Bitter GMF or
How We did UML with GMF

Short Talk

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GMF-based Editors

- The Eclipse Graphical Modeling Framework (GMF) provides a generative component and runtime infrastructure for developing graphical editors based on EMF and GEF.

- UML2Tools from Model Development Tools Project (MDT) is a set of GMF-based editors for viewing and editing UML models.

- UML2Tools is an ultimate test for GMF
Overview

• GMF is intended to generate a core of a diagram editor

• Very specific features should be implemented by augmenting GMF:
  - GMFGen model
  - Xpand templates
  - GMFGen metamodel extension
  - Dynamic templates
  - Code modification
GMFGen model extension in UML2Tools

- Sophisticated mapping from domain to diagram
- Diagram on diagram
- Levels of details
Mapping from Domain to Diagram

One to one

One to many

Mapping changes
GMFGen Metamodel Extension
Switching notations of the element

GMFGen Model → GMFGen Metamodel extension → GMFGen Extension Model

Dynamic → New → Code
Diagram On Diagram
Summary