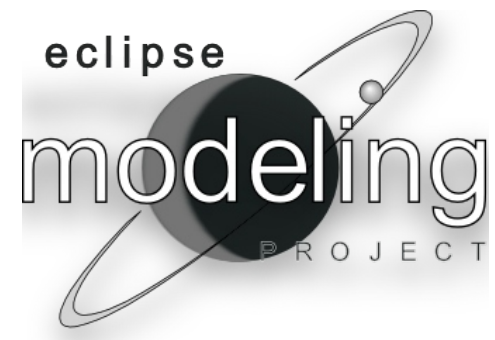
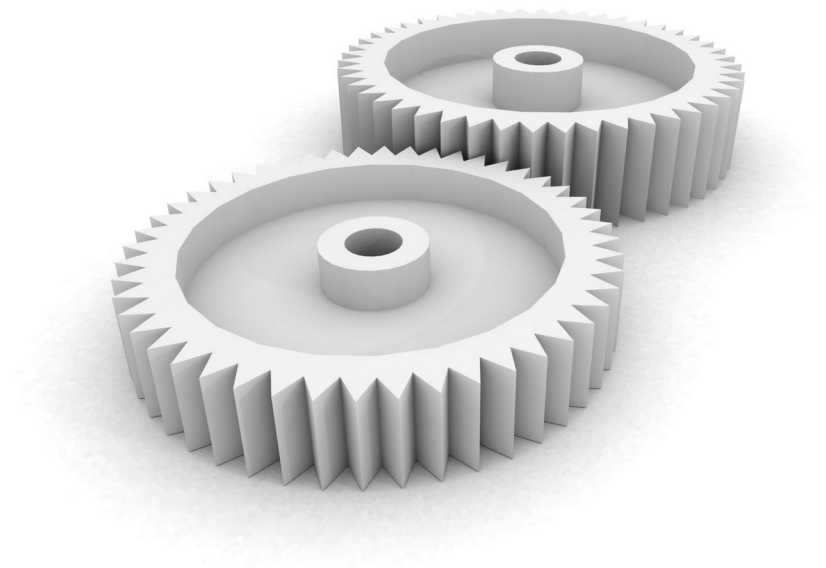


# Diff, Merge and Patch your Models

Cédric Brun  
Obeo, France

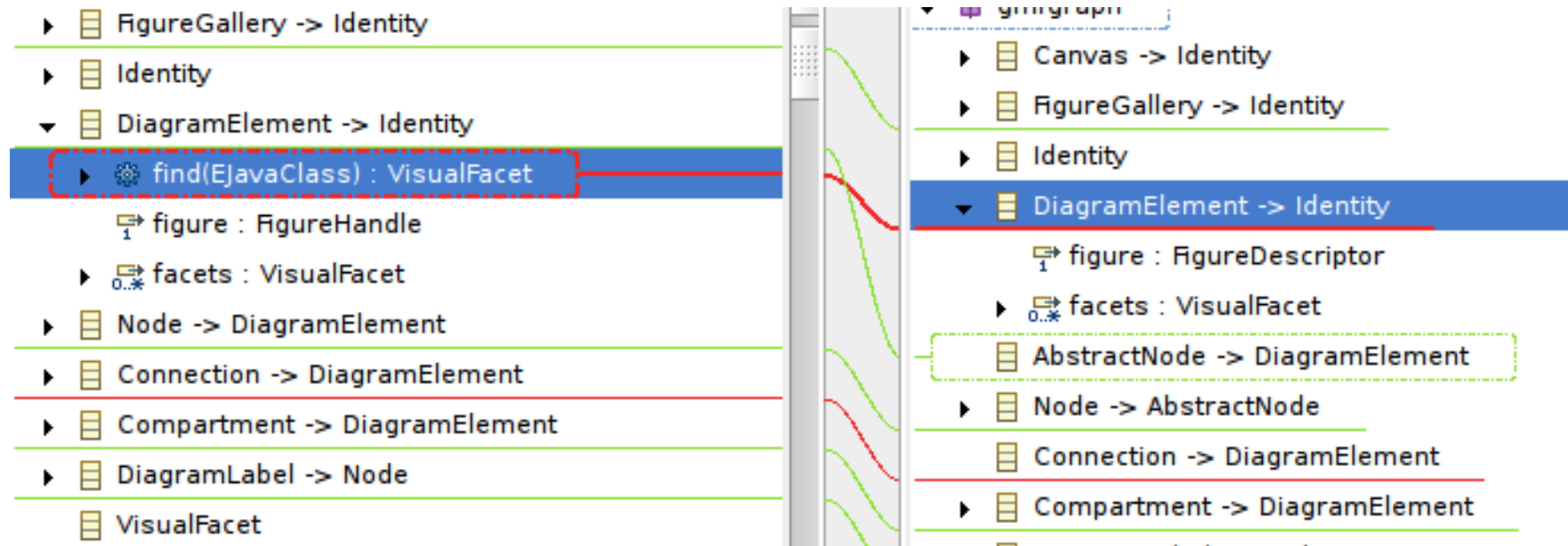


# Component of **EMF**

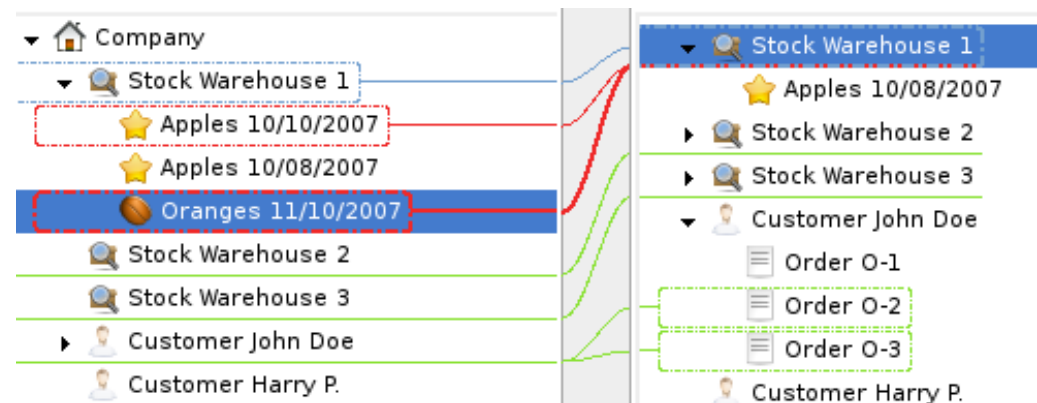
- Stable API
- pure Java
- Domain-model agnostic
- Extensible



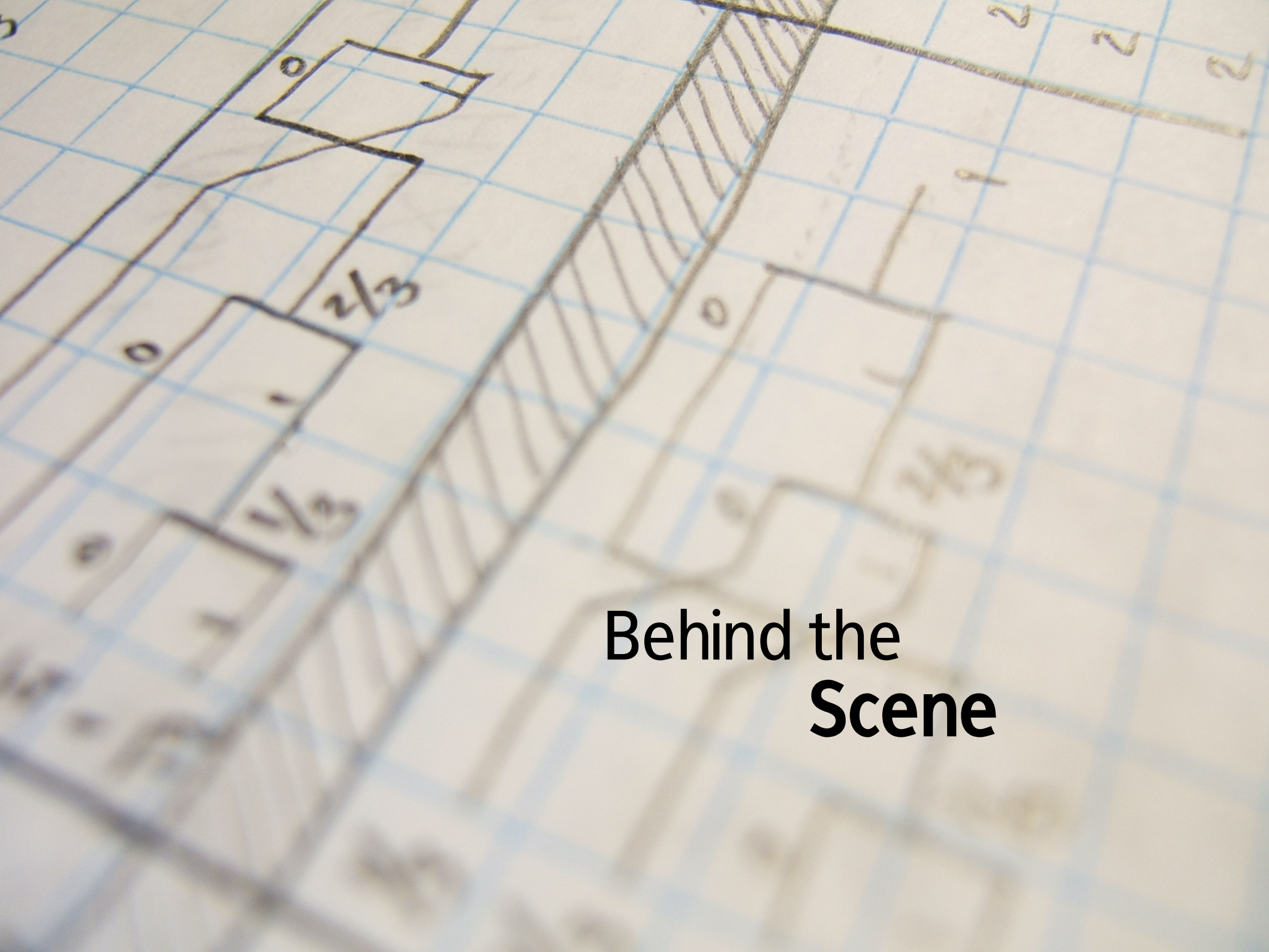
# in action!



- SVN, CVS, GIT
- UML, EMF, DSL's
- History, Compare, Merge

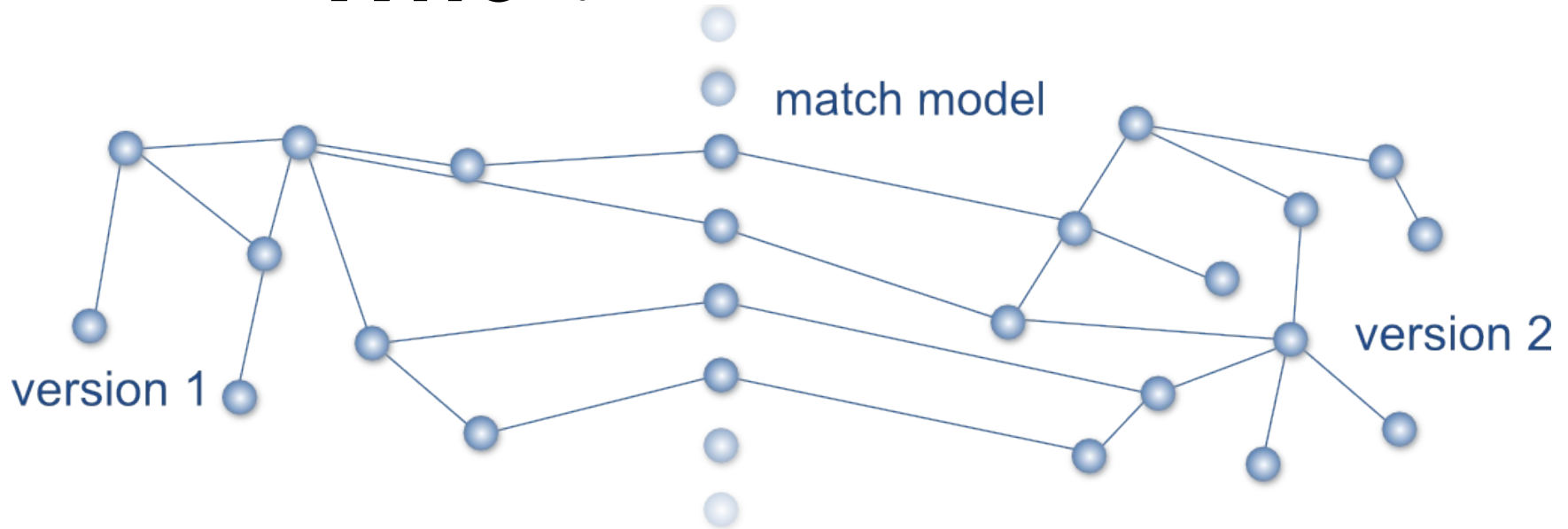




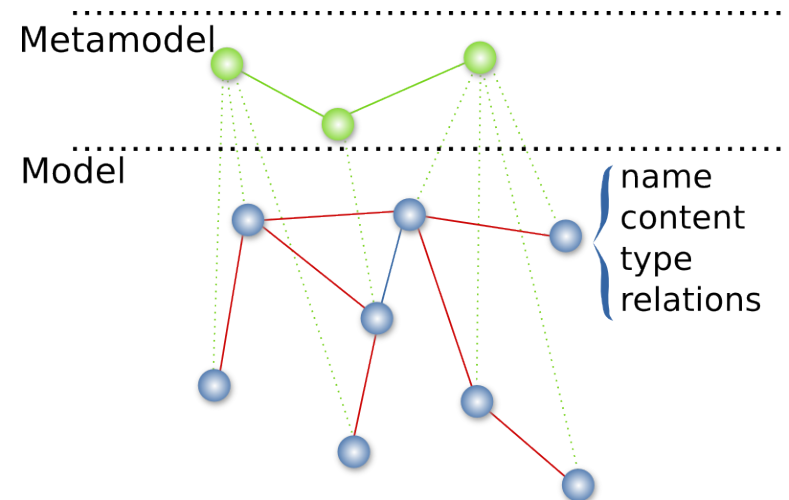


Behind the  
Scene

# Who is Who ?

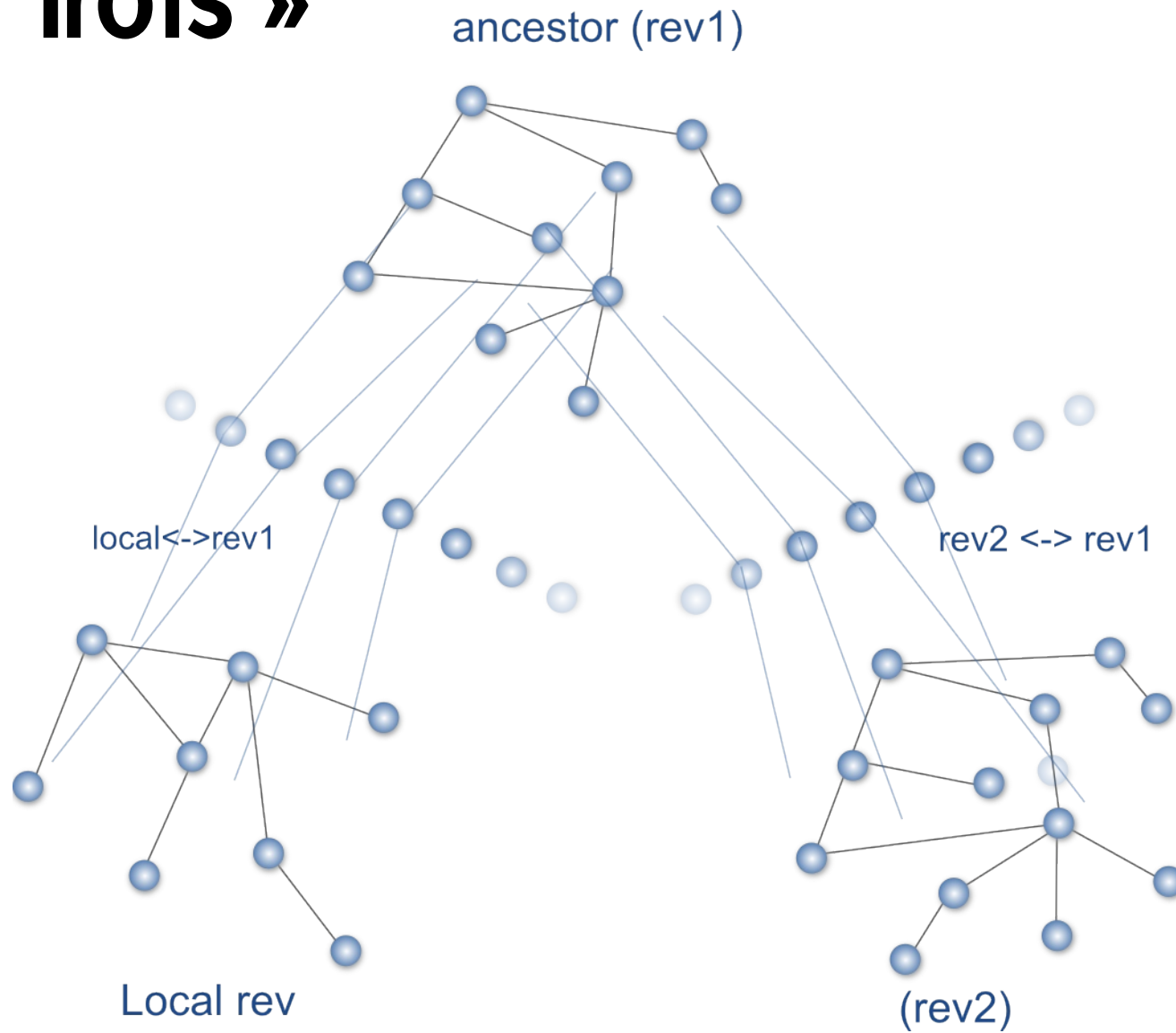


generic match engine



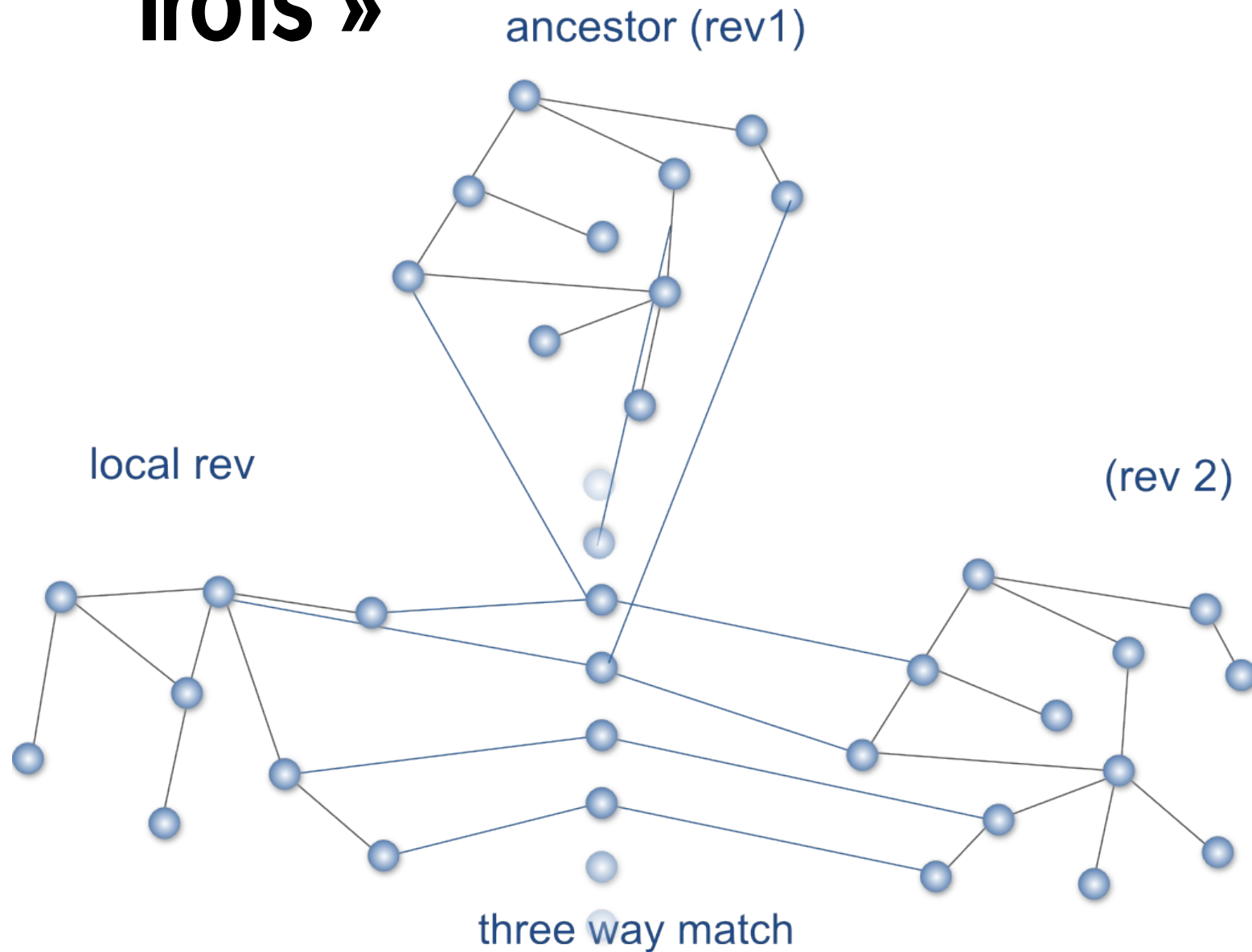
- ▼ ◆ Match Model /resource/org.eclipse.emf.compare.test
- ▼ ◆ Match2 Elements 0.9981769904490151
  - ▶ ◆ Match2 Elements 1.0
  - ▶ ◆ Match2 Elements 1.0
  - ▶ ◆ Match2 Elements 1.0

# « Ménage à Trois »

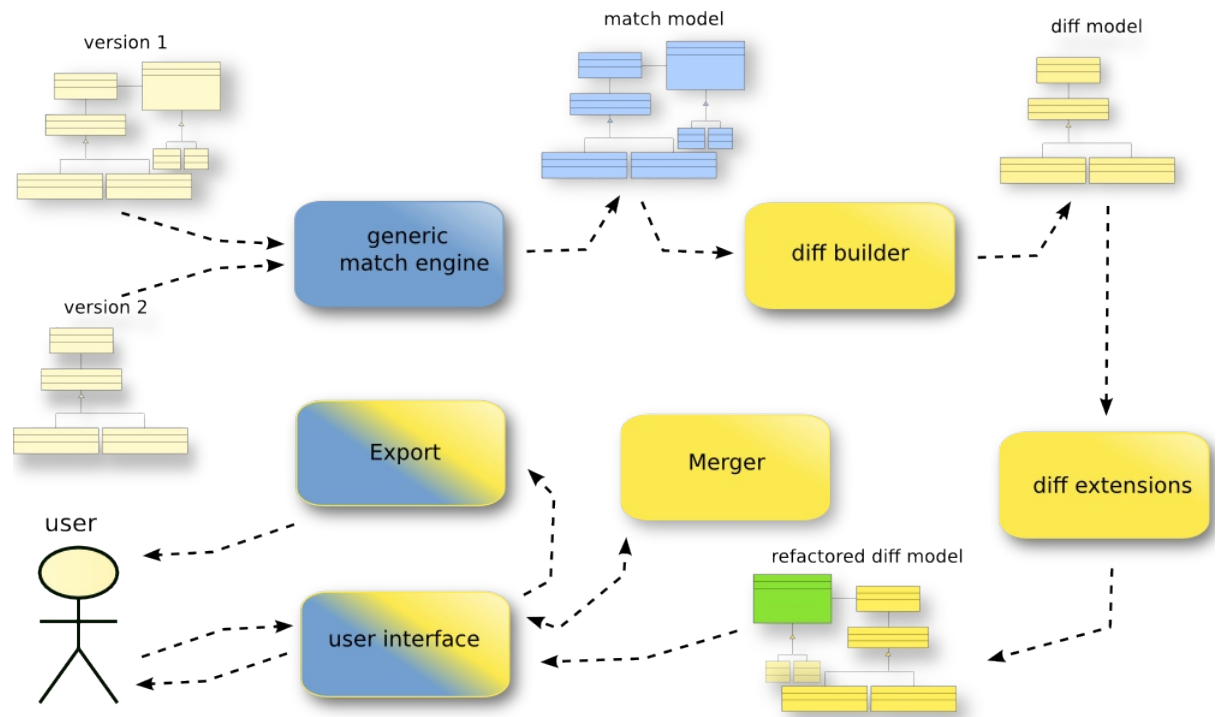




# « Ménage à Trois »



# Reconstructing the past



- ▼ 8 differences in resource library.uml
- ▼ 8 change(s) in model
  - ▼ 8 change(s) in <Model> Library
    - ▼ 6 change(s) in <Package> Business
      - ▼ 3 change(s) in <Class> Member
        - <Property> address : String has been added
        - <Property> isManager : Boolean has been added
        - <Property> address : String has been remotely added
      - > 2 change(s) in <Class> Book
        - <Data Type> Boolean has been added
    - ▼ 2 change(s) in <Package> Feature
      - <Use Case> Buy a book has been added
      - <Actor> Manager has been added



# What's cooking ?



- ResourceSet wide matching
- Fragmented models handling
- Diff Model export
  
- Match Scoping \*
- Model Independant Diff \*

# Thanks

A photograph of a total solar eclipse taken from space. The sun is a bright, glowing orb in the center, with its corona visible as a white, wispy halo. The Earth's horizon is a curved line below the sun, showing a thin blue layer of the atmosphere. The background is the deep black of space.

- EMF newsgroup and mailing list
- #eclipse-modeling on freenode, meet **cbrun** and **Kellindil**
  - <http://www.eclipse.org/modeling/emf?project=compare>
  - [http://wiki.eclipse.org/index.php/EMF\\_compare](http://wiki.eclipse.org/index.php/EMF_compare)