

BO7 Sept 13 Lec 1 Notes

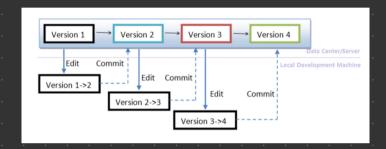
Centralized version control

- Lo Create local copy of the repository, make changes, and commit the change to the repository
- 4 Code should be kept in a centralized location (Repository)

- Terminology:
 Working copy-copy of the repository
 - to commit . make changes

Tracking changes

to Tools will allow you to revert to a previous version source code (only when commits occurred) the



NOT version control systems

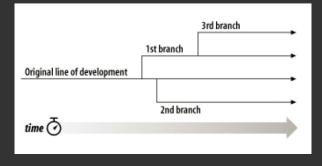
- 4 Secure shell (SSH)
 - 4 Connect to a remote computer and work in a shell on that computer
- 4 Secure Copy (SCP)
 - 4 Way to securely copy files from one computer to another.
 - 4 Transfers a copy. of the files
 - 4 Does not version files

Version Control - Managing concurrency

- 4 What if two or more people want to edit the same
 - 4 Option | Prevent it
 - Known as pessimistic concurrency.
 - Option 2: Allow it, fix issues afterwards (look at slides)
 - La Optimistic concurrency

Version Control - Branching

- Branches are divergent copies of development lines
 - These versions are used to build out complex features, or do experiments, without having an impact on the main code line.



Version Control - Storage Scheme

** Storing every copy of every file we generated over the course of a project is not practical.

** Version control systems store incremental differences in the file structures.