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### As Part of the Build

Université Nice Sophia Antipolis



# Code complexity

- Lines of code
  - With/without comments
- # methods per class, #lines per file

Cyclomatic complexity

## Static code analysis

- Detection of specific patterns
- On source or bytecode
- Useful for
  - Vulnerabilities
  - Copyright infringement
  - Defect prevention

### Coverage

- Code exercised by tests
- Drives
  - testing strategy
  - dataset selection
- But... easy to trick

#### Multitools

- Eg: SonarQube
- Defects, code smells
- Security vulnerability
- General code "health"

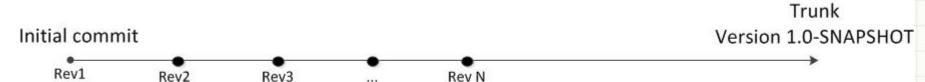
#### **BRANCHING**



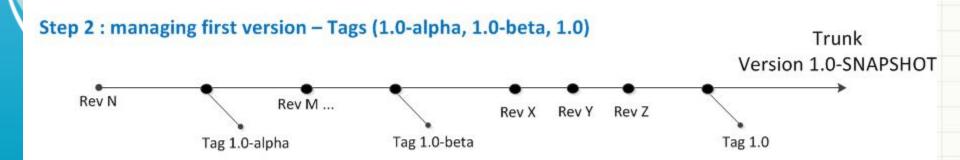


# Start a project



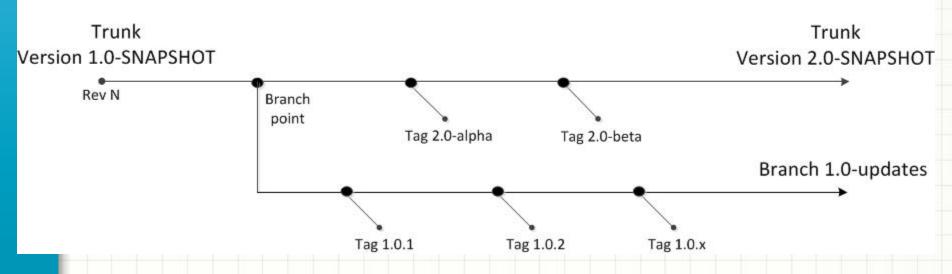


#### First release



#### Several releases

Step 3: managing several versions – Branches (trunk = 2.0-SNAPSHOT, branch for 1.0-updates)



# Strategies

Release branch

Feature branch

Team branch

# Git Flow v0.2 ν0.1 Master Hotfix Release Develop Feature Feature 12

