Software Engineering Project

Thomas Luvö tom@samoht.se @tomluvoe

Thomas Luvö

- VP at Synective Labs AB
- 10 years experience from the telecommunication industry and software development
- 2 years of agile transformation in practice
- Approximately 5 years with software configuration management and version control systems strategies

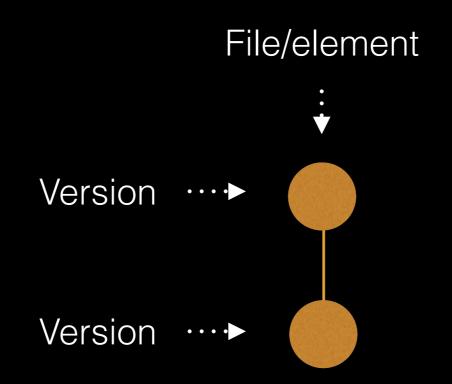
What is version control?

- Version control is about managing changes in files or elements
- Logical way to organize and control versions and releases
- Version control system is is an application/system to manage the version control
 - Git, SVN, ClearCase
 - Google Drive, Dropbox, Wiki

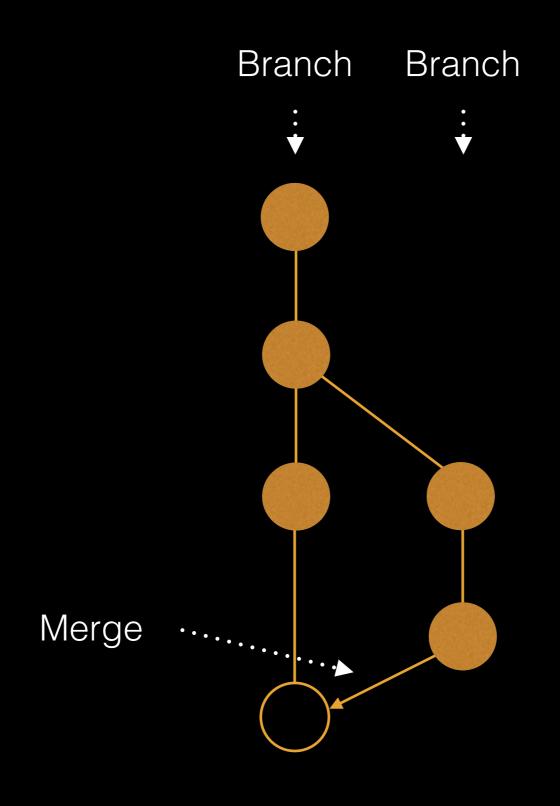
Why use version control?

- Code must be shared and "protected" continuously within the project
- Several developers must be able to work on the same code in parallel
- Software exist in several versions and each must be possible to be retrieved and updated

File/element and Version Version tree



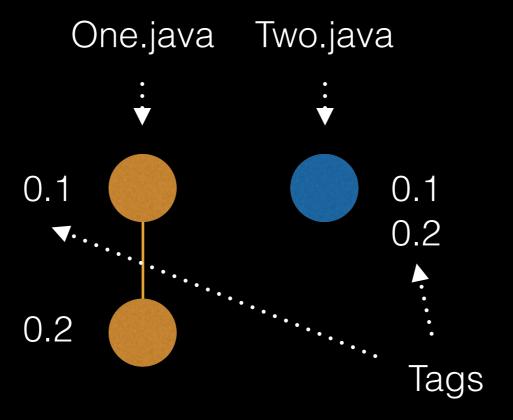
Branch and Merge



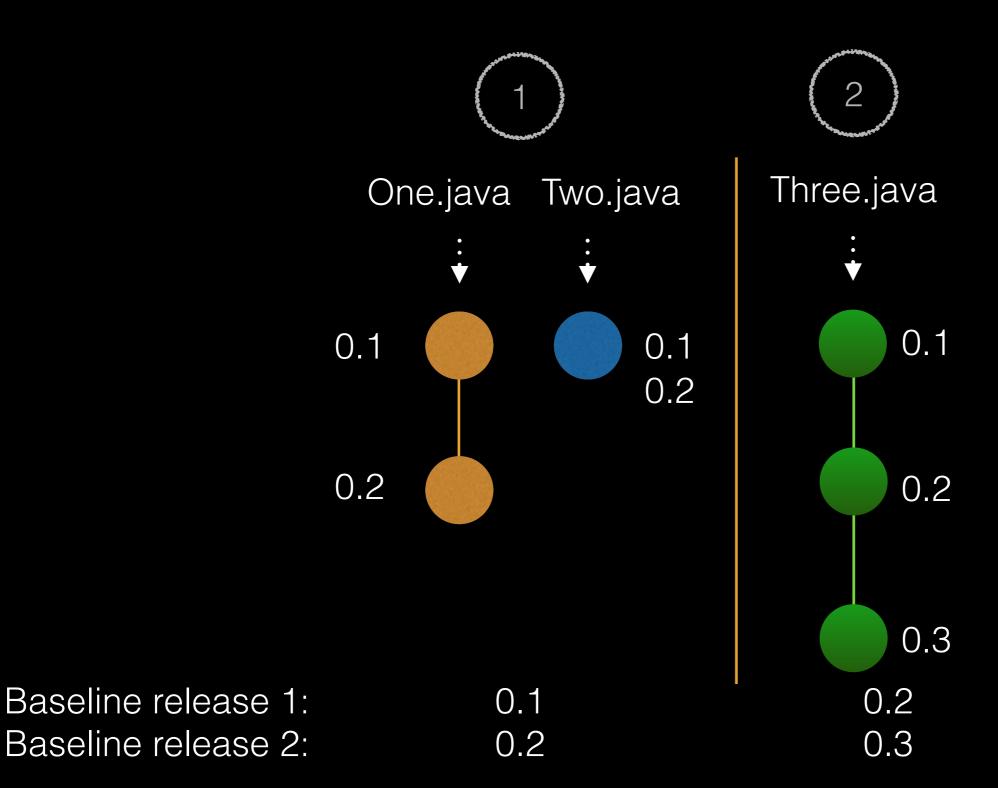
Why branching?

- Avoid interfering with stable software
- Create a stable environment for your development
- Allow for controlled release handling

Tags



Baseline

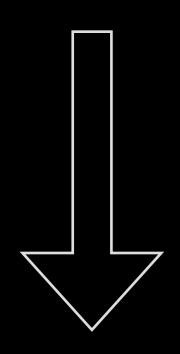


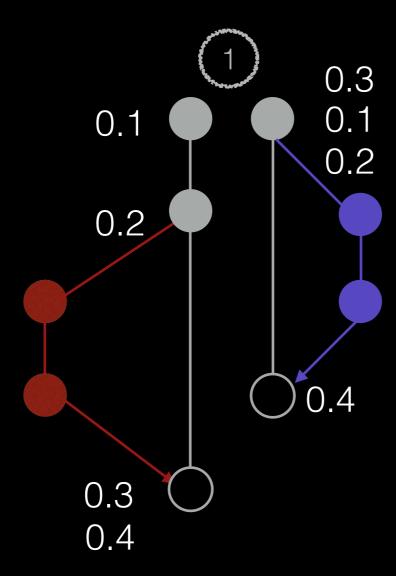
Multiple features in parallel

Baseline:

- Module 1: 0.2

- Module 2: 0.3

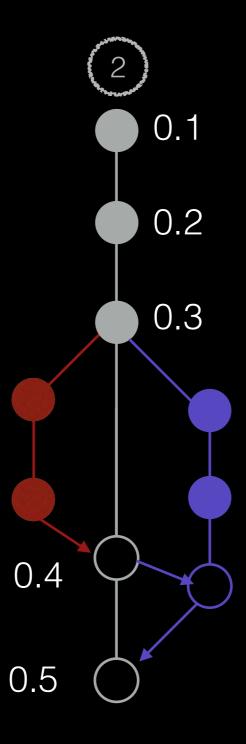






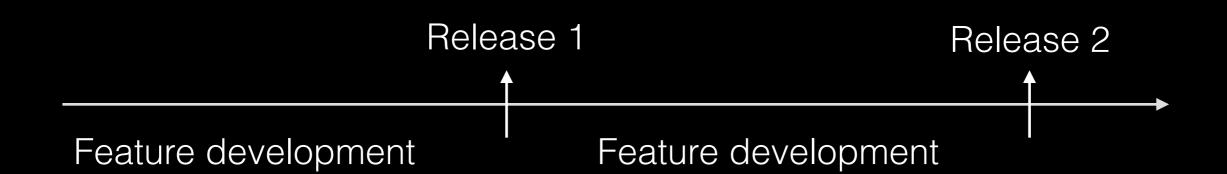
- Module 1: 0.4

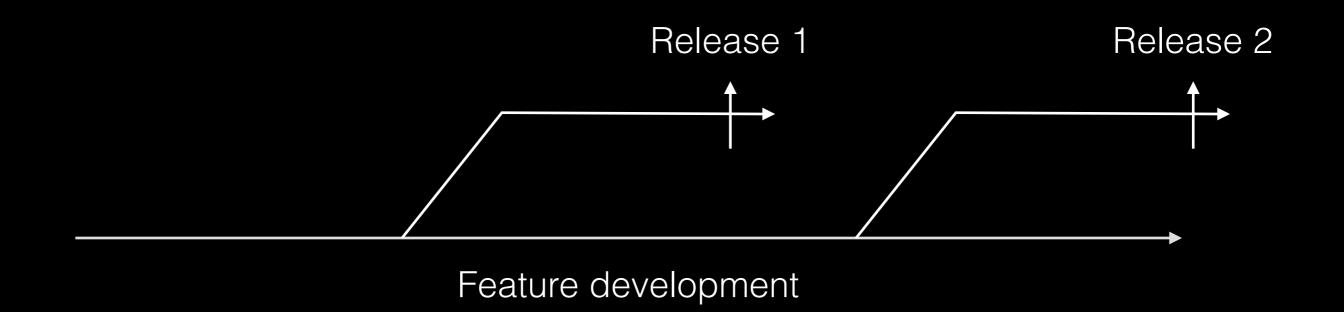
- Module 2: 0.5

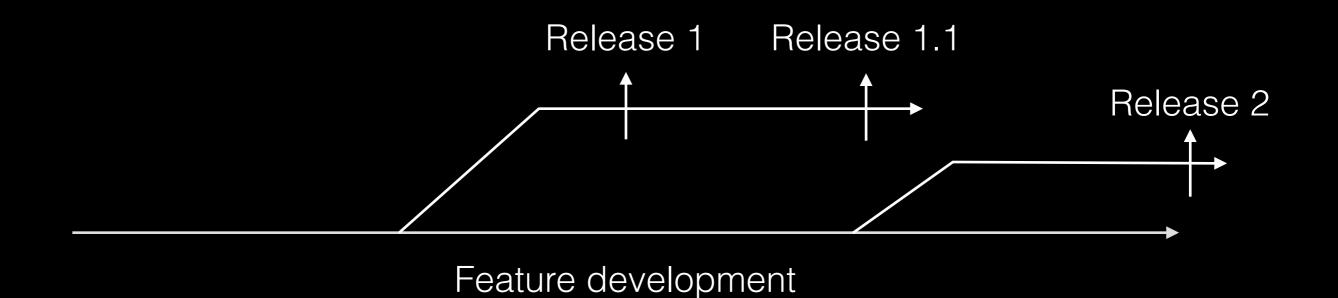


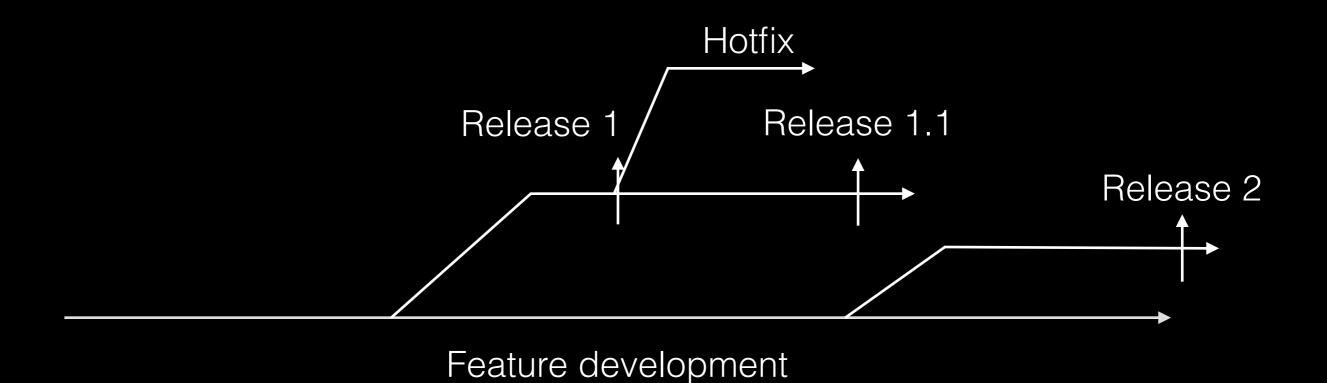
Branching model

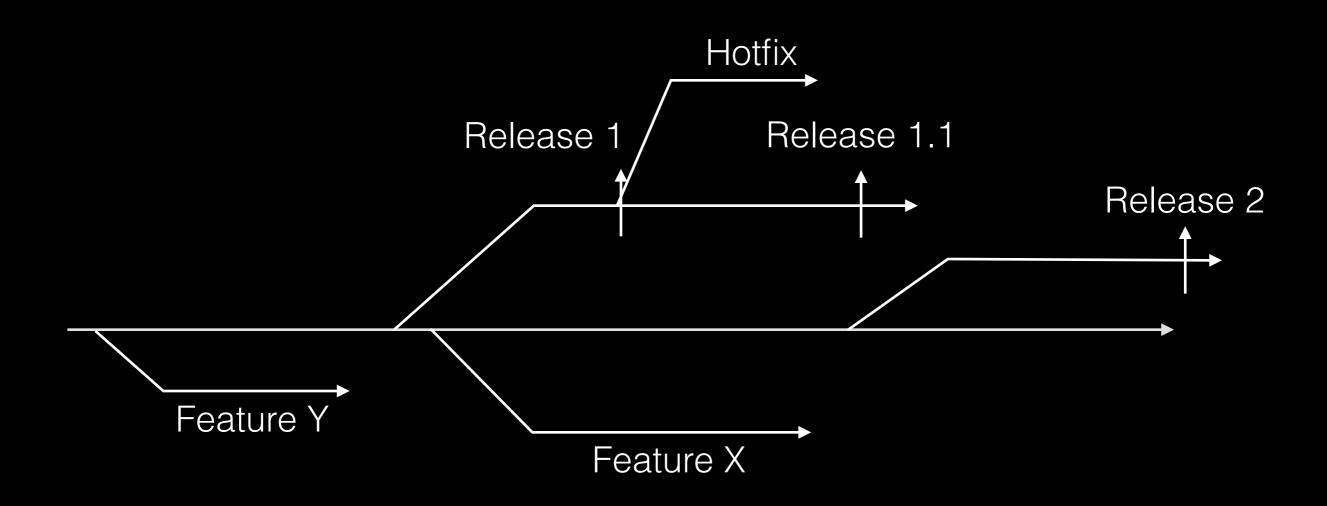
Ideal world

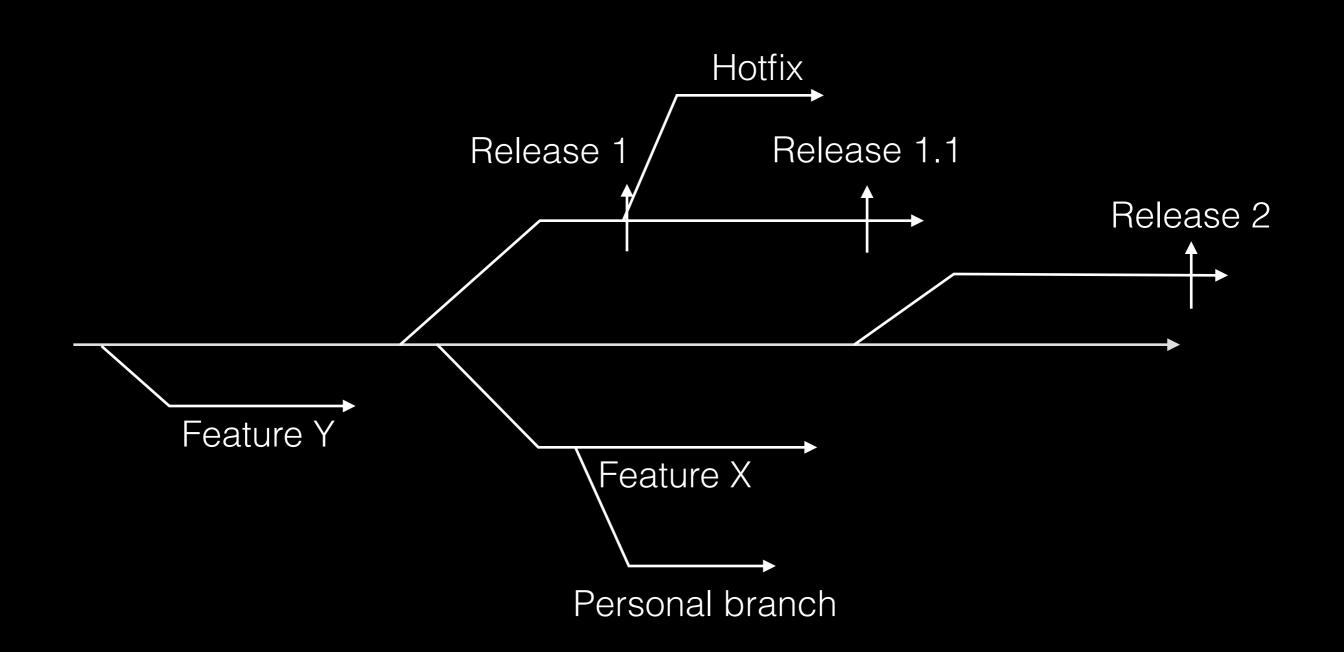




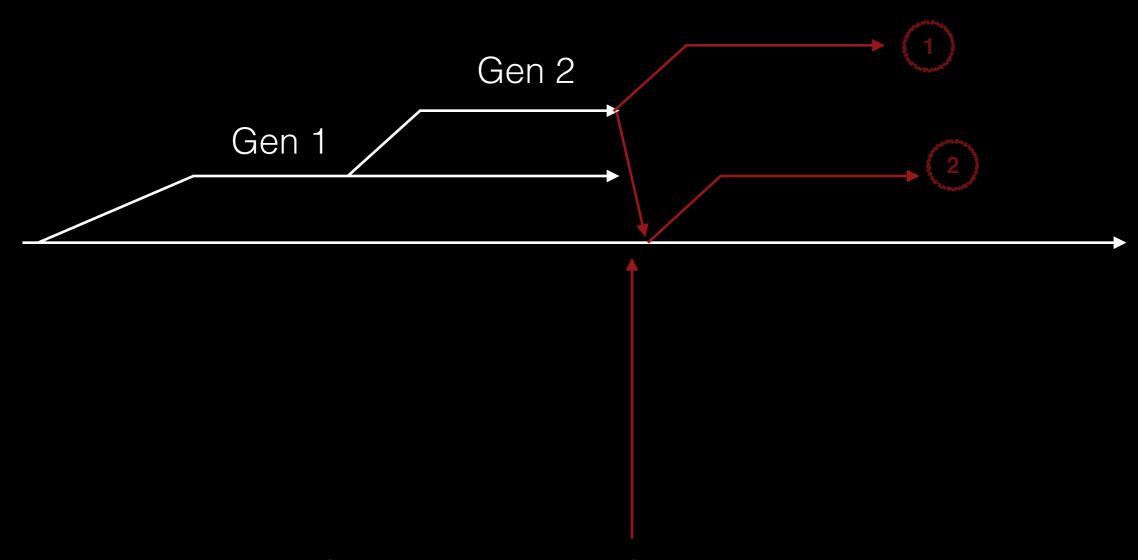








Branching decision



New platform with new interfaces and new requirements

Integration scenario

