



HAL
open science

You need to extend your models? EMF Facet vs. EMF Profiles

Hugo Bruneliere, Philip Langer

► **To cite this version:**

Hugo Bruneliere, Philip Langer. You need to extend your models? EMF Facet vs. EMF Profiles. EclipseCon 2012 - Modeling Symposium, Mar 2012, Reston, VA, United States. hal-00688390

HAL Id: hal-00688390

<https://inria.hal.science/hal-00688390v1>

Submitted on 11 Apr 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

You need to extend your models?

EMF Facet vs. EMF Profiles

Modeling Symposium – Monday March 26th, 2012

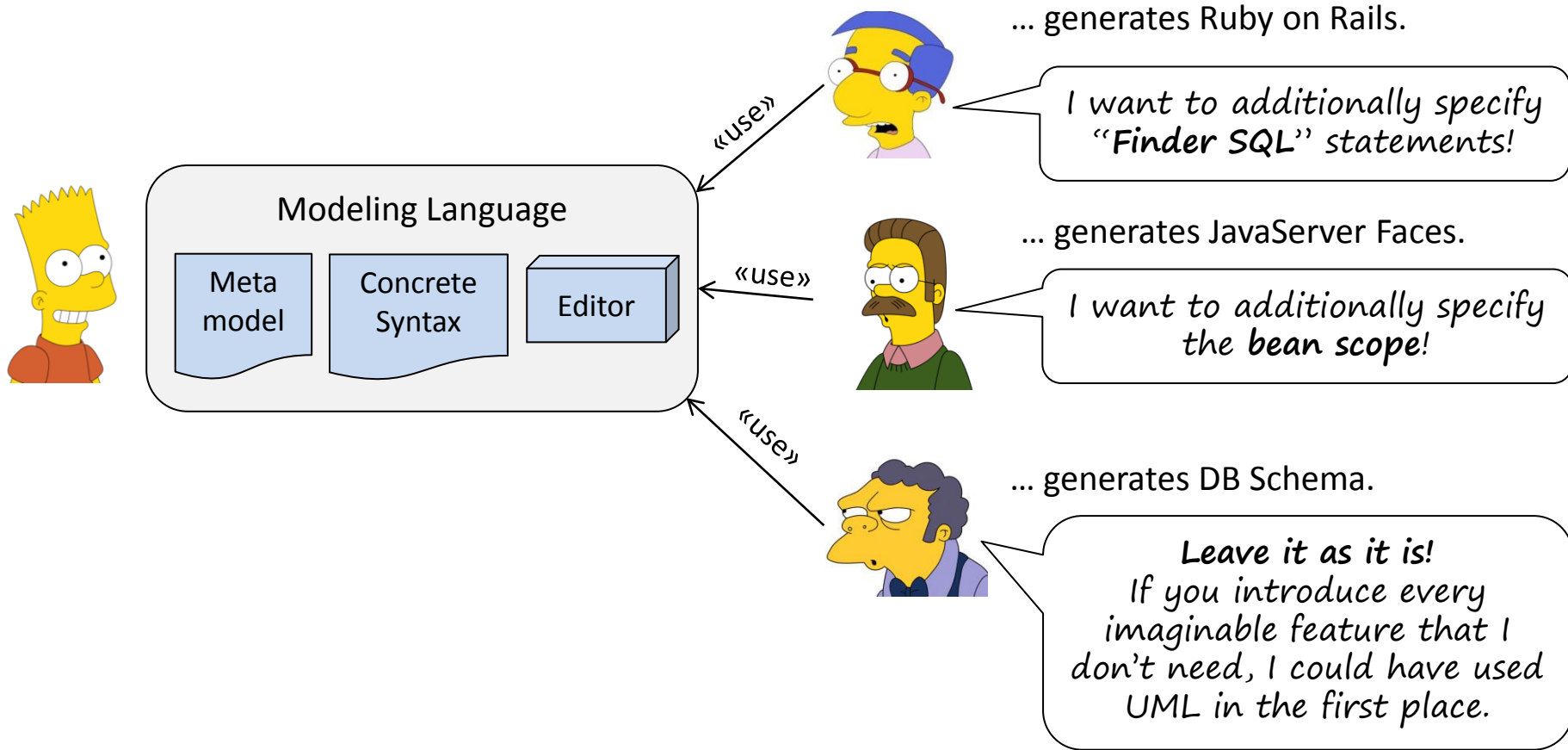
Hugo Bruneliere
hugo.bruneliere@inria.fr



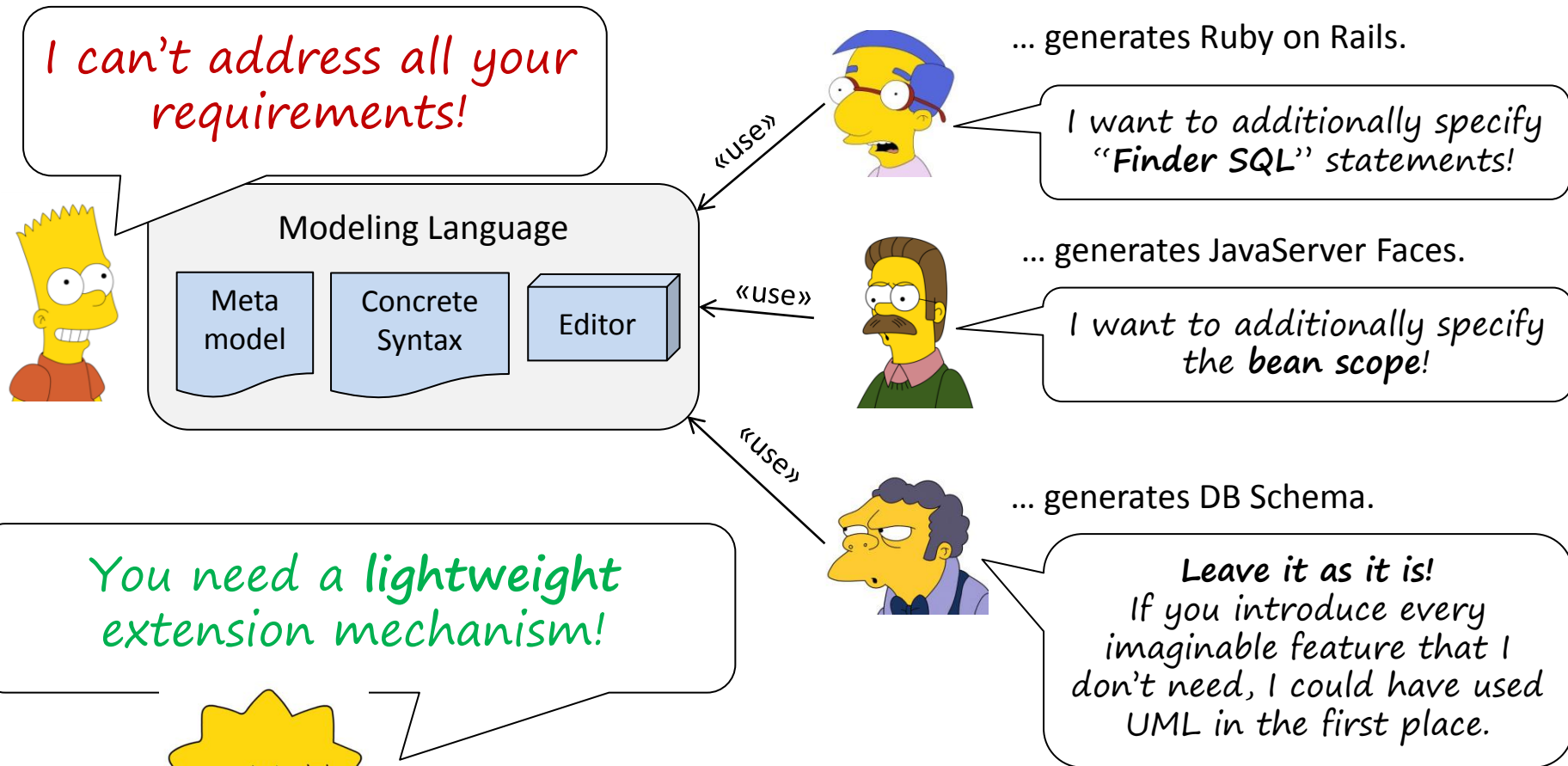
Philip Langer
langer@big.tuwien.ac.at



Why extending existing models?



Why extending existing models?



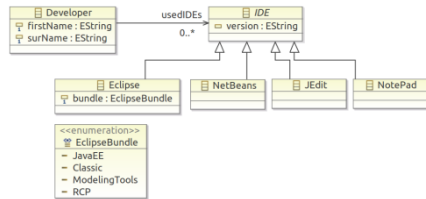
You need a lightweight extension mechanism!



Main Objectives

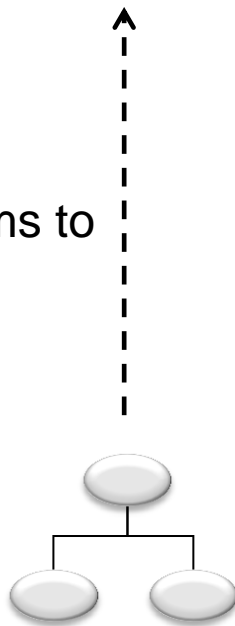
- No modification of existing models
- Adding of "concern-specific" information

EMF Facet - <http://www.eclipse.org/modeling/emft/facet/>



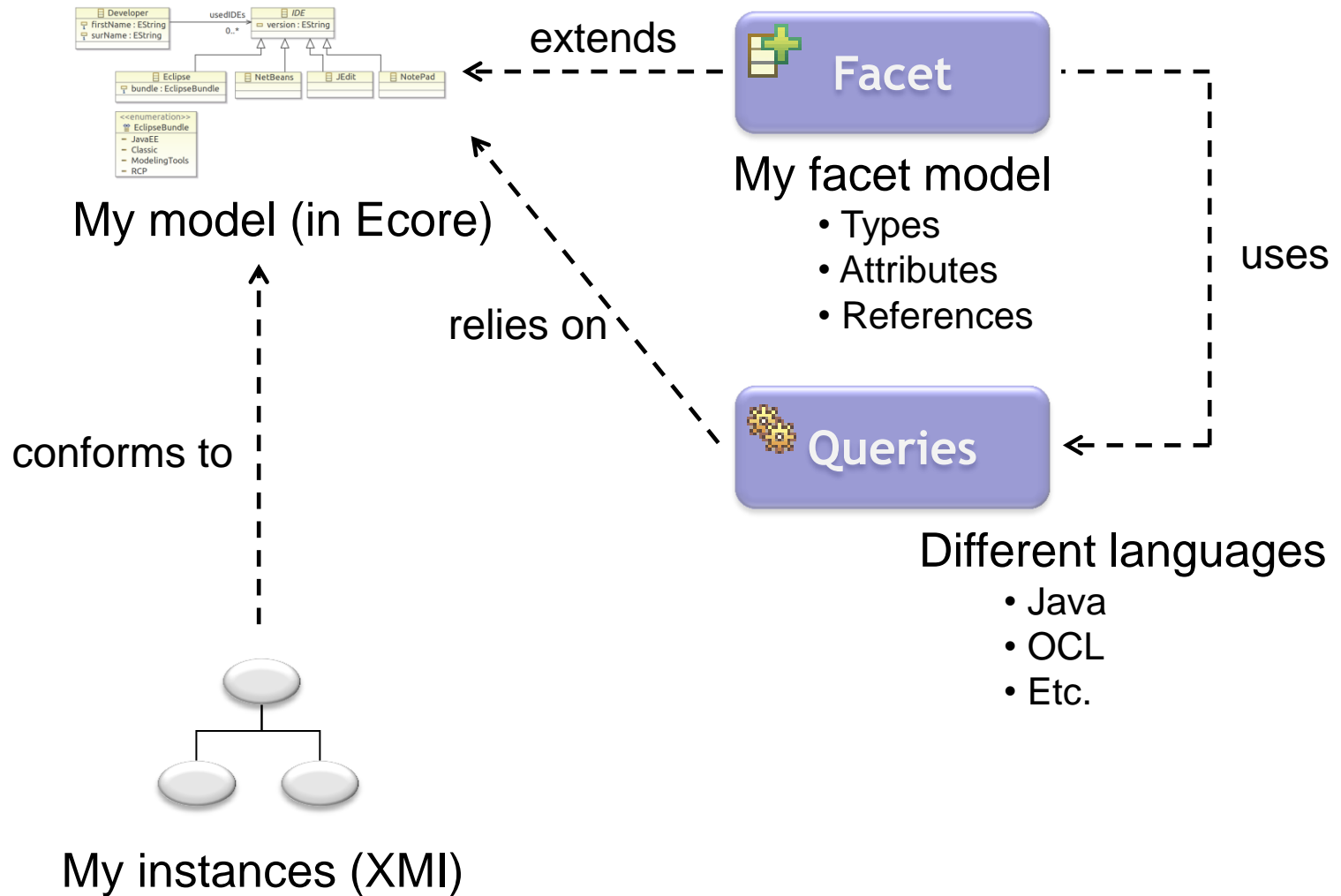
My model (in Ecore)

conforms to

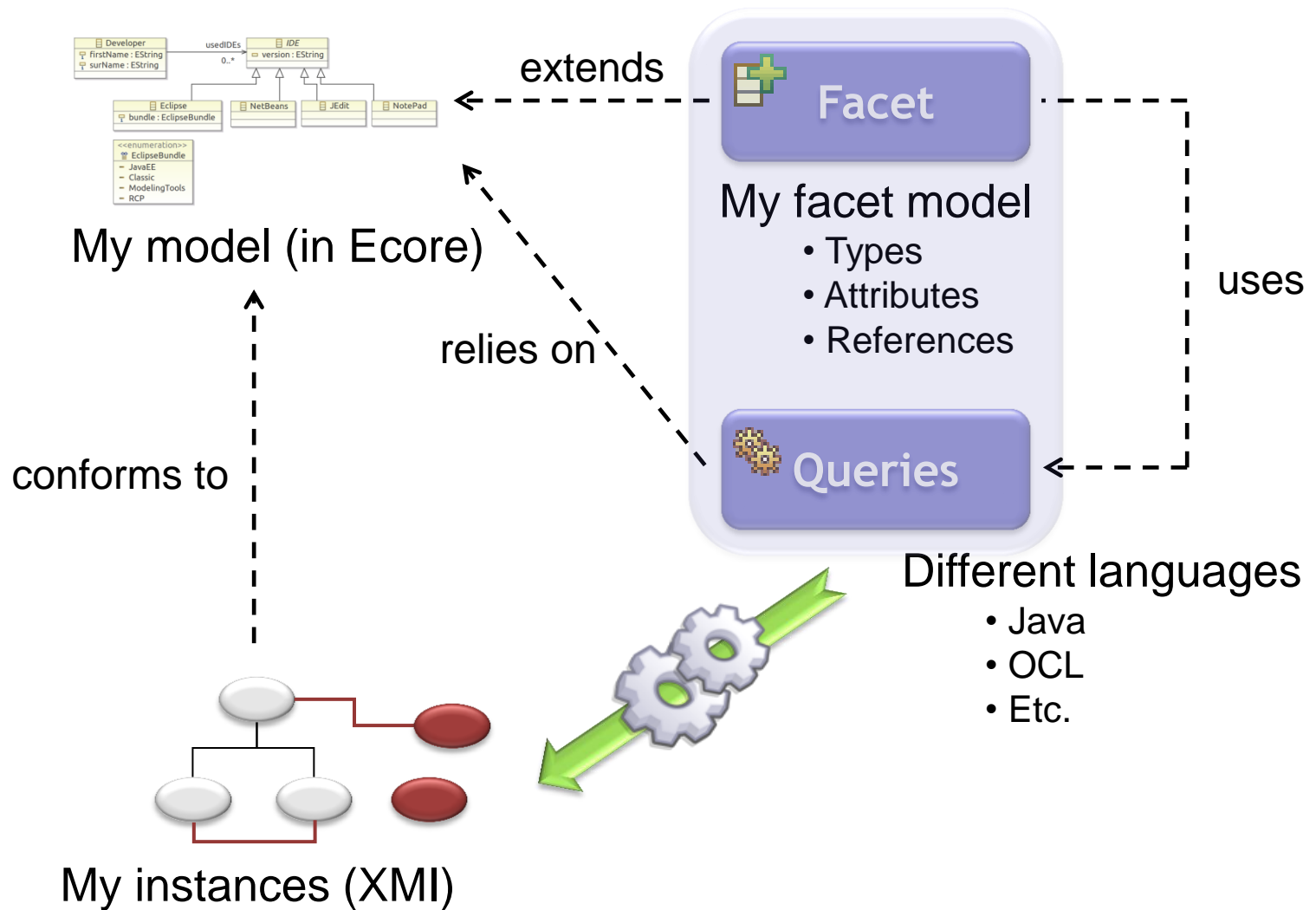


My instances (XMI)

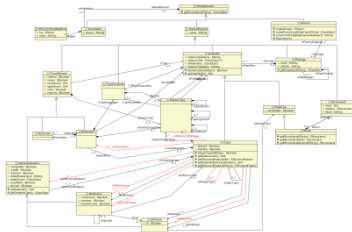
EMF Facet - <http://www.eclipse.org/modeling/emft/facet/>



EMF Facet - <http://www.eclipse.org/modeling/emft/facet/>



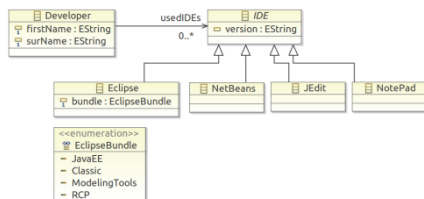
EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>



Ecore metamodel

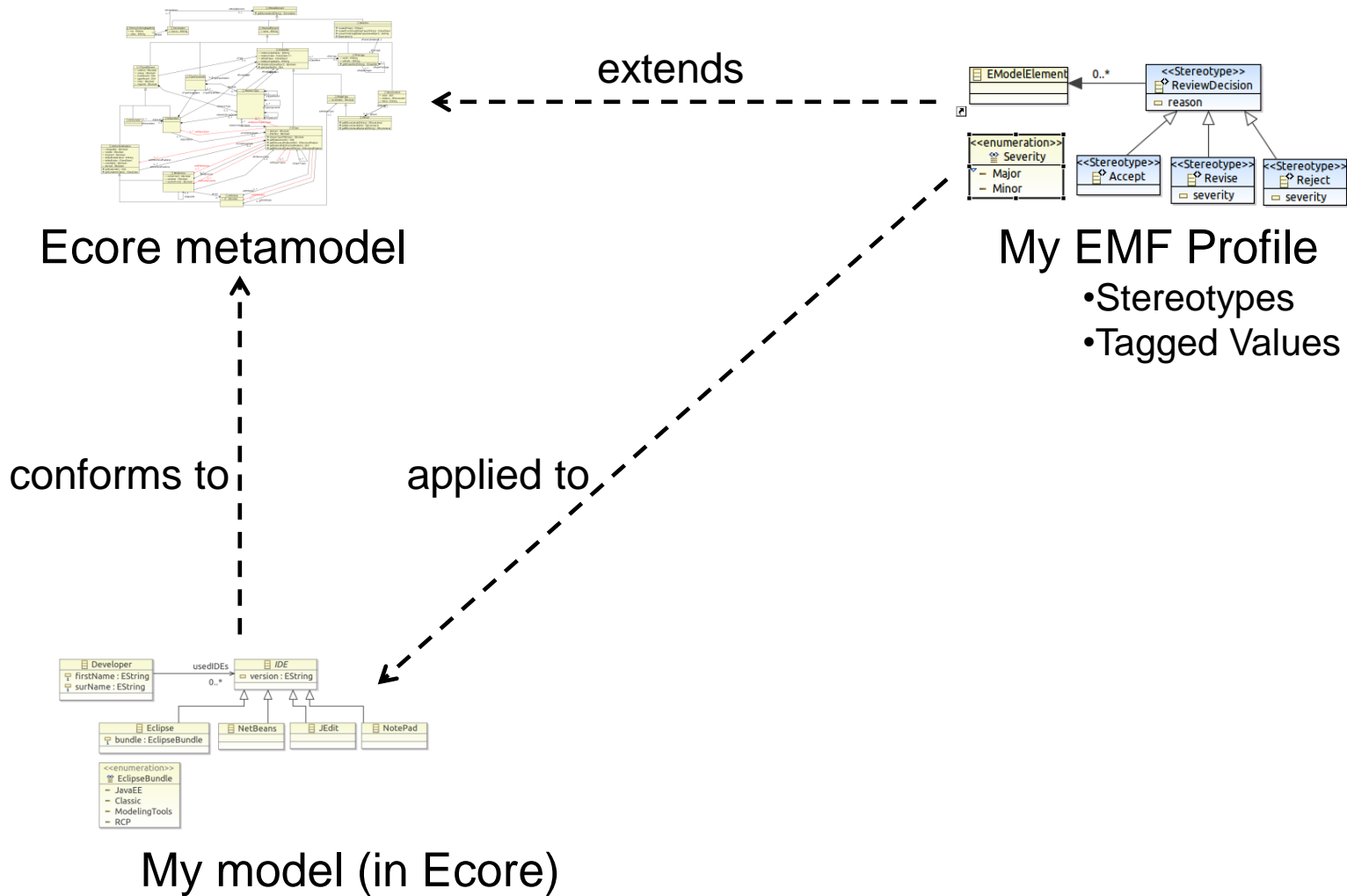


conforms to

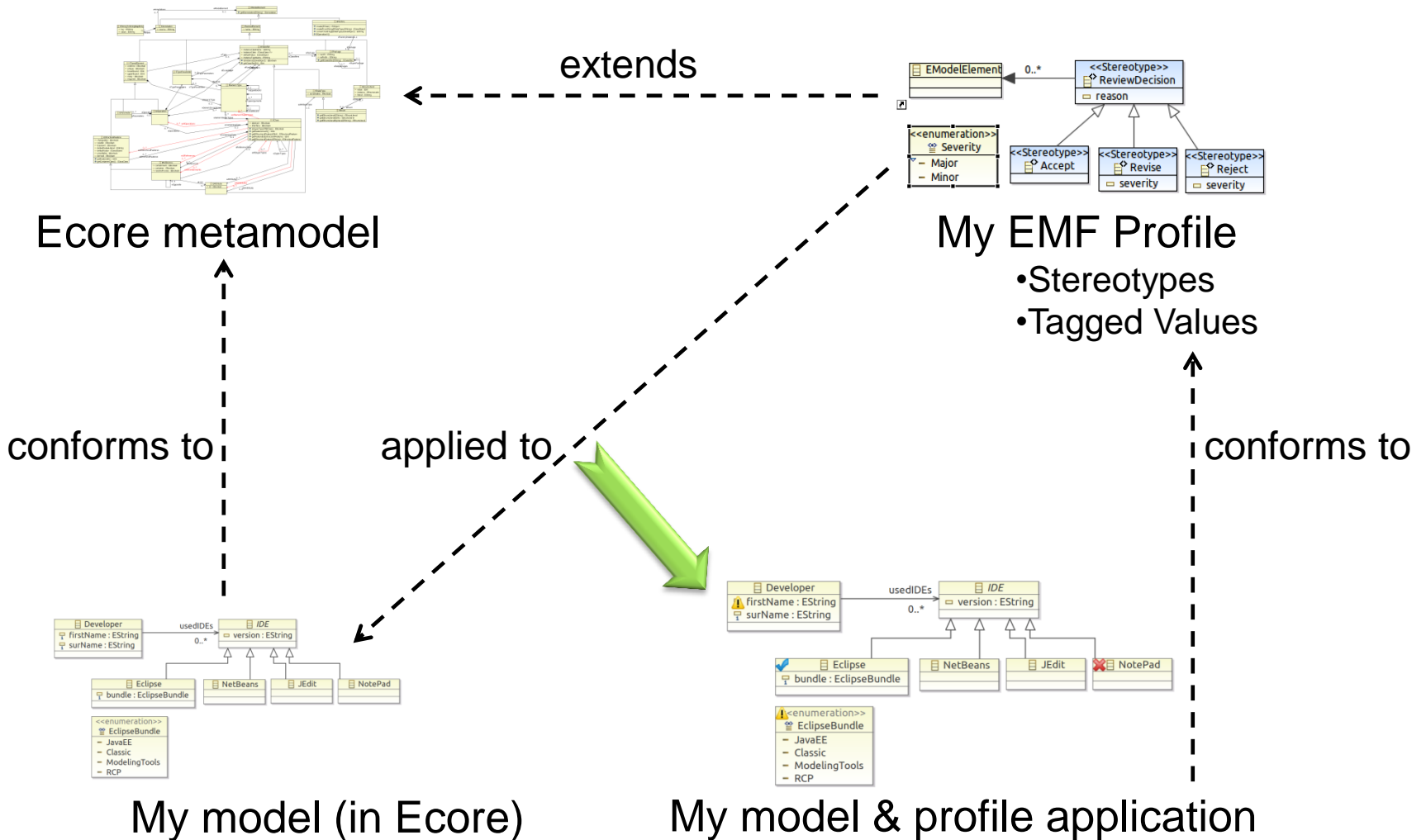


My model (in Ecore)

EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>

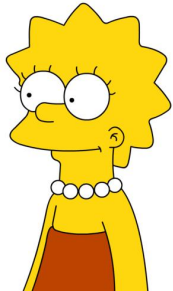
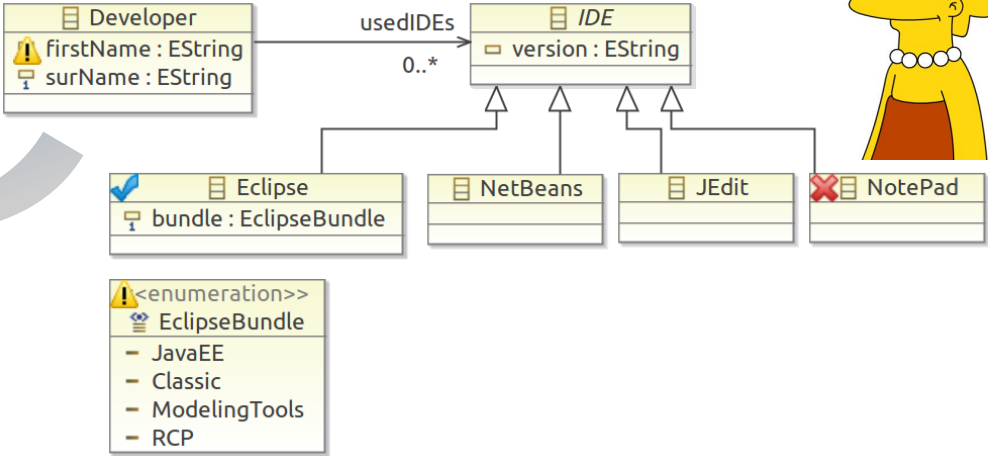
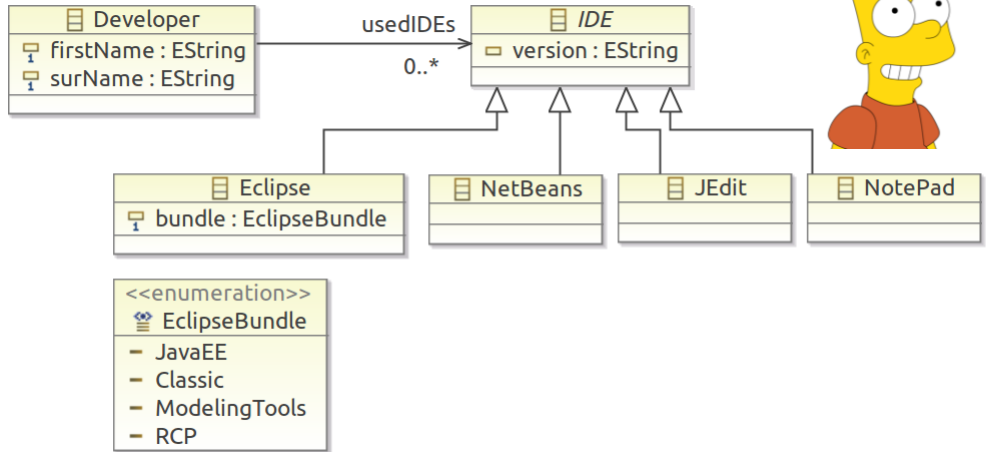


EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>



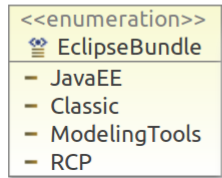
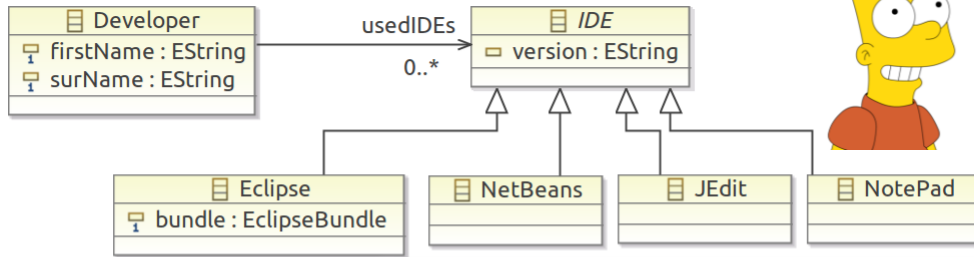
Example for demo

Review my model, Ms. "know-it-all"!

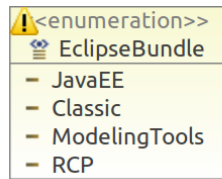
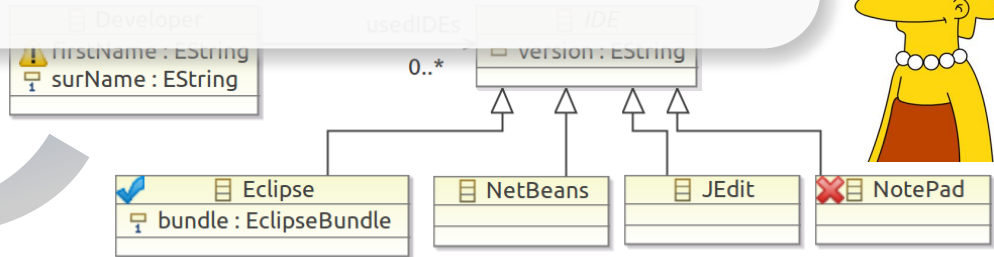
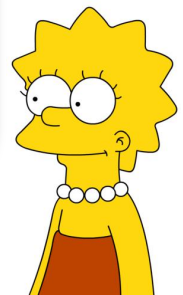


Example for demo

Review my model, Ms. "know-it-all"!



- Without *polluting* the original instances!
- Without *affecting* the Ecore model!
- But still in a *structured* way!
- Easily *processable* by humans and tools!



Model Extension

EMF Facet	EMF Profiles
Adding of new model elements	Annotating of existing model elements
Support for types, attributes, references	Support for types, attributes, references
Dynamically calculated (via model queries)	Statically defined (via model editors)
Customization of tree view	Customization of diagram view