**GIT [global information tracker]**

**About:**

**Tech stack:**

Version Control [system/software/engine]:

**Version Control System** – VCS: It tracks the changes in a file or a set of files over a period.

Source code management - SCM

**WHY:**

* Reverts the changes to any specific state
* To easily deploy and test specific versions in different environments

**Terms:**

Repository [repo]:

* A set of files, directories, historical records, commits and heads
* A git repo contains all the configurations, logs and branches with Head and more..
* All the above elements are inside .git folder.

Working tree: component of repo

* All the files and directories in our repo. It also called as working directory.

Index: [component of .git]

* It is a staging area. It is layer, that separates your working tree from the git repo.

Commit:

It is a snapshot of a set of changes(or)manipulations to our working tree.

Branch:

Web🡪master

🡪sibi

clone

merge

Whole source code will be there

🡪thaya

🡪accounts

Tag:

* Like a bookmark, on a specific point in history.

HEAD: [component of .git]

* It points to the current working directory

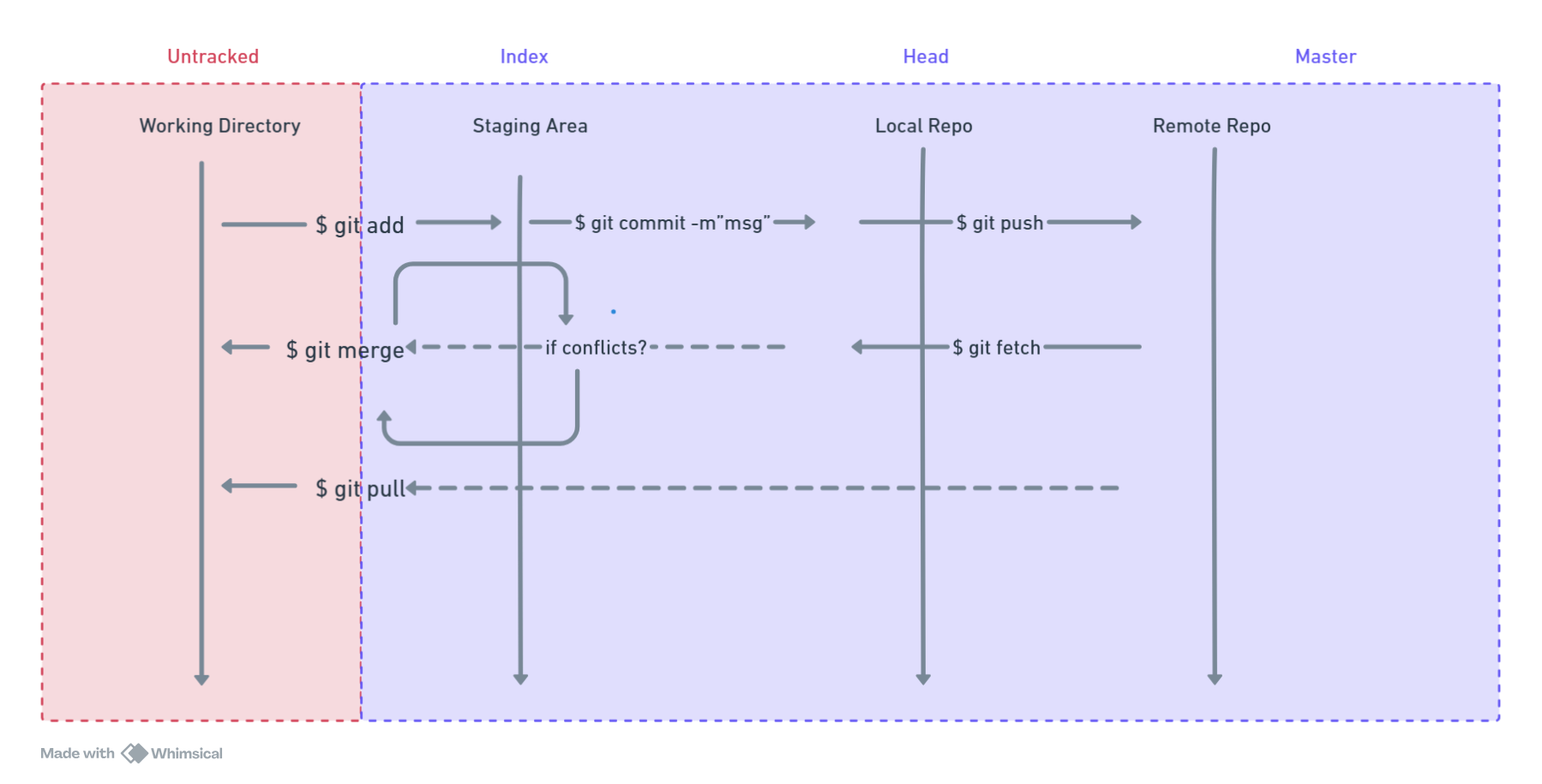
Stages of git:

* Modified
* Staged
* Committed

Workflow:

There are four fundamental elements in git workflow.

Working Directory, staging area, local repo, remote repo



A screenshot of a computer

AI-generated content may be incorrect.

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