

TeamWork with models

Compare and Merge with EMF Compare in Galileo

Cédric Brun

cedric.brun@obeo.fr

Obeo
France



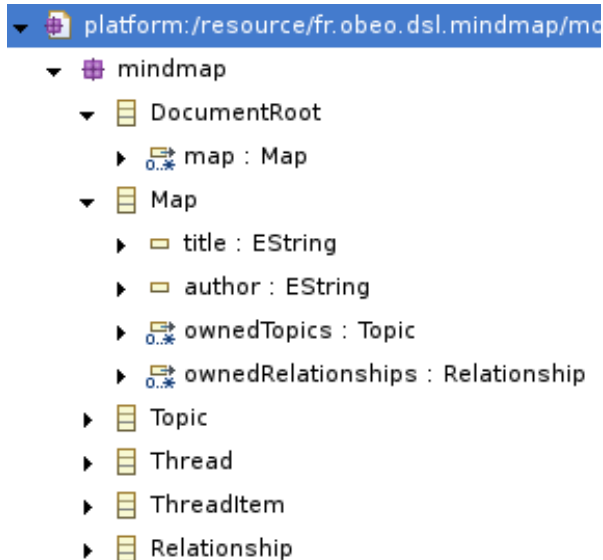
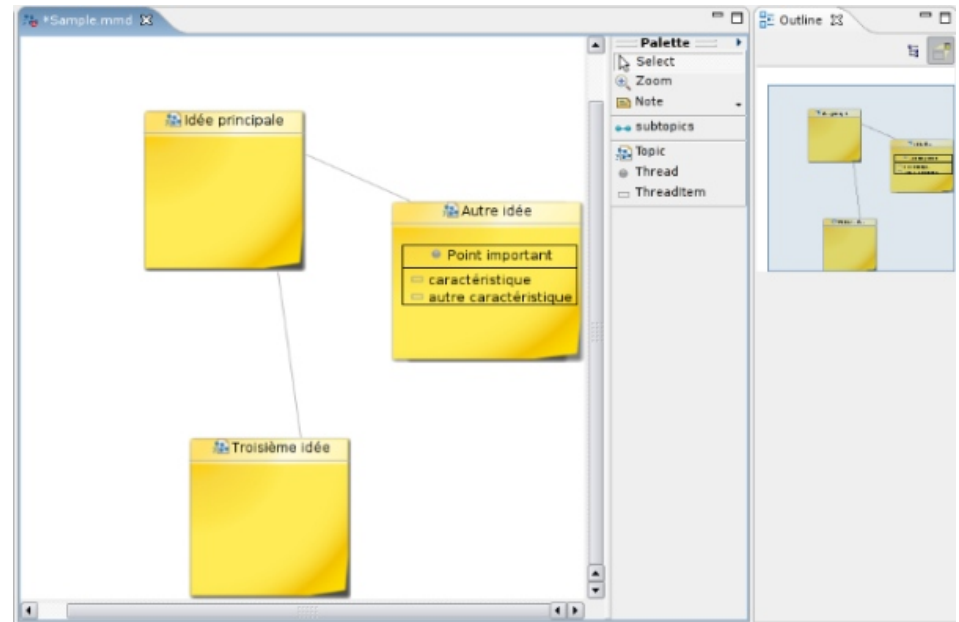
- Eclipse **Strategic Member**
- Eclipse Modeling Project
 - Model to Text : Acceleo
 - Model to Model : ATL
 - **EMF Compare**
 - Extended Editing Framework
 - Papyrus UML
- Eclipse STP – SCA

Models matters ...



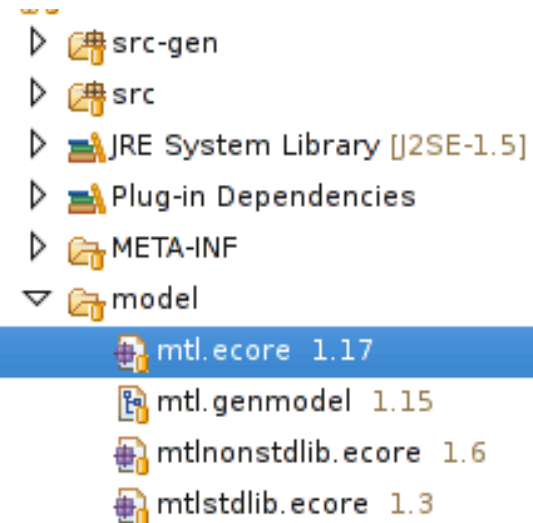
Eclipse Modeling project

- Modeling, Meta-modeling
- Tooling, Editors and modelers



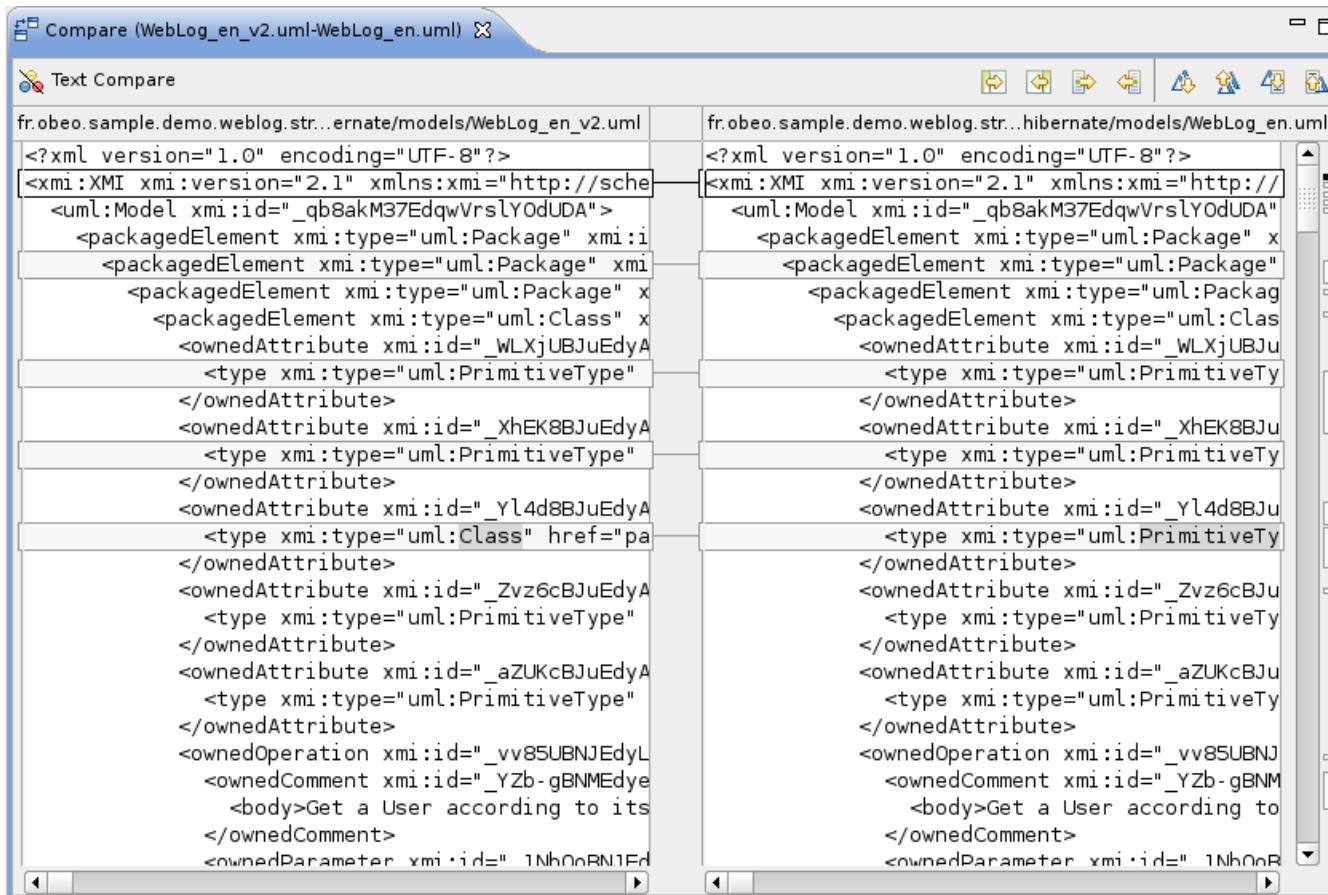
Models are used to :

- Capture and structure knowledge
- Scaffold applications
 - Code generation
 - Model transformation
- Analyse legacy applications
- Normalization and interoperability



And many more useful things
(see all the modeling projects !)

As such, models evolves

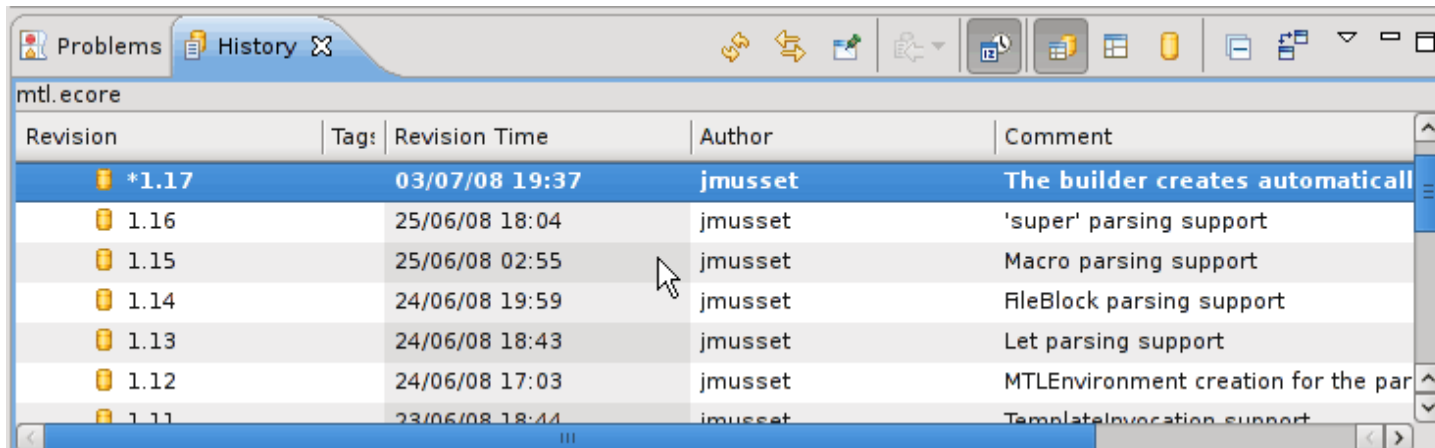


```
fr.obeo.sample.demo.weblog.str...ernate/models/WebLog_en_v2.uml
fr.obeo.sample.demo.weblog.str...hibernate/models/WebLog_en.uml

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  </ownedComment>
  <ownedParameter xmi:id="_1Nh0oRN1Ed
```

Team support

- Compare, merge support
- SCM integration
- History analysis



The screenshot shows the Eclipse IDE's History view for the file 'mtl.ecore'. The view displays a table of revisions with columns for Revision, Tag, Revision Time, Author, and Comment. The current revision is +1.17, dated 03/07/08 19:37, by jmusset, with the comment 'The builder creates automaticall'. Other revisions range from 1.11 to 1.16, all by jmusset, with various comments related to parsing support.

Revision	Tag	Revision Time	Author	Comment
+1.17		03/07/08 19:37	jmusset	The builder creates automaticall
1.16		25/06/08 18:04	jmusset	'super' parsing support
1.15		25/06/08 02:55	jmusset	Macro parsing support
1.14		24/06/08 19:59	jmusset	FileBlock parsing support
1.13		24/06/08 18:43	jmusset	Let parsing support
1.12		24/06/08 17:03	jmusset	MTLEnvironment creation for the par
1.11		23/06/08 18:44	jmusset	TemplateInvocation support

Galileo brings ...



EMF Compare 1.0.x

- End User
 - Metamodel agnostic diff/merge supporting multiple resources -> [demo](#)
 - Platform Team API integration (CVS, SVN..) -> [demo](#)
 - EPatch : capturing changes and applying/un-applying them later -> [demo](#)
 - Graphical modelers integration (draft) -> [demo](#)
- Developer
 - Extensible diff model export -> [demo](#)
 - Match/Diff algorithms extension
 - Standalone/RCP support
 - Developer guide
 - Graduation from incubation status

It's just a first step !

- Developers
 - Incremental processing
 - Non regression testing (ATL..)

- Research
 - Graphical Comparison (*Tobias Jähnel - University of Applied Science Nuernberg*)
 - Patch model (*Davide Di Ruscio - Università degli Studi dell' Aquila*)
 - Selective regression testing (*Leila Naslavsky – Donald Bren School of Information and Computer Science*)
 - Semantic conflicts and refactoring detection (*Philip Langer - Vienna University of Technology*)

Thanks for your attention

- EMFT newsgroup and mailling list
- #eclipse-modeling on freenode, meet **cbrun** and **Kellindil**
- Links
 - <http://www.eclipse.org/modeling/emft?project=compare>
 - http://wiki.eclipse.org/index.php/EMF_Compare

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