Git and GitHub

Version Control System

Version Control System?

- A tool:
  - Can store file in a remote/central location
  - Can track the history of changes made to that file

What is Git?

- Free and open source
- Distributed version control system
- It is becoming a standard tool for version control

Git VS SVN

- Distributed version control system
- Local copy complete version control repository, entire history of the project
- No Internet connection -> commits, diffs, logs, branches, merges, etc.

- Centralized version control system
- Single version of the repository

Why Git (version control)?

- Versioning a file is very important
- Tracking changes and owner of changes
- Enables team to collaborate and work efficiently

What is GitHub?

- Git repository hosting service
- Collaboration between team members
- Code reviews and maintaining documentation

Flow Diagram

Working Directory

- Untracked Files

Staging

- Not committed

Local Repository

- Modified
- Tracked

Remote Repository

GitHub