

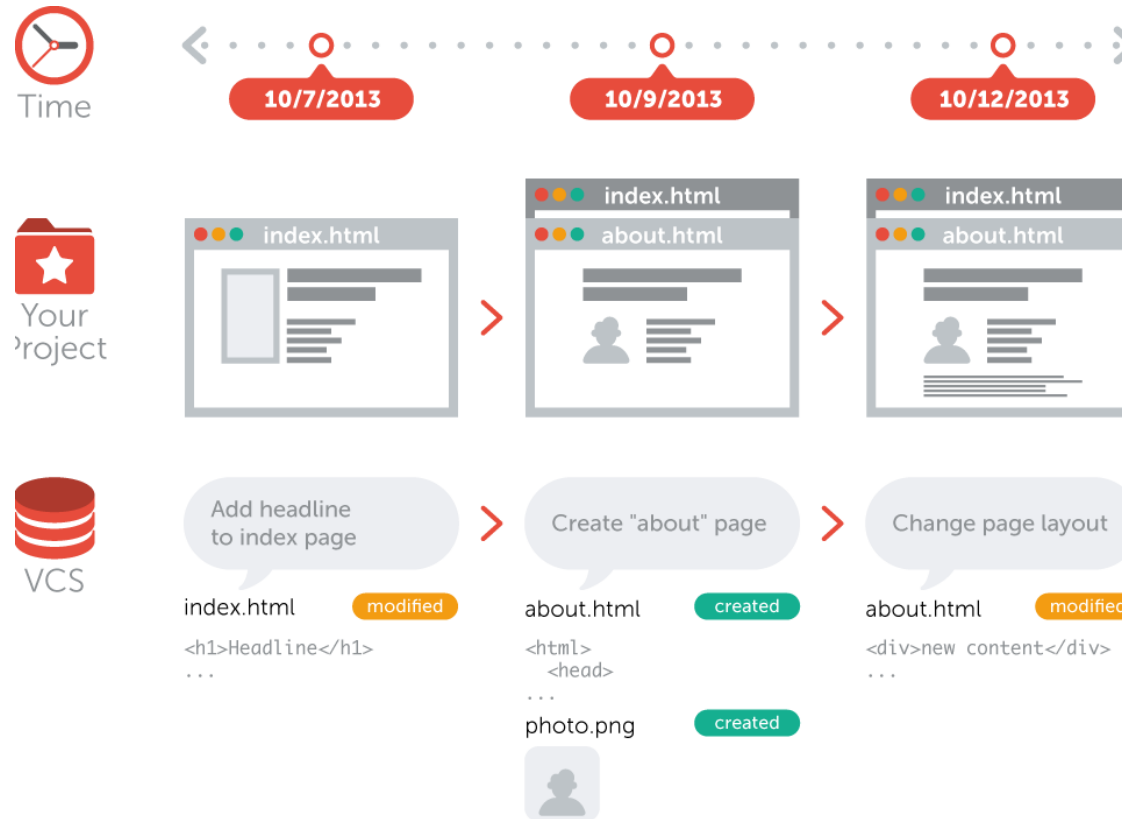
Version Control Systems- GIT

Pre-requisites

- ▶ Github account
- ▶ Git
- ▶ Adding to Cyber Group organisation on Github.

WHAT is VCS?

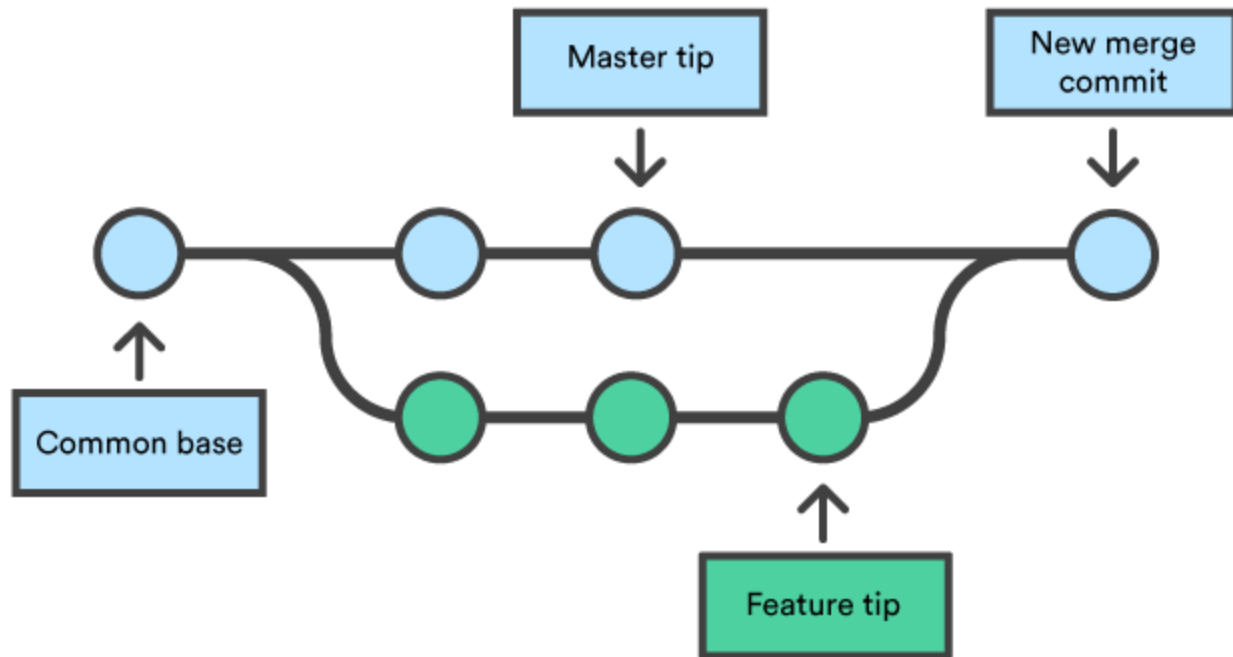
You can think of a version control system (short: "VCS") as a kind of "database". It lets you save a snapshot of your complete project at any time you want. When you later take a look at an older snapshot (let's start calling it "version"), your VCS shows you exactly how it differed from the previous one.



WHY VCS?

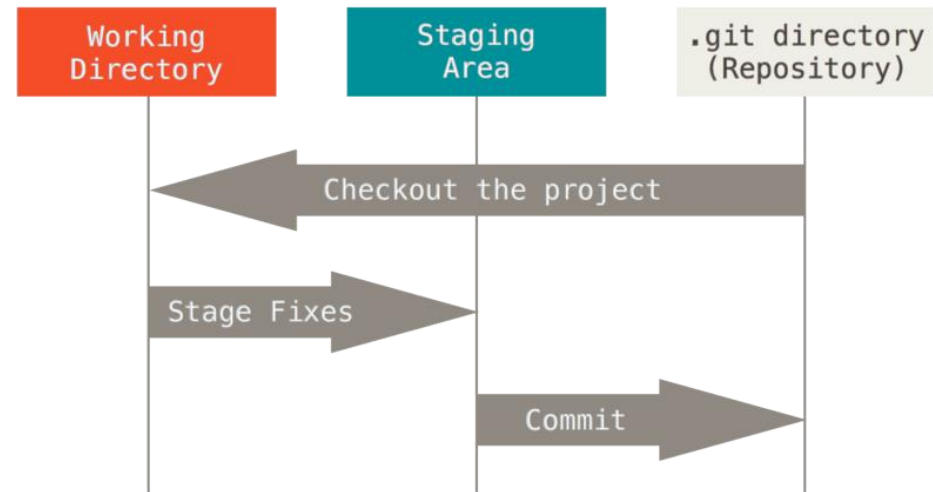
- ▶ Collaboration
- ▶ Storing Versions (Properly)
- ▶ Restoring Previous Versions
- ▶ Understanding What Happened
- ▶ Backup

VCS BRANCHING



Getting INTO Git

- ▶ Init
- ▶ Add remote origin (remote, Github)
- ▶ Add (staging area)
- ▶ Commit
- ▶ Push
- ▶ Pull vs fetch
- ▶ Conflict
- ▶ Log
- ▶ diff
- ▶ Checkout and branch
- ▶ Reset commits (rollbacks)
- ▶ .gitignore



Let's get our hands dirty

- ▶ Initialize a new Git Repo
- ▶ Making new Repo in Github
- ▶ Adding remote URL
- ▶ Checking git log
- ▶ Staging changes
- ▶ Committing changes
- ▶ Pushing changes to remote

Let's get our hands dirtier

- ▶ Cloning Project
- ▶ Forking
- ▶ Raising PR
- ▶ Resolving Conflicts
- ▶ Stash Changes
- ▶ Commit Rollback
- ▶ Pull vs Fetch

[Git Cheat Sheet](#)

Doubts?

- ▶ Any doubts are welcome
- ▶ We understand that raising doubts and resolving them is incremental in nature so feel free to reach out to us.

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