Source Code Control

• A tool to track changes in your files.
• Allows to roll back to any changes based on versioning
• Example of these tools are CVS, SVN
• More covered later
Change Management

- (wiki) is a structured approach to shifting/transitioning individuals, teams, and organizations from a current state to a desired future state.
- In sw engineering, an approach to track, control and transition software/artifact quality toward defined goals.
Change Management in Software engineering

- Per feature or usecase
- Change ID
  - New development
  - Maintenance/ Enhancement
  - Bug report
- Priority
- Severity
- State
Change Management in Software engineering

- Quality states & the state diagram
- Examples
  - Initial/created
  - Assigned
  - Submitted (developer)
  - Unit tested
  - IT_passed, SVV_passed/final
Quality Transition

Code submission to repository

Assign to a developer

Init

As

Su

Ut

IT

SV

Unit test Passed

Intg Passed

SVV Passed

F

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• Wiki “software configuration management (SCM) is the task of tracking and controlling changes in the software. Configuration management practices include revision control and the establishment of baselines.”

• Change control + software manufacturing (building/construction process
Building process/tool

- Define your project & dependencies
- Smart compilation with changes & dependency
- Tools such as Make & Ant