · Speed. · Almost everything is locally.
- Non-linear/Branching.

```
1 # to check the git version
2 git --version
3
4
5 #configuration of global variables
6 git configuration of global user.name "
7 git config --global user.email "
""
```

Types of Git Commands.

It Creating Repository: git init.

Making Changes.: git add, git status, git commit. # Parallel development: Branching: git branch, git Menge...

Syncing Repository: Osigin, sumote, Push, Pull, Fetch.

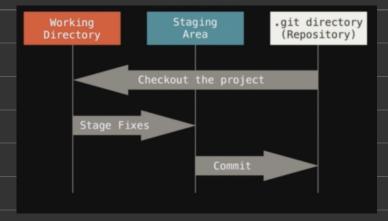
3 Stage Asichitecture of git

There are 2 diff. stages of a git on git Braject

i) Modified

ii) Staged

iii) Committed.



Initialising a git Repository. Greating a git Repository Clore a memote Initialise your own local git supo. siepositosy. Let's create a git repo git init * git init. This will create a hidden git bolden. That's where git stores everything. # IF the git software is able to find git folder it as inside a suppositiony, than only it will consider it as # To initialise any project as a git suppo, first step is to do (git init)

Tracking Files.
Untracked File is the about which git downt know.
We Need to add this File to staging area, then only git will treat this as tracked File.
To track File & Folders.

git status

Each File in own working directory can be in one of two states.

tracked on intracked.

Tracked files are files that git knows about. # Any file in own working directory that was ht in own Staging area is Untracked file.

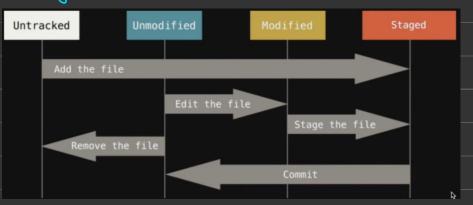
Tracking New Ales

```
1 # for one specific file
2 git add <filename>
3
```

Stages the latest version of the file.

^{5 #} for all files & folders 6 git add .

Lifecycle of the status of a file.



Committing Changes.

Moving Files From Staged onea to the git folder is called a commit.

Making commits, creates vorsion/snapshots of your Paraject.

git commit -m "your commit message"

Viewing the Commit History (logging the previous connits) # We can see all the commits/versions of our git Peroject:

git log —oneline

Deleting a git Project

rm -rf .git