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Git and Gitlab For Version Control

Git and Gitlab: Introduction

Quite simply, it is a method used to keep a software system that can consist of many versions and/or configurations, well organized.

There have been a ton of version control systems throughout the lifetime of software, some are:

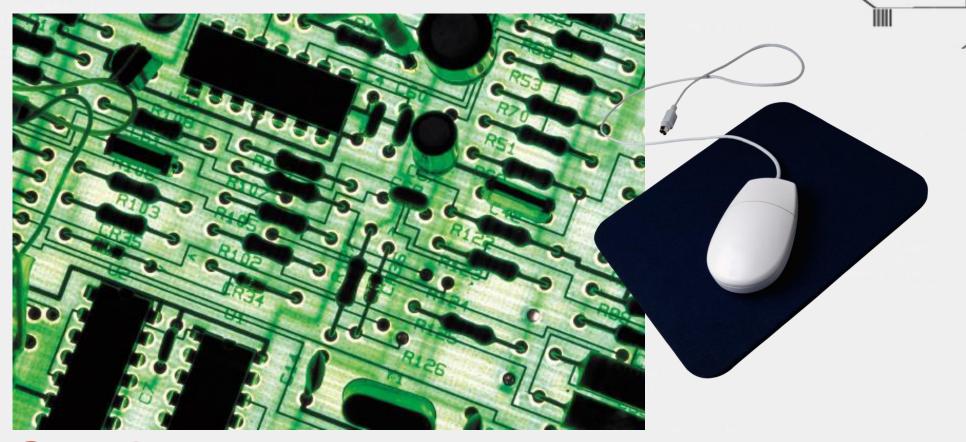
- CVS kind of the grandfather of source control
- PVCS commercialized CVS
- Subversion inspired by CVS
- Perforce
- Microsoft Visual SourceSafe
- Mercurial
- TeamSite
- Vault
- Bitkeeper Used to manage the Linux kernel before...
- Git created by our favorite Linux author and creator: Linus!

Git and Gitlab: Introduction

- Initialization
 - Creating the empty repository for use
- Clone
 - Making a local full copy on your workstation
- Checking Out
 - Locking a copy of one or more files for exclusive use
- Branching
 - Allowing a set of files to be developed concurrently and at different speeds for different reasons
- Merging
 - > Taking different branches or sets of changes and integrating into one set or branch
- Resolving
 - > Taking conflicting changes from multiple people on the same file and manually addressing
- Commit
 - Taking changes from the local system and committing them to the branch
- Push/Pull
 - Taking changes locally or remotely and merging into one or more branches



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Covering:

We will be covering Git from start to finish, including touching on some of the public Git hosting services. In addition, we will also cover installing Gitlab, a full web application like Github, that allows you to work with multiple complex projects and teams. Don't worry if things seem a bit confusing now, we are going to make a source control expert out of you yet!

