# What is Version Control:

For Content, teams and Agility.

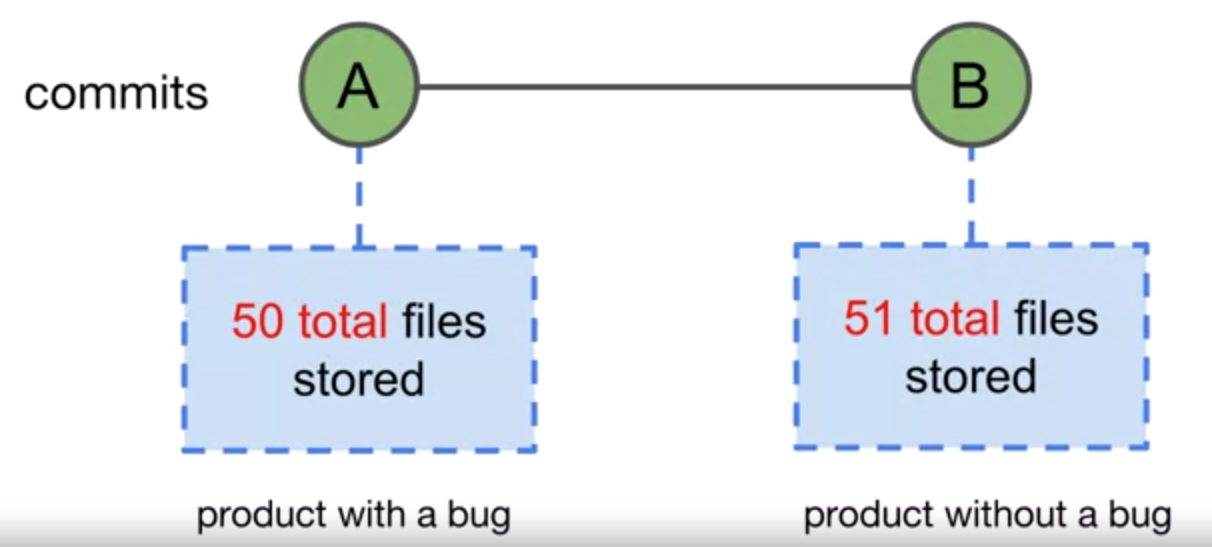


# Git:

Maintains full history of project.

Each commit is a snapshot of entire project.

But done is an efficient way: Each unique file is stored only once



Best Practice: Create a separate branch for every feature/change and then commit to the main branch.

# Basic Git Syntax



## Git Command Example:

git status

## Git Command-- flags Example:

git status –short

## Git command --flags [arguments]

git add file.txt

git add .

# Git Locations

## Working Tree

A single commit’s directory and files

## Staging Area or Index

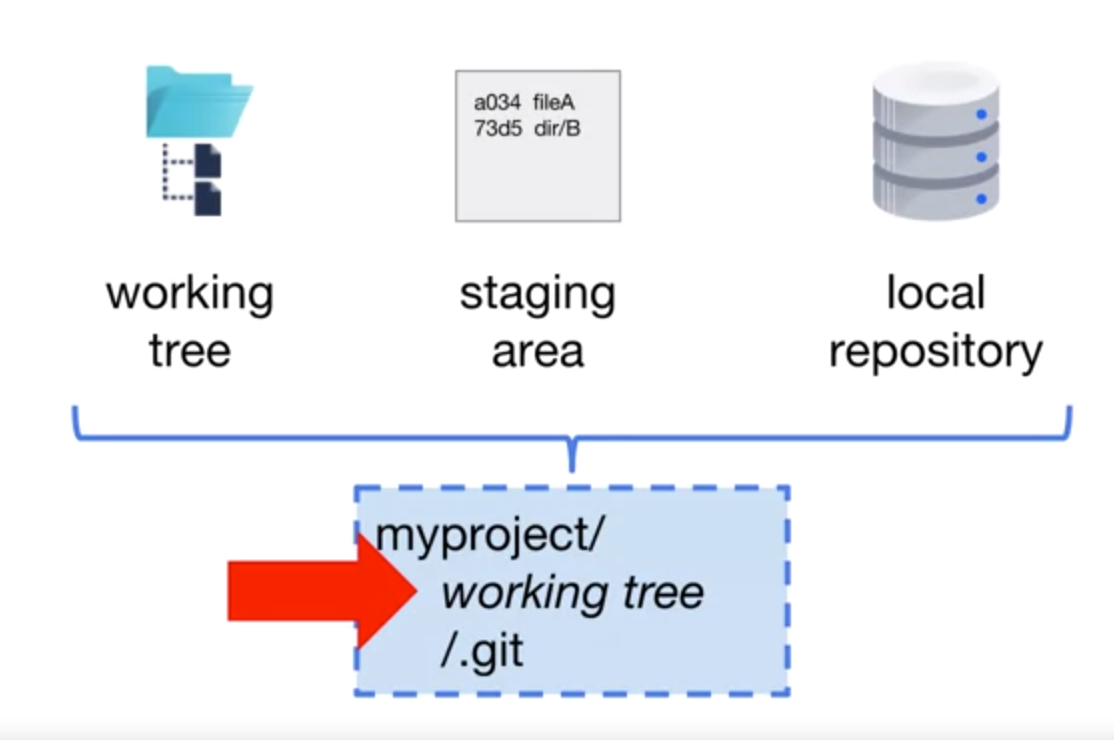
Files that are planned/ready for the next commit. **Add** command is used to achieve this.

## Local Repository

All the commits that have been made for the project. These commits contain the version history of the project. Also contains staging area

## Project Directory

Contains all the project that is being handled. It contains **working tree** (files of single commit of the project – usually latest)and **.git** folder that contain staging area and all the commits of projects i.e. **Local Rep.**



## Remote Repository

All the commits just like Local Rep but kept online/cloud. It is single **source of Truth**.