



SWE

Sec 1



Visual Studio Code

Visual Studio Code, or VS Code, is a source-code editor made by Microsoft.

It works with Windows, Linux and macOS.

Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

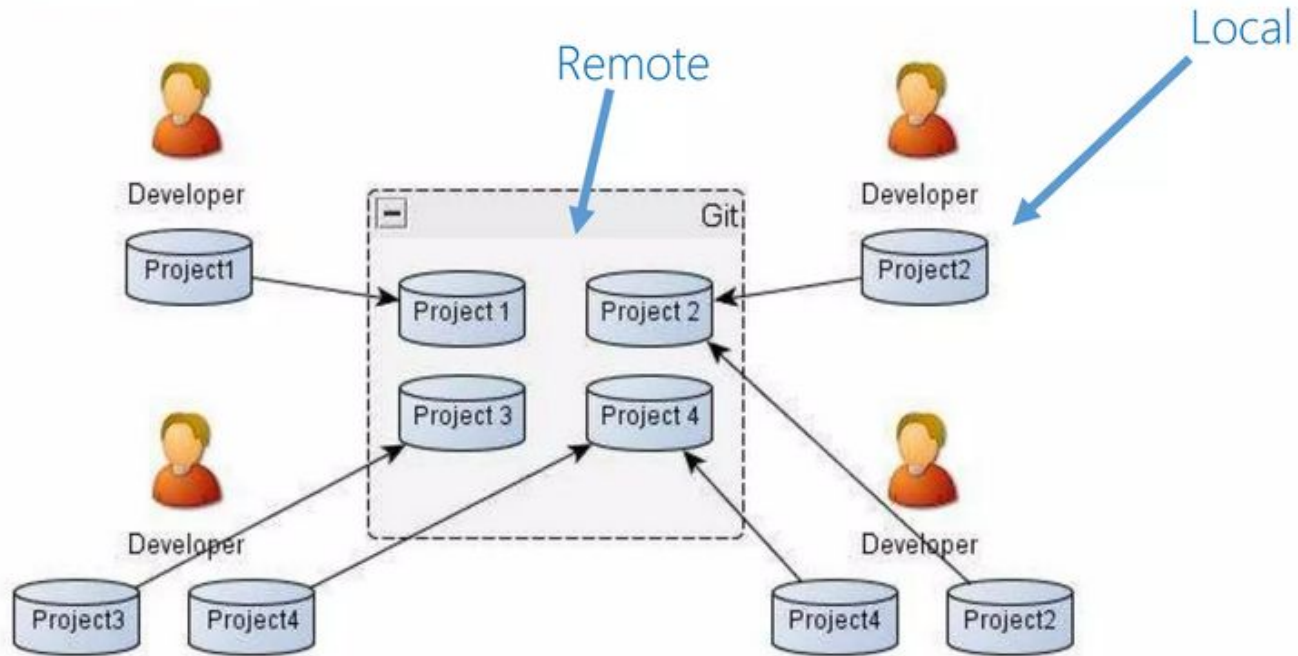


Git

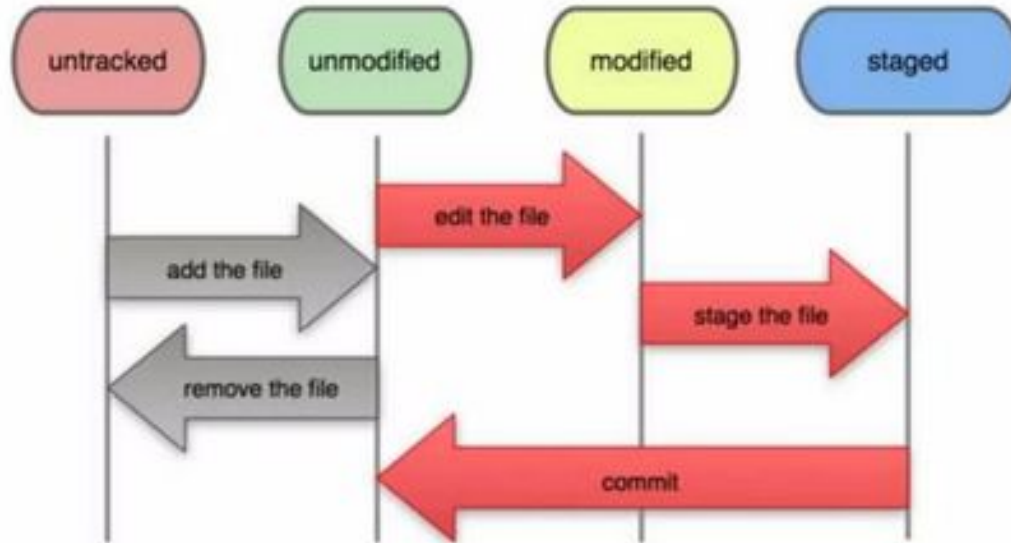
- Attract the new generation of developers to mainframe
 - easy on-board, common skill-set
- Support common practices for end-to-end enterprise application development
 - Mobile to Mainframe
- Offer similar developer experience across all platforms
 - Distributed, Cloud, Mobile, Mainframe
- Leverage popular, proven, collaboration practices



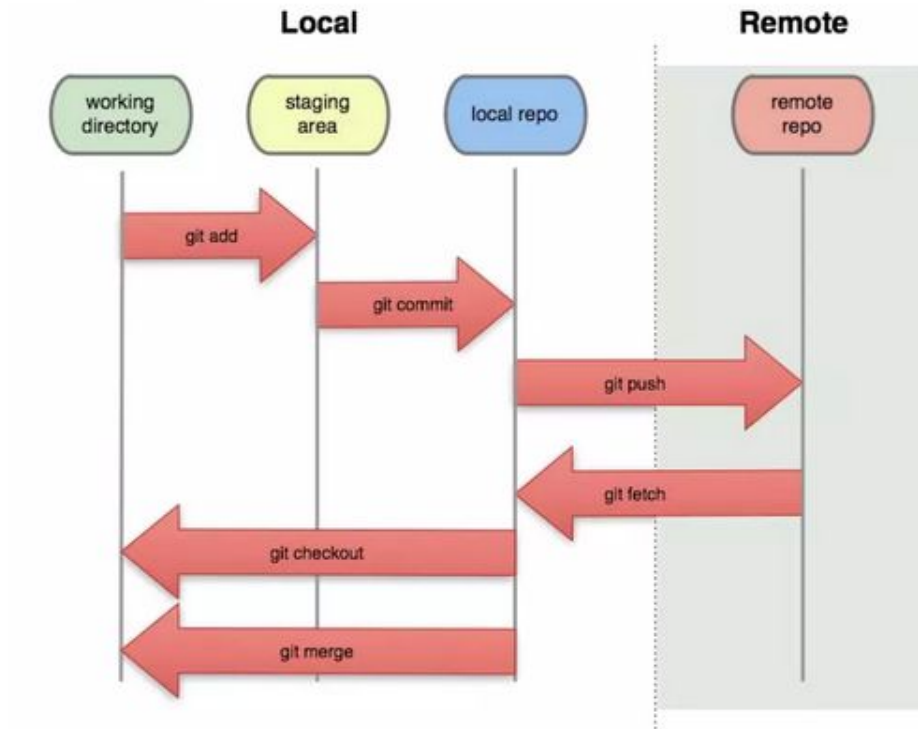
Git Distribution



Git File Cycle



Git Workflow



GitHub



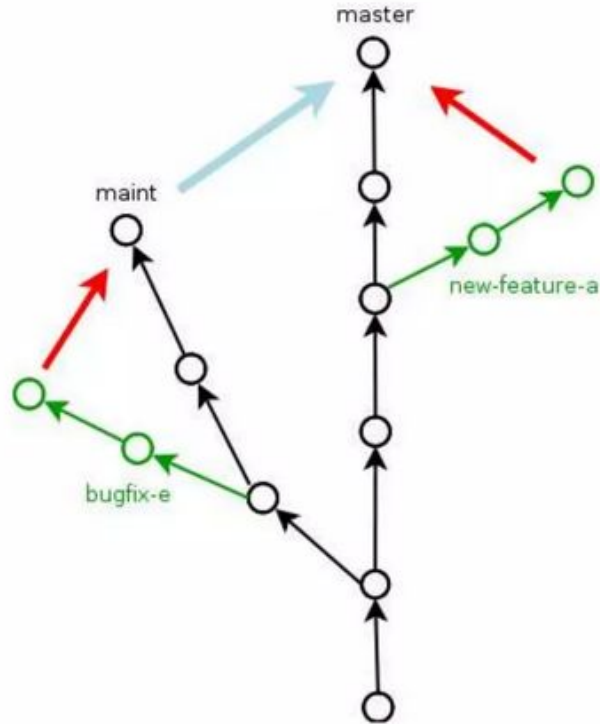
- **44+ Million** developers
- **144+ Million** repositories
- **3+ Million** organizations
- **Fortune Global 50**
 - 70% contributed to OSS in '19
 - 60% building software with GitHub Enterprise

GitHub

- All code in one place
 - Distributed & mainframe
- Collaborative workflow
- End to end traceability
- Automation
- Integrate with other tooling



Branches and Commits



File Status

git init - creates a repository in folder.

git status - checks the current status of repository.

git add - adds file to repository, stages the changes.

git commit - commits the changes in the branch.

Branching

`git branch <branch name>` - creates a new local branch.

`git checkout <branch name>` - makes the specified branch as active.

Commands to Practice

git push - pushes all commits to the remote branch.

git fetch - check how far behind local branch is.

git pull - takes all commits in the remote branch.

git merge - merges changes from one branch to another.

Task

- Create a repository for your own project.
- Create a new file in your own project by VScode.
- Using VScode terminal, push code to github.
- Add a new member (one of your colleagues) as a contributor to the same repository.
- Both contributors push commits to remote, what happens?
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