

Git, GitHub & Open Source Contribution Crash Course

1. What is a Version Control System?

Version control, also known as source control, is tracking and managing software code changes.

2. Introduction to Git VCS

What is Git?

- Installation of Git CLI
- Basic Git Commands
- Setting up Git Global Configuration(via email)

3. Version Controlling with Git (Basic Commands)

- Start a new project and complete setup with Git & GitHub

4. Introduction to OpenSource

- What is Open Source
- Issues Intro
- Issue Labels
- Submitting a new issue
- Workflow of resolving an issue
- Analyzing a pull request
- Concept of fork and upstream
- Further discussions on pull requests
- Recap of workflow

5. Branching in Git

- Introduction to Branching Concept.
- Creating Branches.
 - o git branch <BRANCH NAME>
 - o git checkout <BR_NAME>
 - git checkout -b "BR_NAME"
- Branch Tags
 - o feat/feat-name
- Practical demonstration of branching
- Creating a new pull request
- Common branching mistake
- "git pull" concept

5. Introduction to vercel

- Basic idea of vercel
- Pipelining with vercel
- Reviewing pull requests
- Automation of Deployment

6. Introduction to Advance Git & GitHub

- Connecting and syncing with upstream
- Code sync problem when multiple contributors working on different issues simultaneously
- Concept of multiple remorts and Upstreaming
- Summery of advance git

7. Git Merge Conflicts

- What is Conflicts
- Practical demonstration of conflicts
- Resolve Conflicts (carefully) Using Upstream

Other topics will be added in the future.