Introduction to SVN

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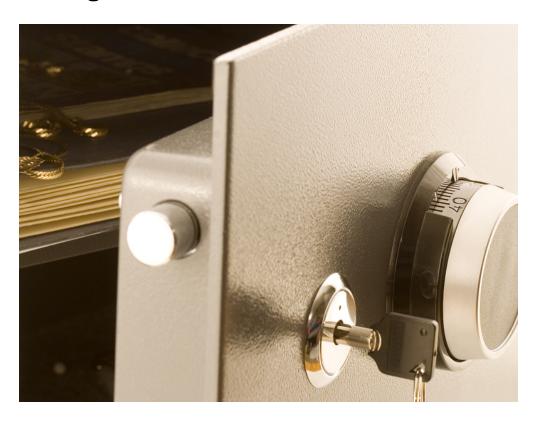
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About this Course

- Basic introduction to SVN
- Windows based with Tortoise SVN
- Working knowledge vs details



Course Outline

- Introduction to SVN
- Setting up SVN
- Basic Commands
- Branching and Merging
- Best Practices

Outline

- What is Source Control?
- About SVN
- Architecture
- Repository Structure

What is Source Control?

- Code storage
- Versioned
- Facilitates multiple developers



Types of Source Control

- Locking
- Merging
- Distributed







History of SVN

- Created by CollabNet in 2000
 - Designed to be like CVS but better
- Became a top-level Apache project in Feb 2010

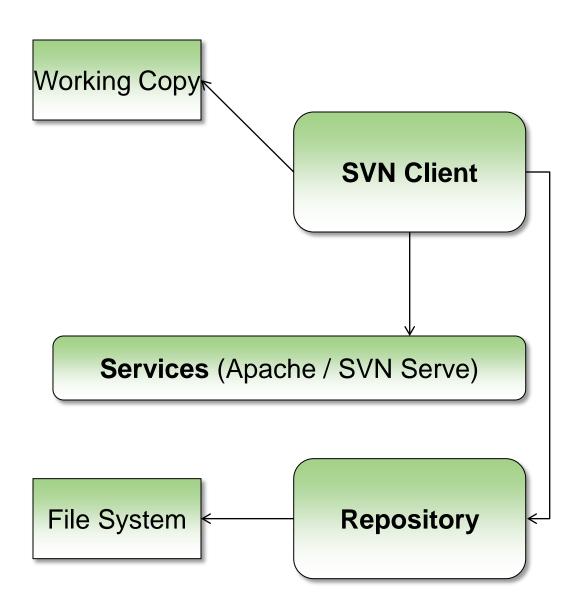


About SVN

- Merge based
 - Developers check out local copies of code
 - Changes to the same file are 'merged'
- Commits are atomic
- Uses properties for metadata
- Branching and tagging are copies
- Different implementations



Basic Architecture

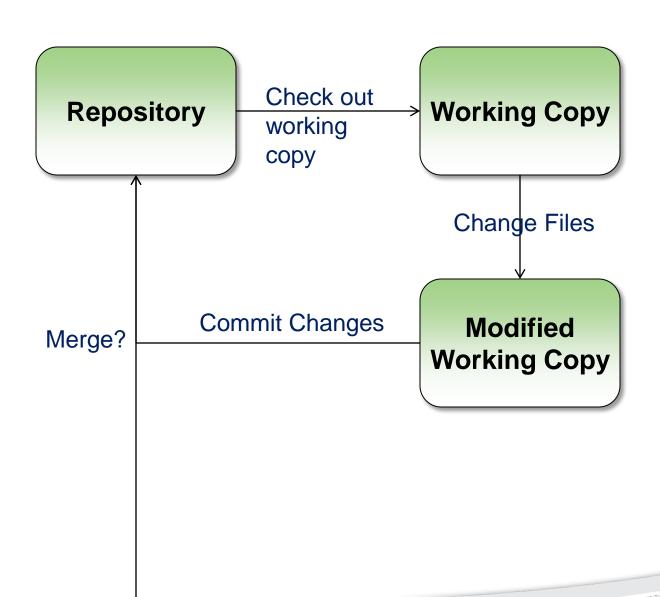


Basic Architecture

- Like a shared file system
 - But versioned!



Using SVN



Repository Structure

A repository is a big tree!



Branches

- Branched code goes here
- Uses a copy to be efficient
 - Only differences
- Can branch any part of code
- Branches are like new trees



Tags

- Just a name for a revision
- Also is a copy, but read only
 - Doesn't take up additional space



Trunk

- Main code line
- Active development happens on trunk



Summary

- What is Source Control?
- About SVN
- Architecture
- Repository Structure