Collaborative Modeling

for DSMLs in Papyrus with EMF Compare

Maximilian Koegel
mkoegel@eclipsesource.com

June 23rd, 2015

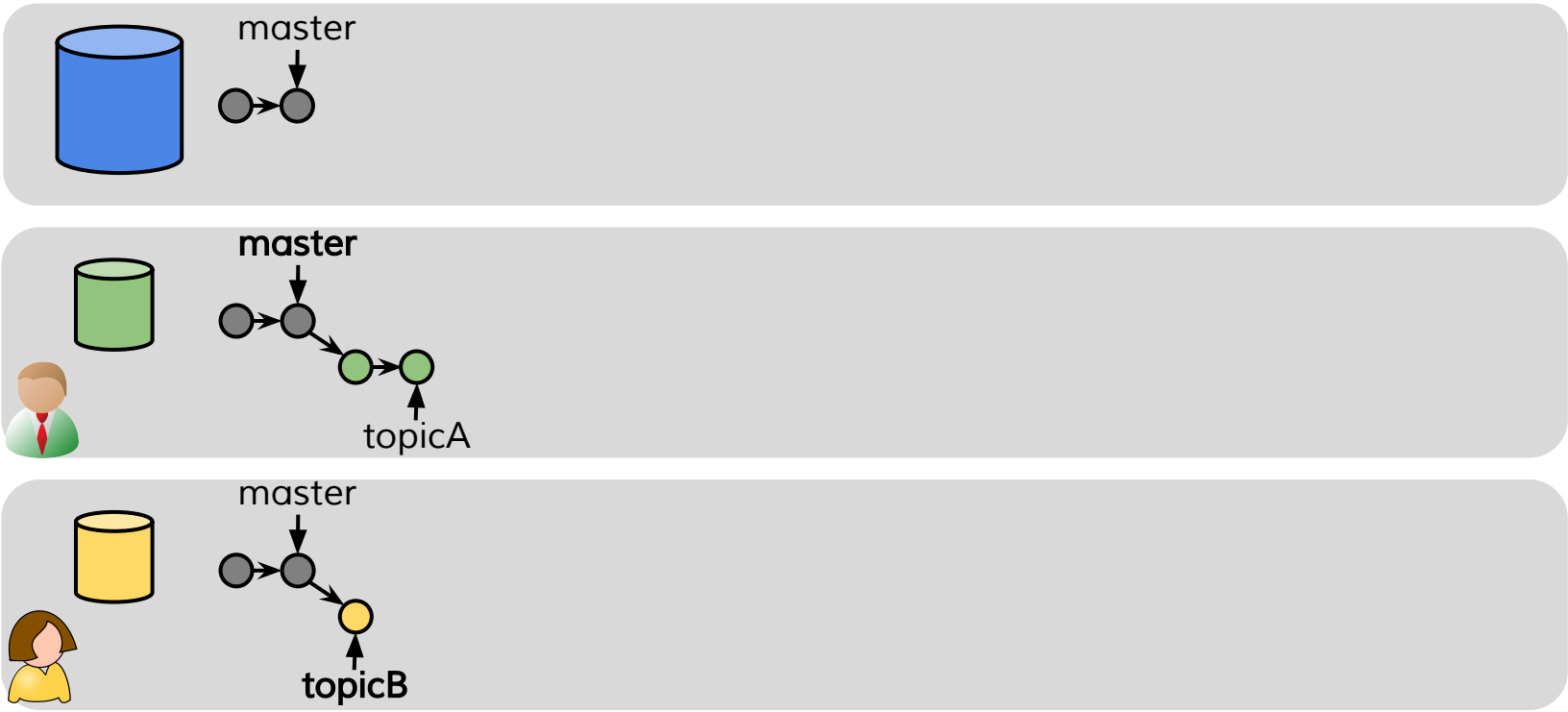
Collaboration on models is essential

- Models become large
- Teams of developers need to collaborate on models
- Teams need to be able to work in isolation and integrate their work later
- Users need to understand what was changed and how

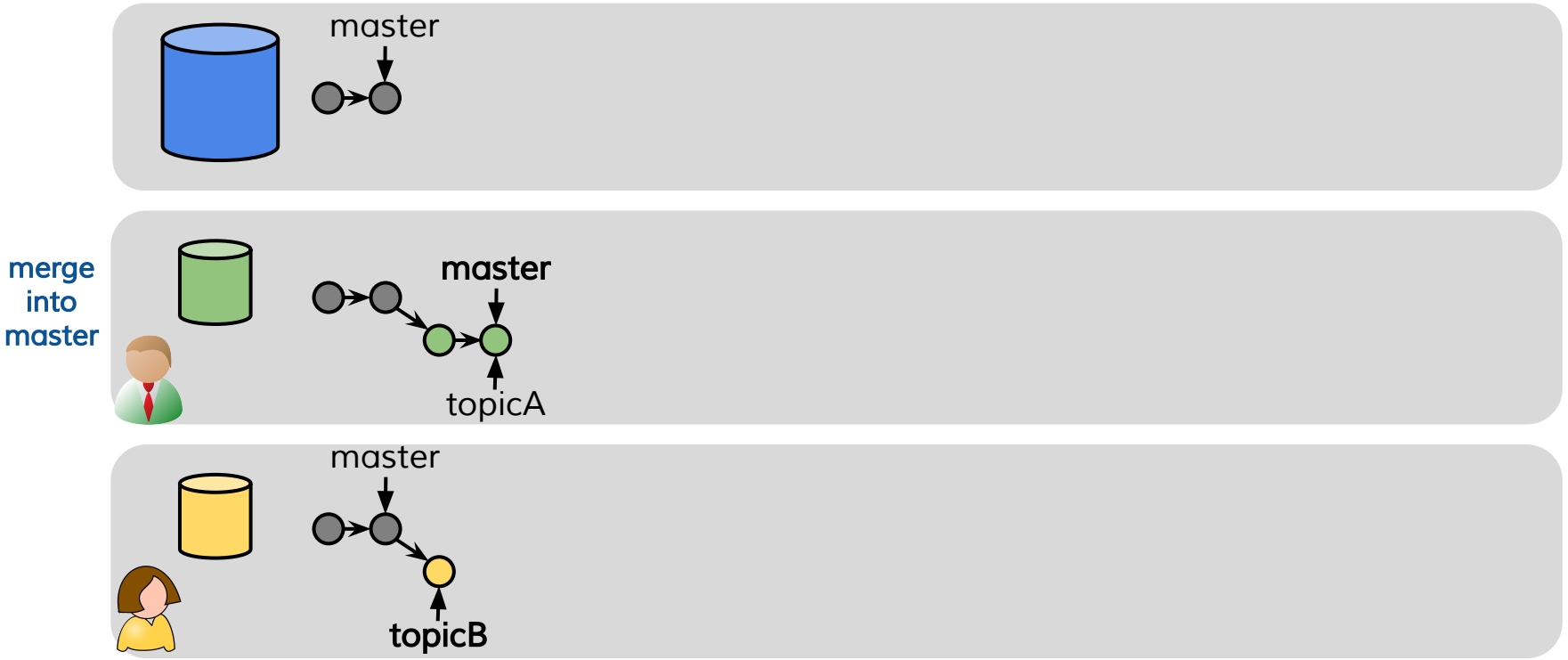
Example of basic collaboration workflow

Example of basic collaboration workflow

Example of basic collaboration workflow

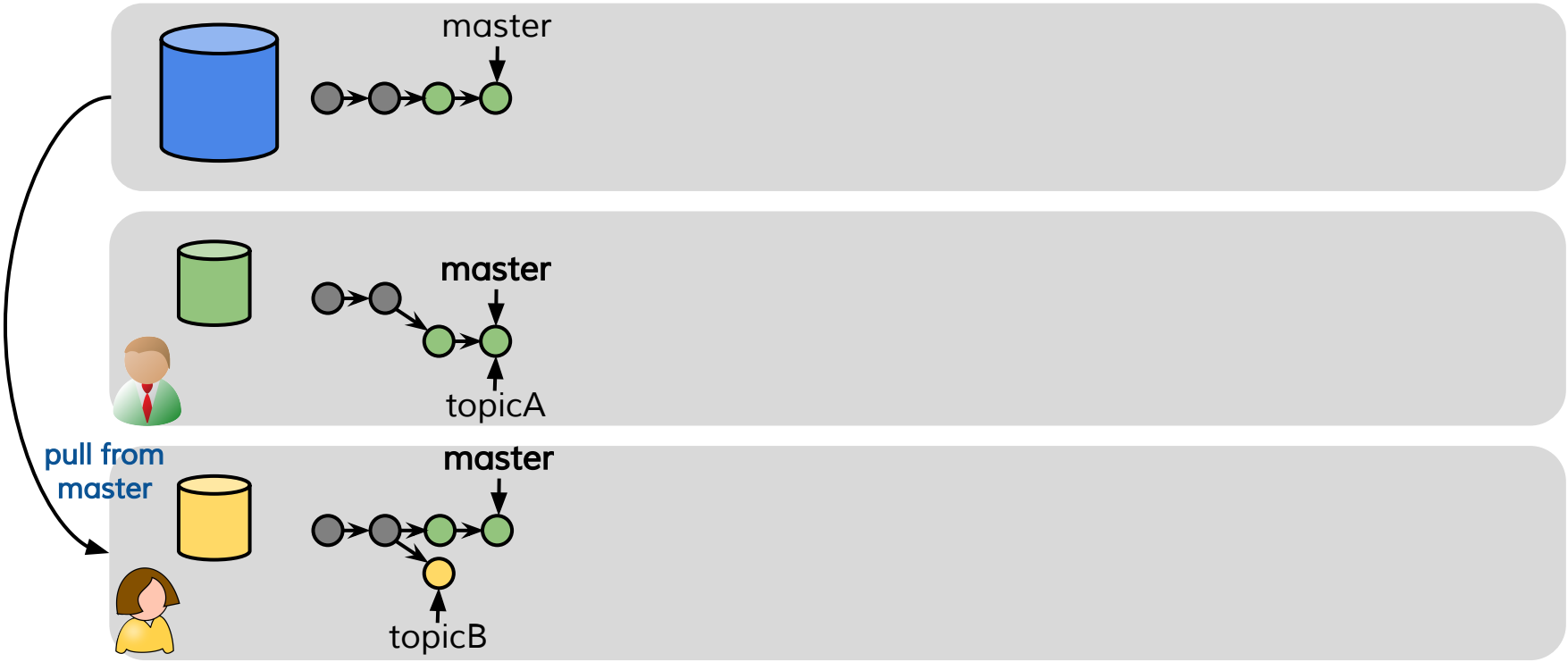


Example of basic collaboration workflow



Example of basic collaboration workflow

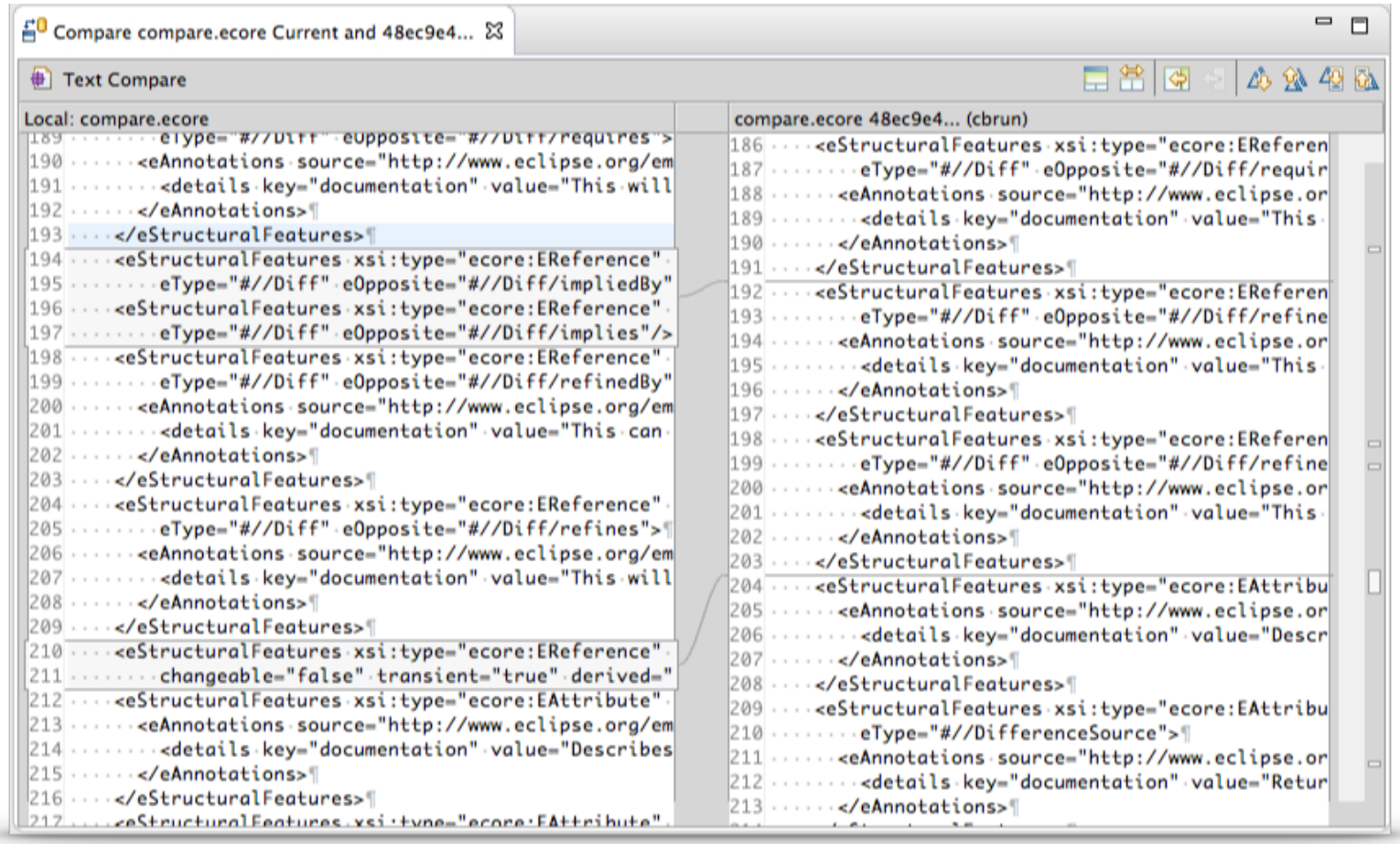
Example of basic collaboration workflow



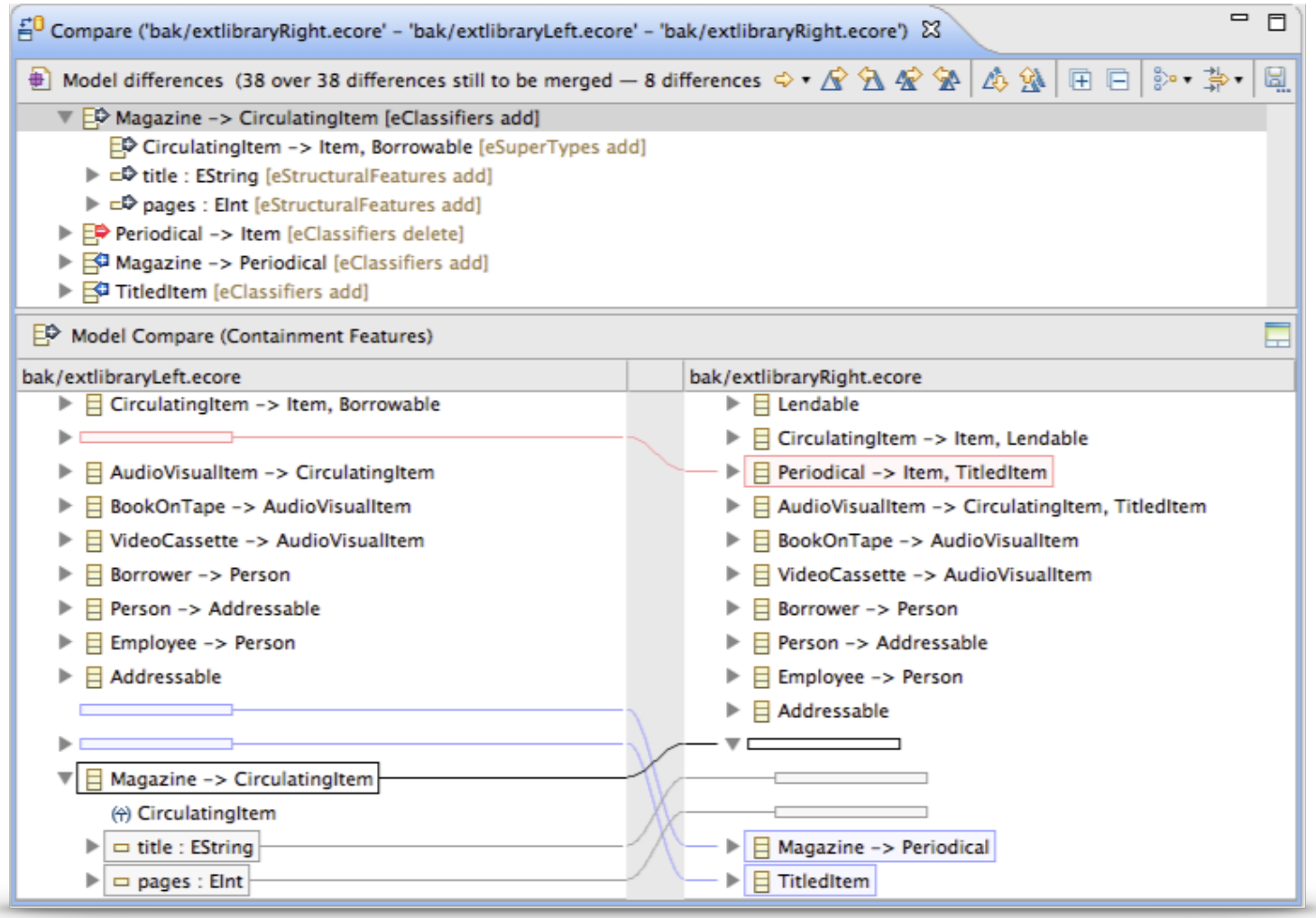
Example of basic collaboration workflow

EMFCompare

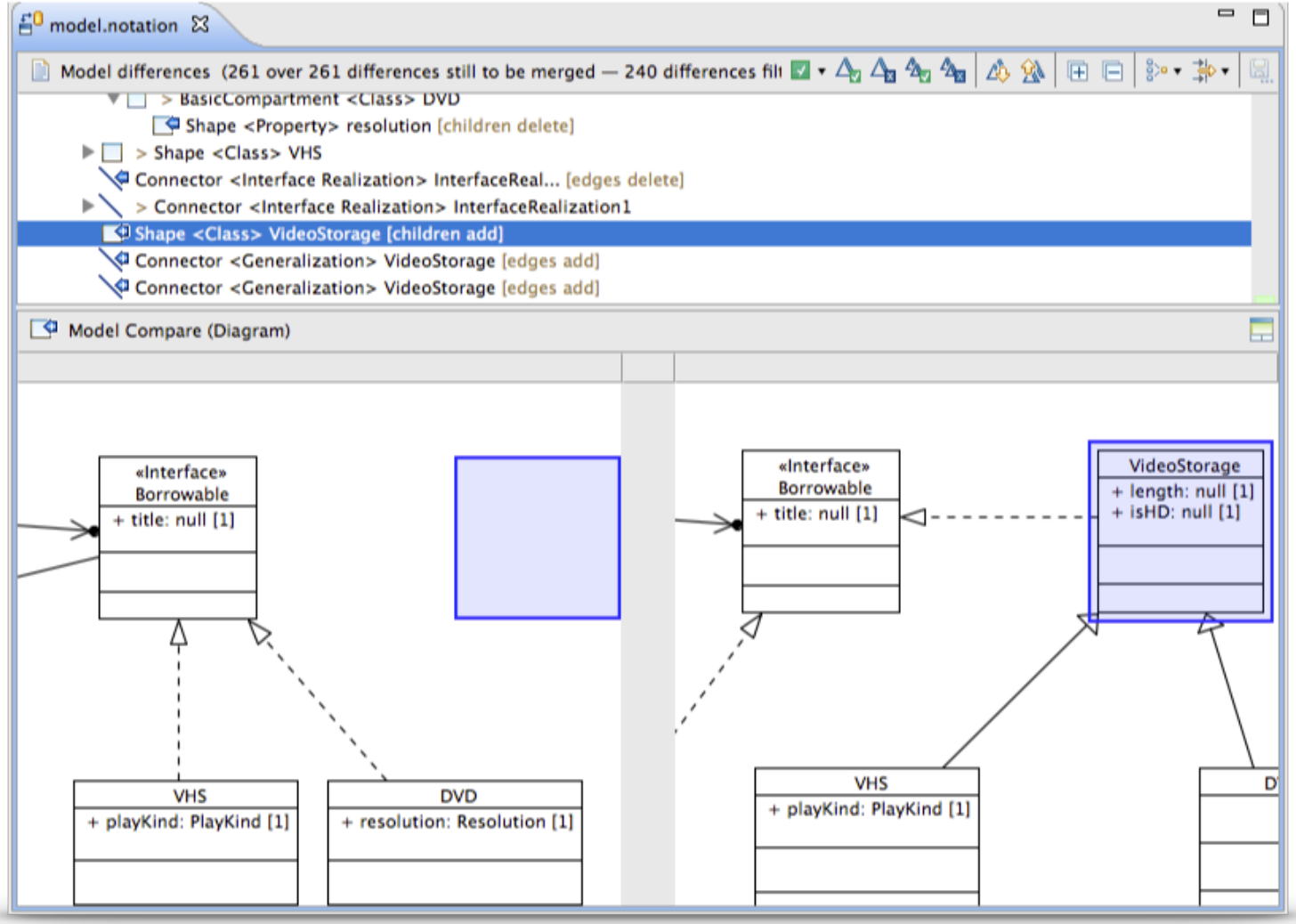
Comparing Models without EMFCompare



Comparing Models with EMF Compare



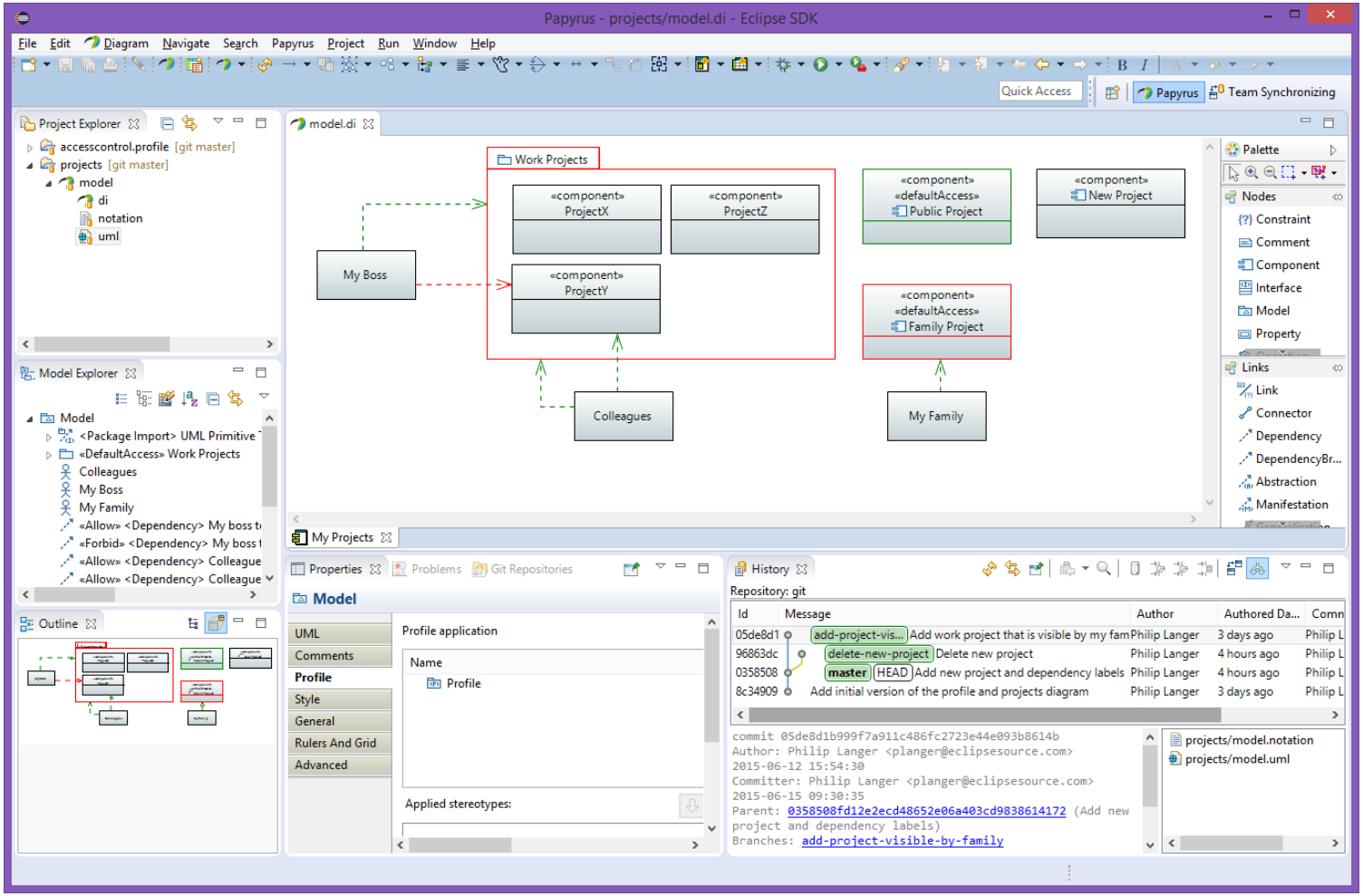
Comparing Models with EMF Compare



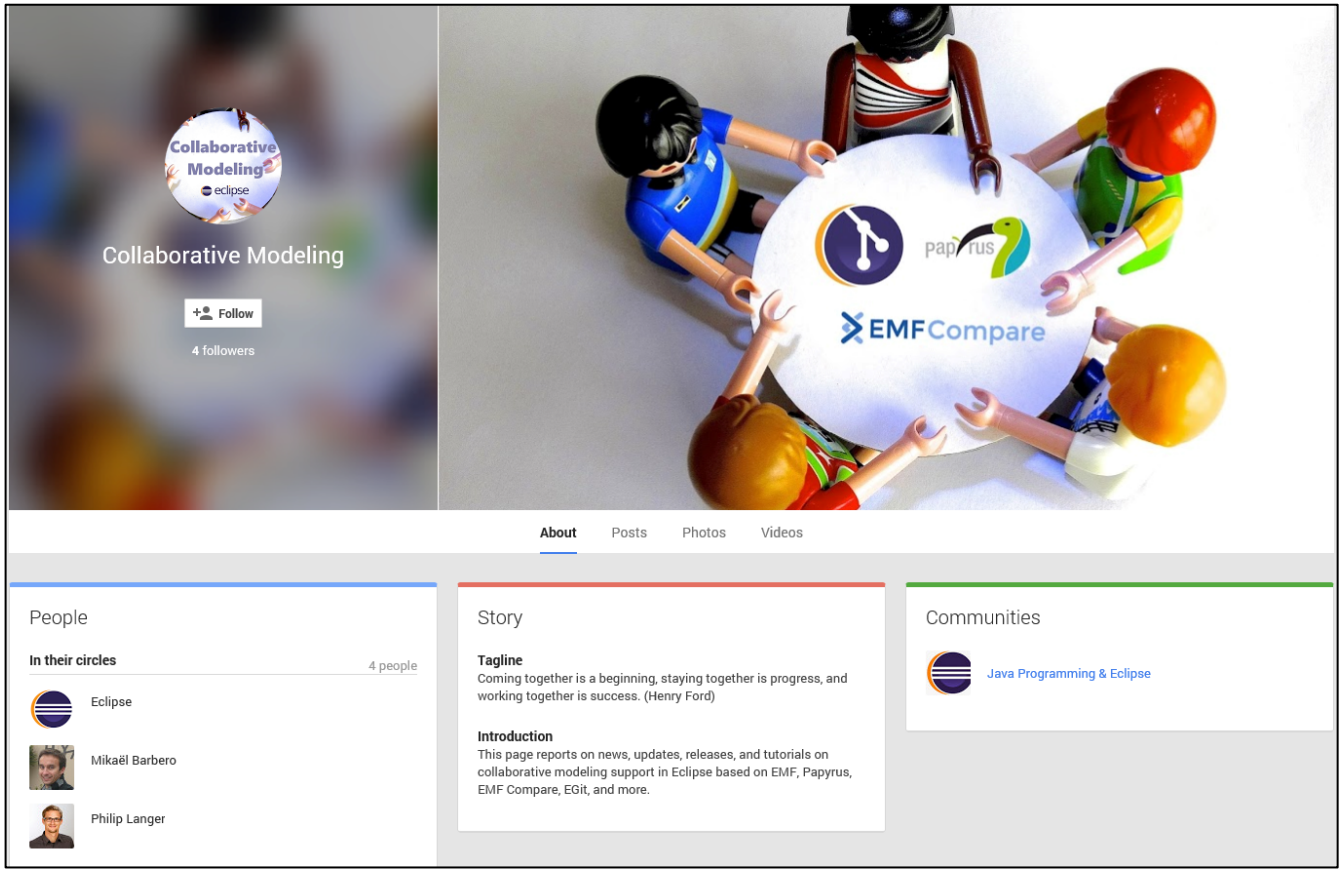
EMF Compare integrates with Papyrus

- Customization for UML
  - UML Profile support
    - Stereotypes
    - Profiles
  - Support for the other specifics of UML
    - Associations, Opaque Actions...
- Customization for GMF
  - Visualization of diagram changes
  - Diagram Layout changes
- Customization for Papyrus
  - CSS support for diagram changes
  - Special handling of Papyrus model file (di)
    - di, model, and notation are one unit
    - Team actions available on model node
  - Papyrus-specific save parameters are respected

Demo: Papyrus, EMF Compare & EGit



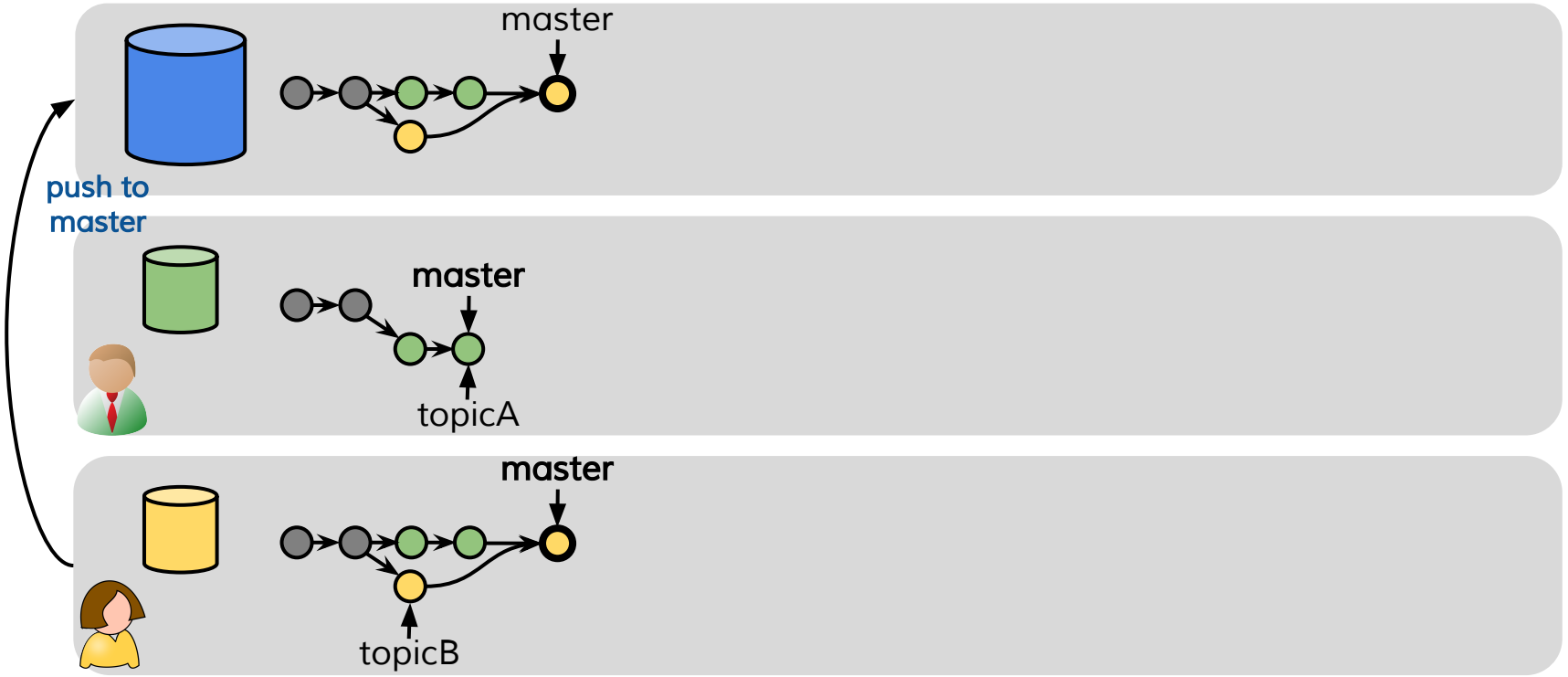
More information



http://collaborative-modeling.org

Backup slides

Example of basic collaboration workflow



Example of basic collaboration workflow