



GIT & GITHUB

Tech With Pia

WHAT IS GIT?

Git is a version control system that helps to track changes in code.

Git is a:

- very popular version control system,
- free & open source
- fast to track changes
- good tool to learn for every developer
- collaboration

WHAT IS GITHUB?

Github is a website that helps to store and manage code using Git.

→ <https://github.com/>

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WHAT IS A GIT REPOSITORY

A Git repository is a version control system that tracks changes in files, allowing collaboration and preserving a history of edits. It consists of a collection of files and their complete revision history.

Two Types of repositories:

- Local Repository
- Remote Repository


GIT TERMINOLOGY

LOCAL VS REMOTE REPOSITORY

A local repository is stored on your computer and is used for local development, while a remote repository is hosted on a server and facilitates collaboration by enabling multiple contributors to access and share code e.g. a github or a bitbucket repository.


WHAT IS A GIT BRANCH?

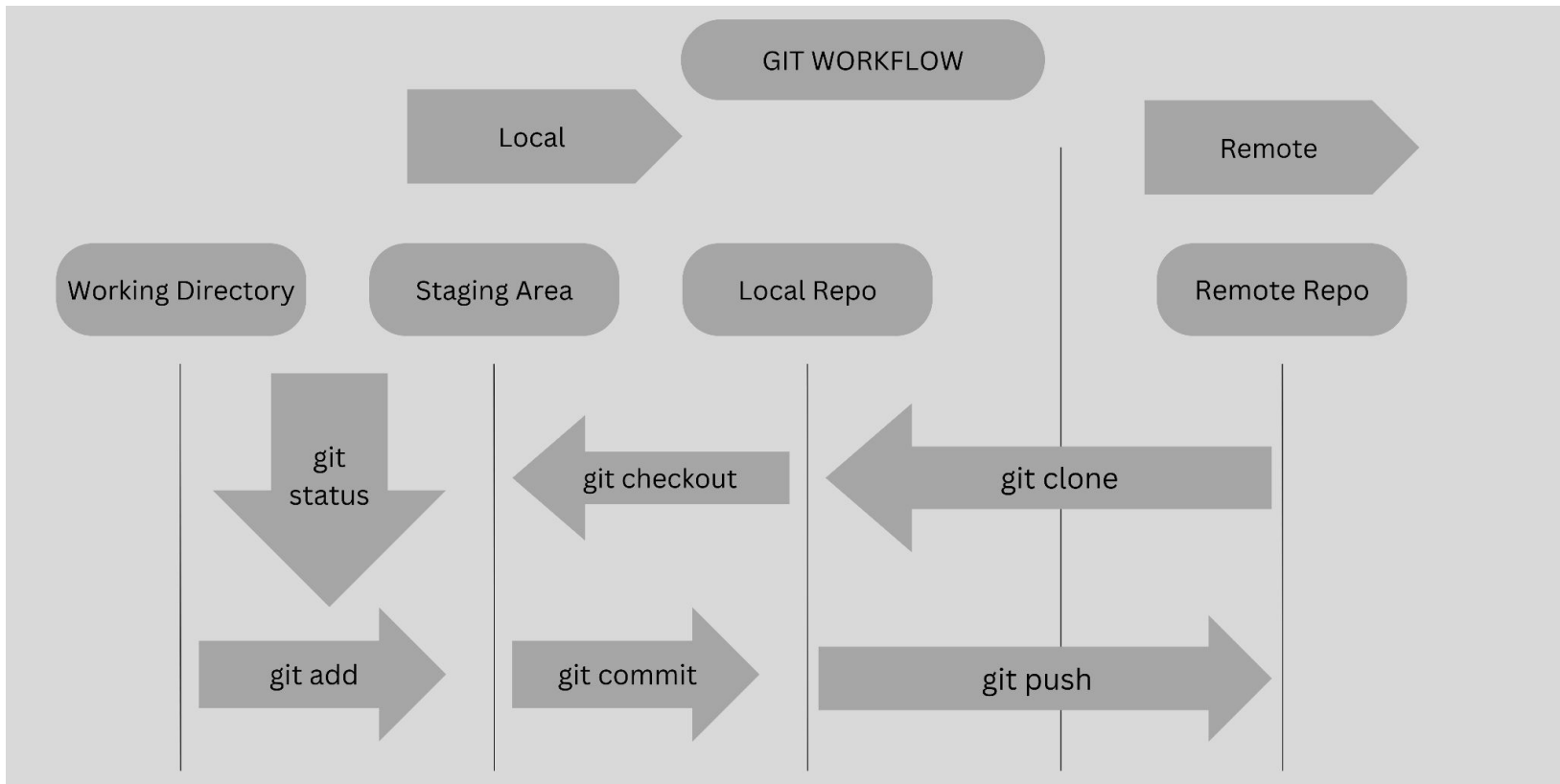
A Git branch is a parallel line of development that allows you to work on features or fixes without affecting the main codebase until you're ready to merge.

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WHAT IS A GIT COMMIT?

Git commit records changes to the repository, creating a snapshot of the current state of files, and providing a way to track and manage the project's revision history. Each commit has a unique identifier and includes a message describing the changes made.

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Git Workflow

How to push your code from local folder to remote github repository.

Git commands to be used:

- Clone
- Status
- Add
- Commit
- push