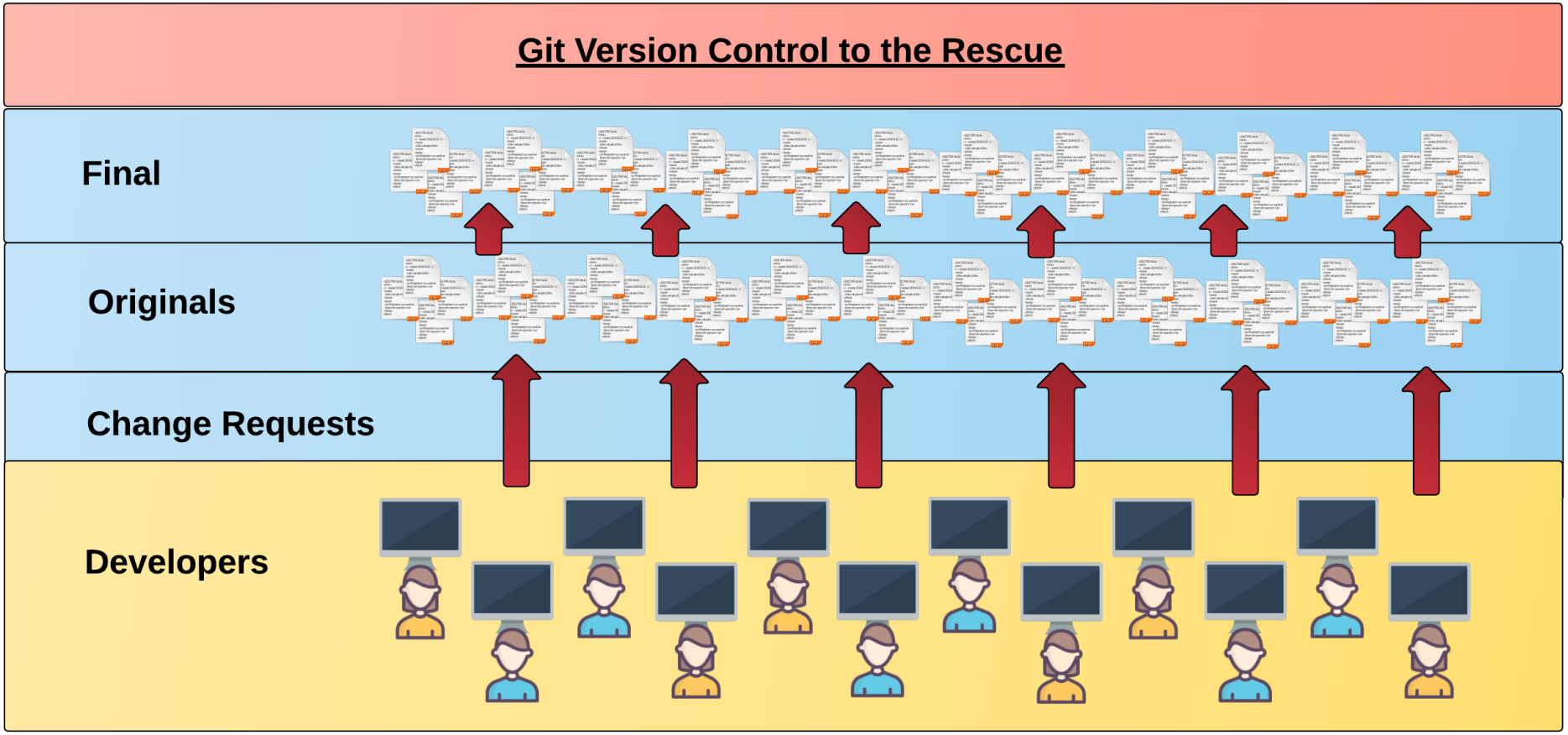
Git Visualized

The Coding Bootcamp

Questions

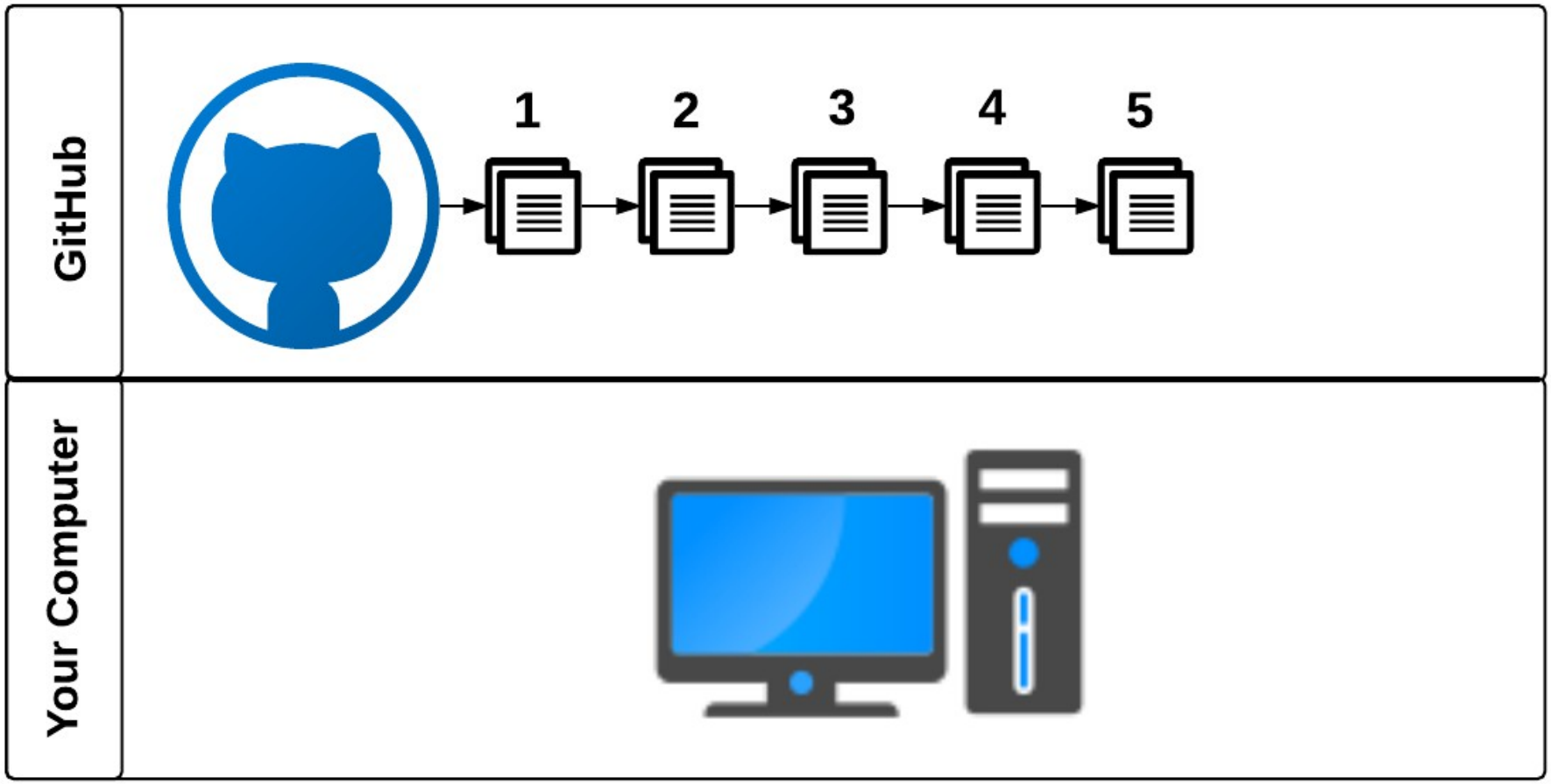
Collaborative Coding

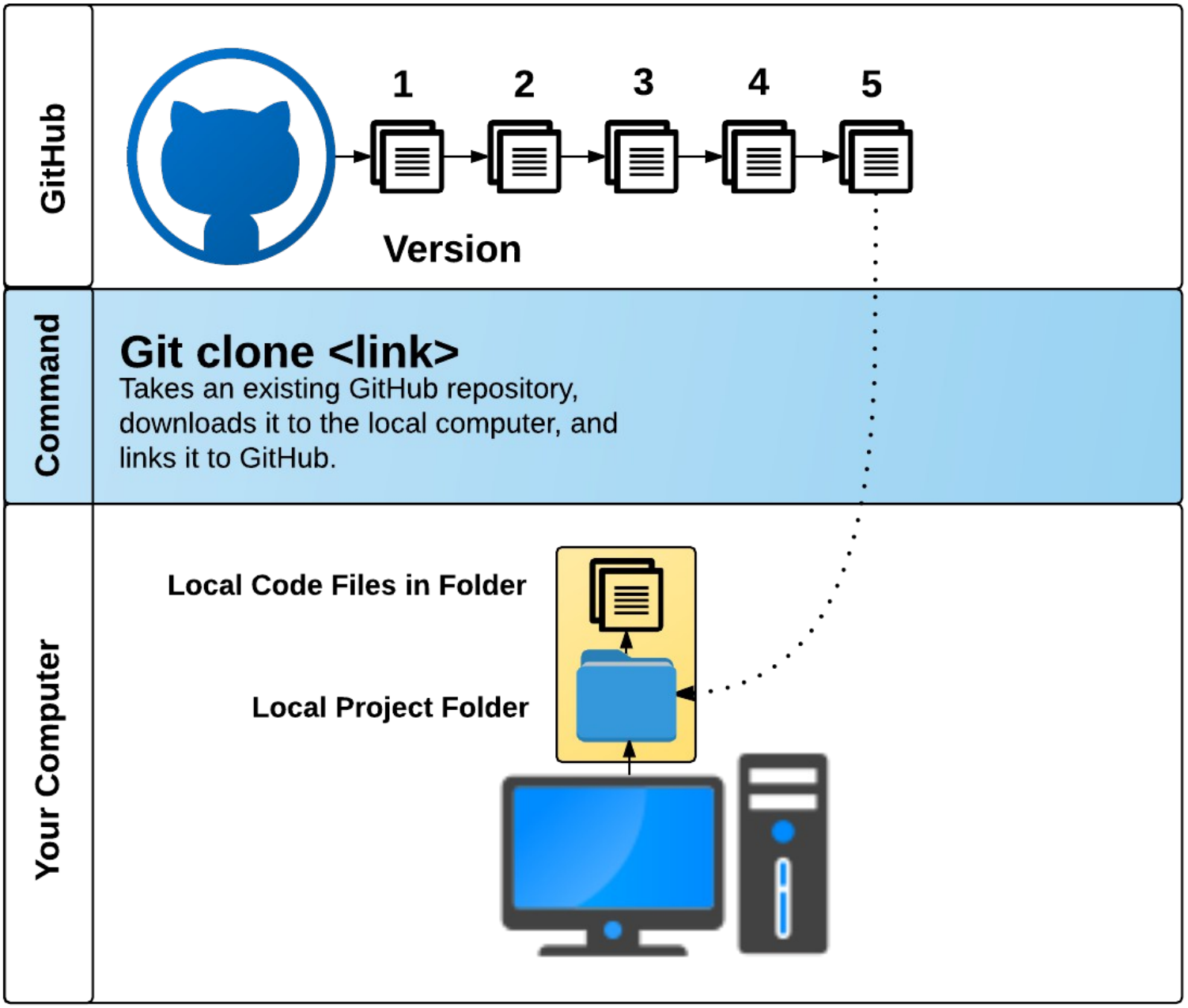


- Modern web development is *highly* collaborative.
- Teams are often extremely large and separated across country (or planet).
- Applications are often made up of hundreds or thousands of files.

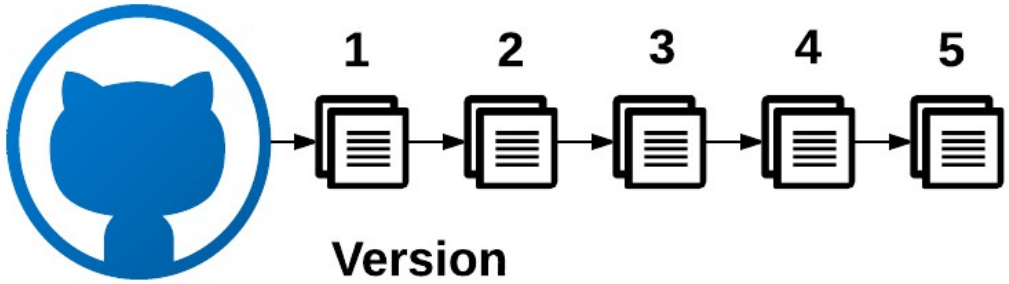
Git Clone + Push

Fundamentally…




GitHub
1
2
3
4
5
Version
Command
Git clone <link>
Takes an existing GitHub repository, downloads it to the local computer, and links it to GitHub.
Your Computer
Local Code Files in Folder
Local Project Folder

GitHub

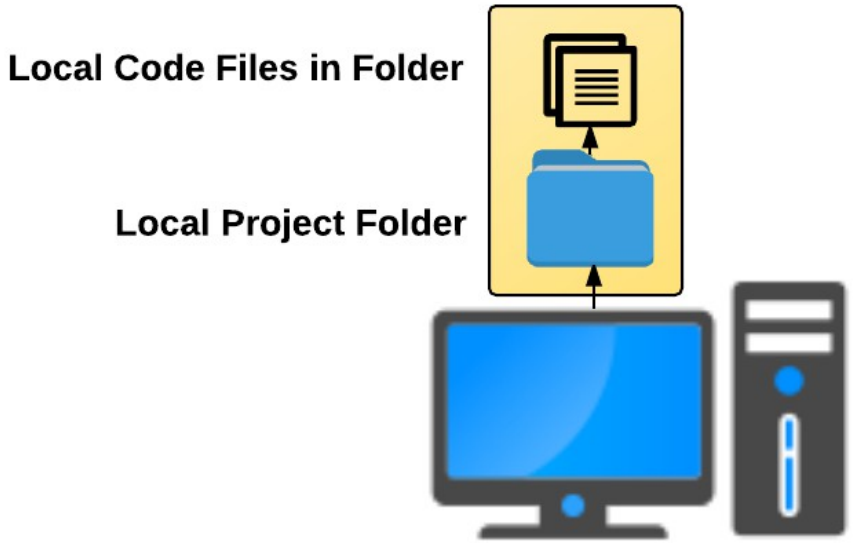


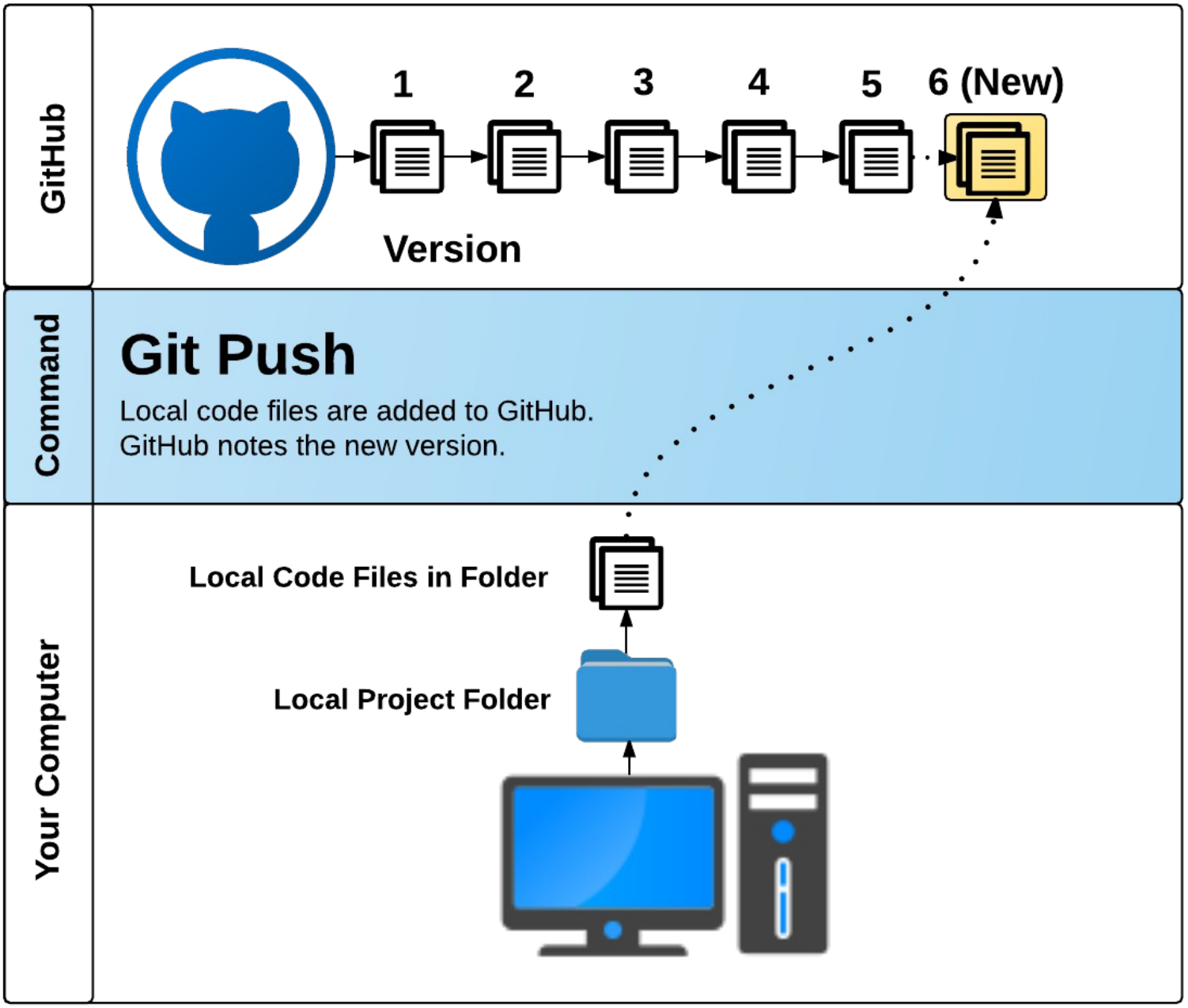
Command

Git add -A
Git commit -m "Comment"

Tells local machine to note all changes to files. Then tells local machine to "save those changes for future upload to GitHub.

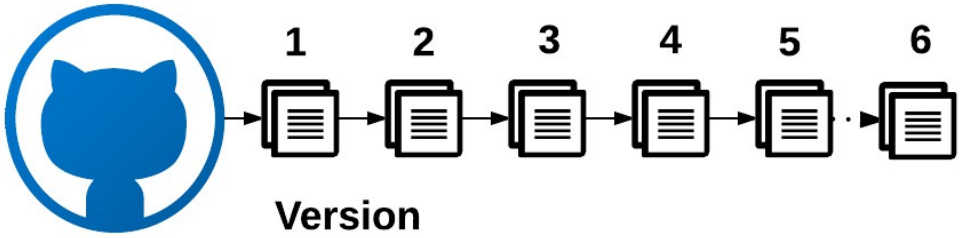
Your Computer




GitHub
1
2
3
4
5
6 (New)
Version
Command
Git Push
Local code files are added to GitHub.
GitHub notes the new version.
Your Computer
Local Code Files in Folder
Local Project Folder

Git Branch, Checkout

GitHub

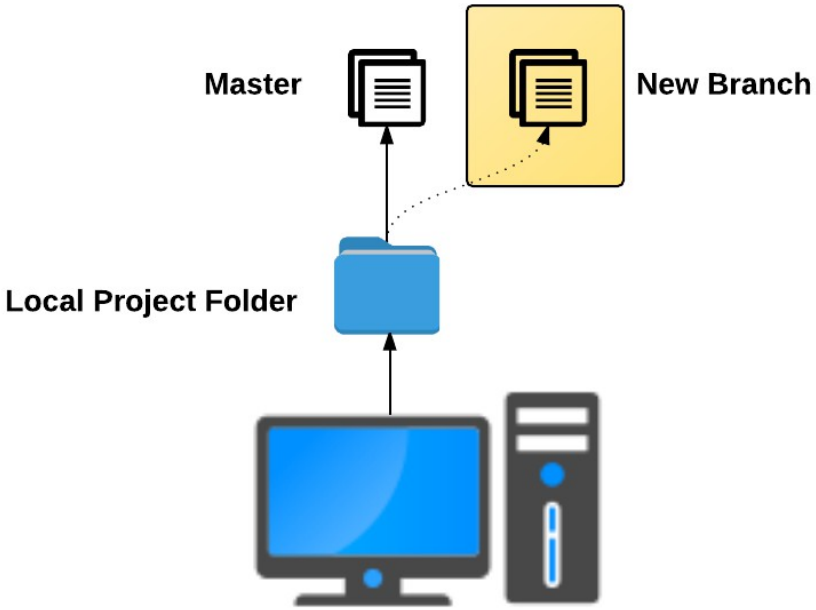


Command

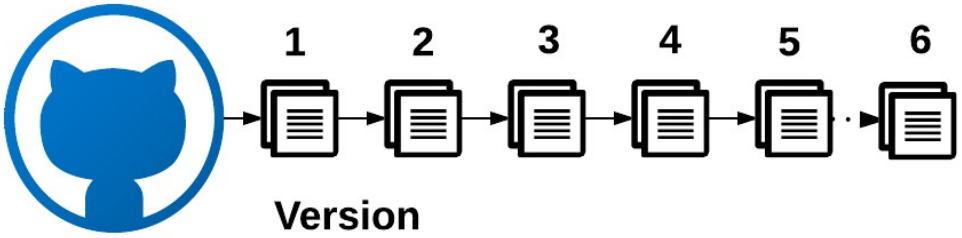
Git Branch <branchname>

Creates a local "branch" or alternate version of code.
However, "master" branch is still the active branch.

Your Computer



GitHub

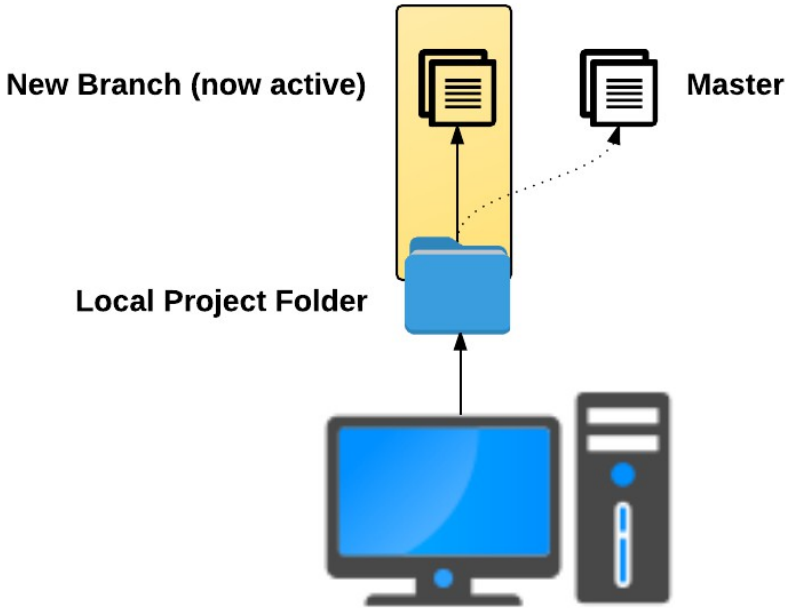


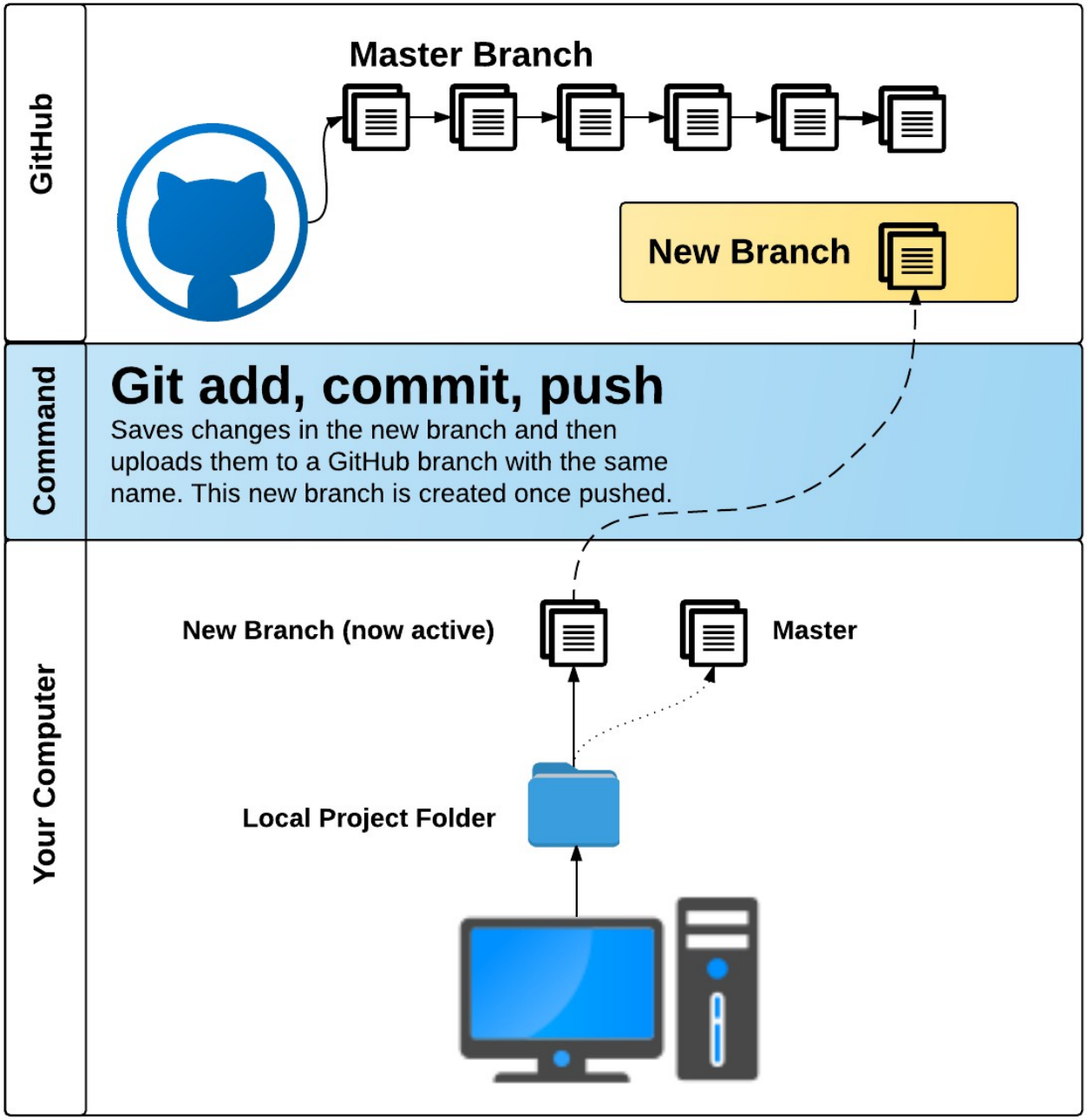
Command

Git checkout <branchname>

Switches the "active" branch to be the alternative branch. Local code files and changes will thus be saved to this branch.

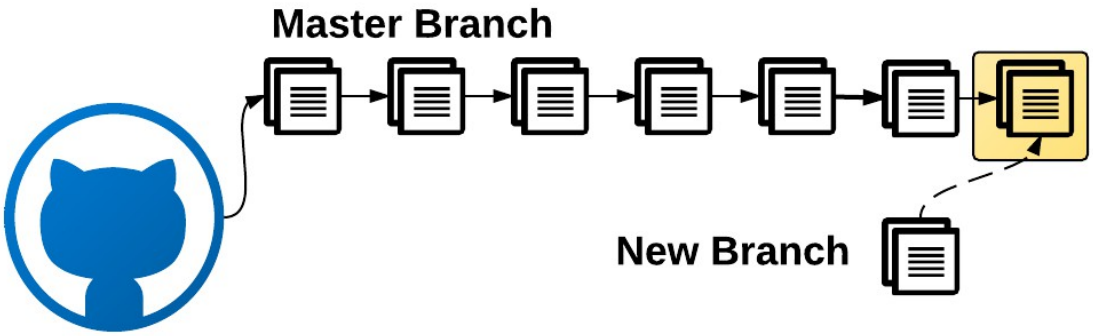
Your Computer




GitHub
Master Branch
New Branch
Command
Git add, commit, push
Saves changes in the new branch and then uploads them to a GitHub branch with the same name. This new branch is created once pushed.
Your Computer
New Branch (now active)
Master
Local Project Folder

Git Pull Requests

GitHub

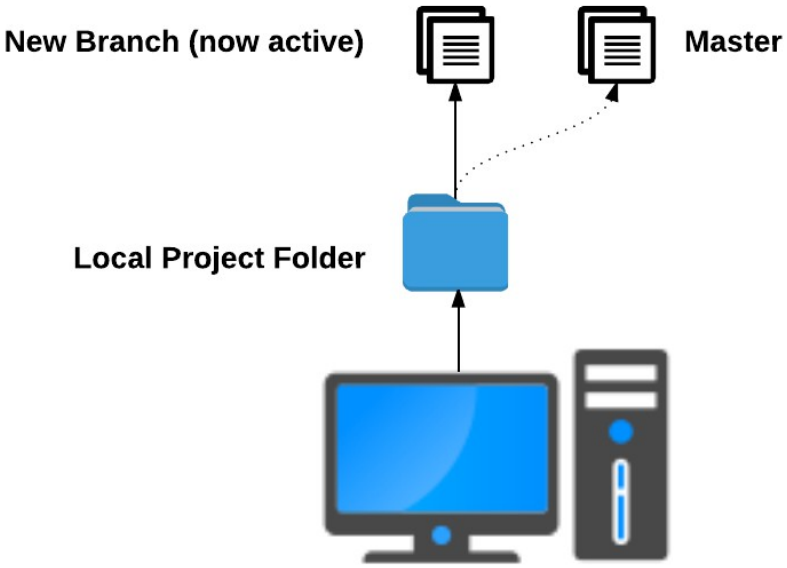


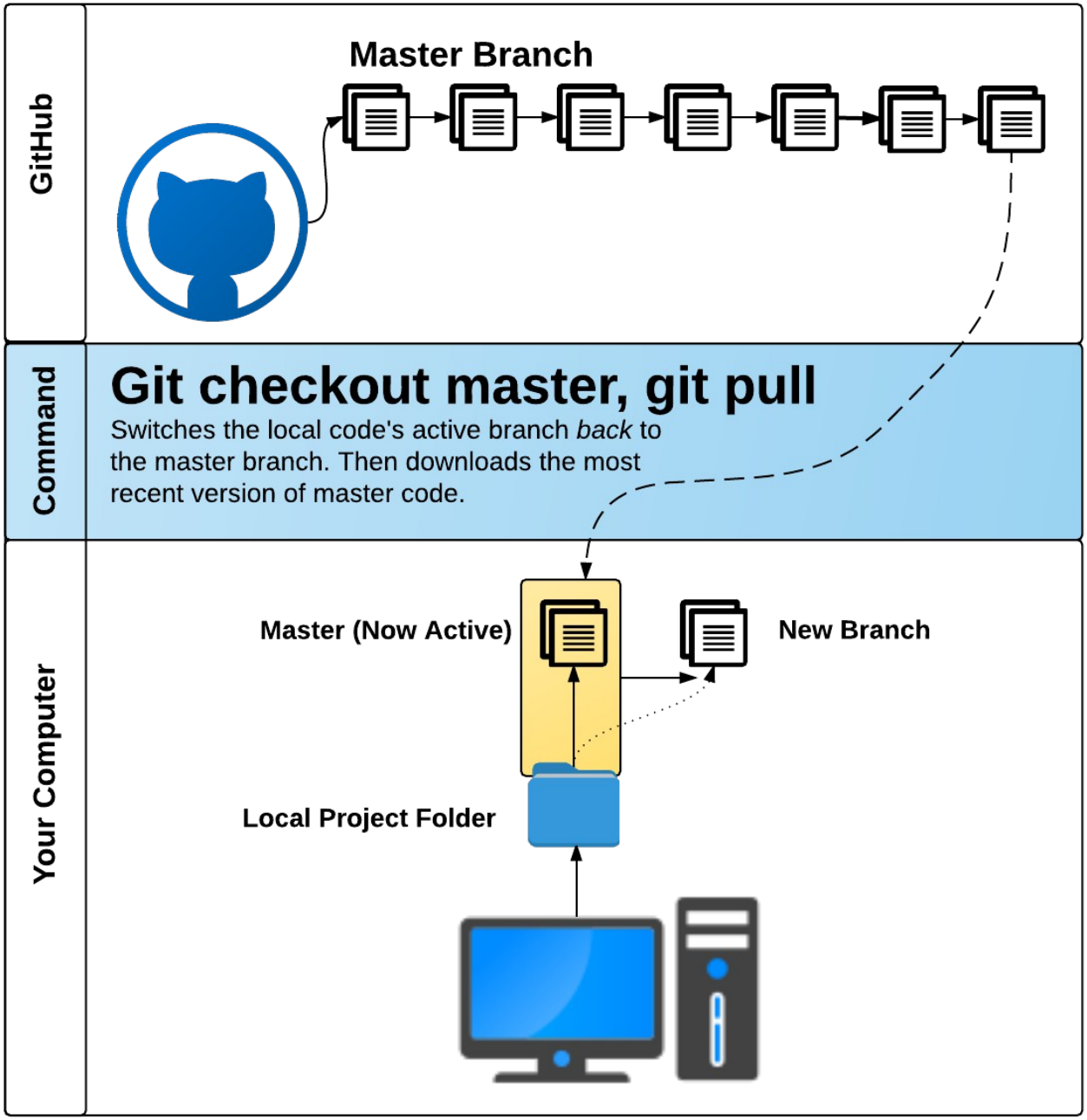
Command

Git pull request and merge

Takes the code from the new branch and combines it into the master branch.

Your Computer




GitHub
Master Branch
Command
Git checkout master, git pull
Switches the local code's active branch *back* to the master branch. Then downloads the most recent version of master code.
Your Computer
Master (Now Active)
New Branch
Local Project Folder

Questions?