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

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► **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-00688390>

Submitted on 11 Apr 2023

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You need to extend your models?

EMF Facet vs. EMF Profiles

Modeling Symposium – Monday March 26th, 2012

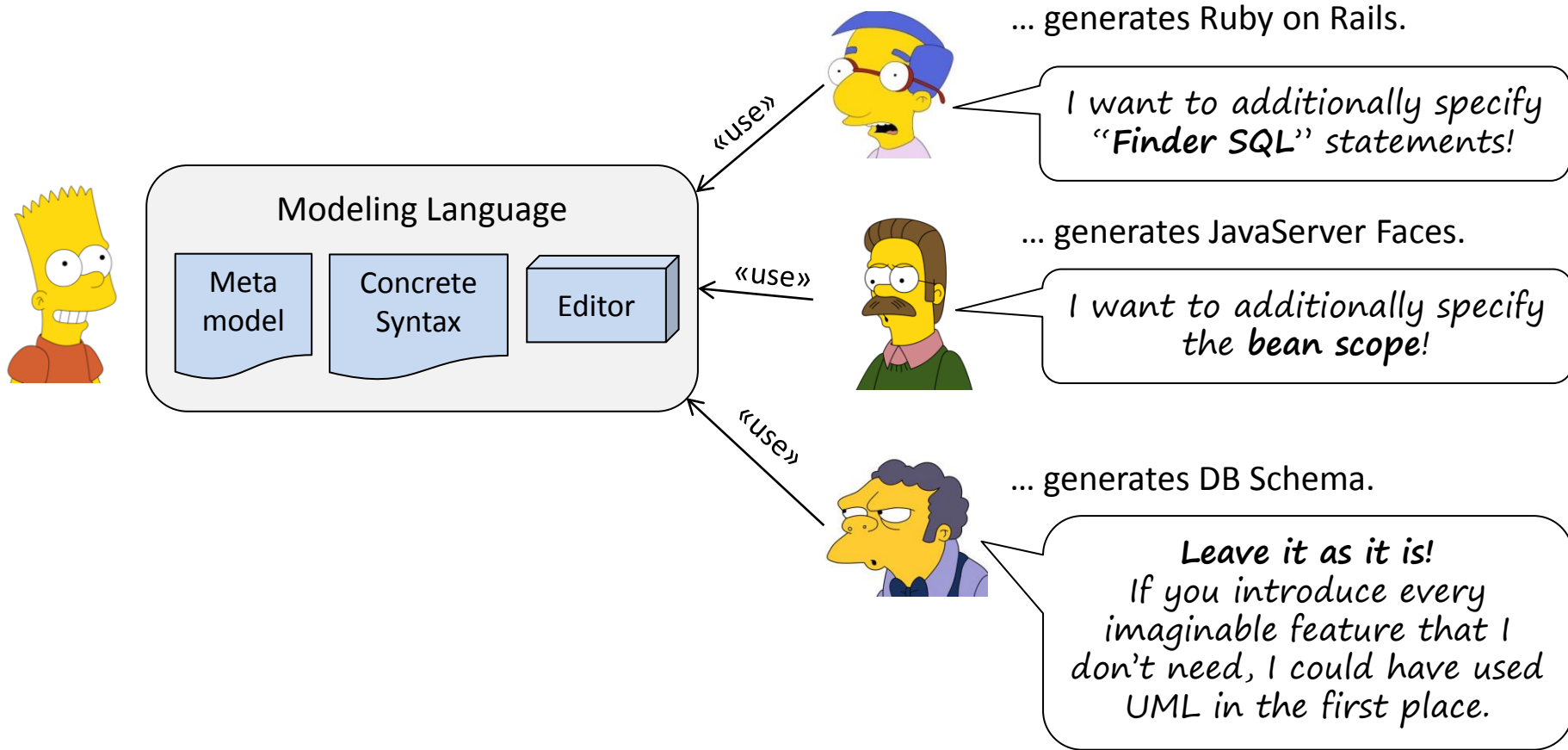
Hugo Bruneliere
hugo.bruneliere@inria.fr



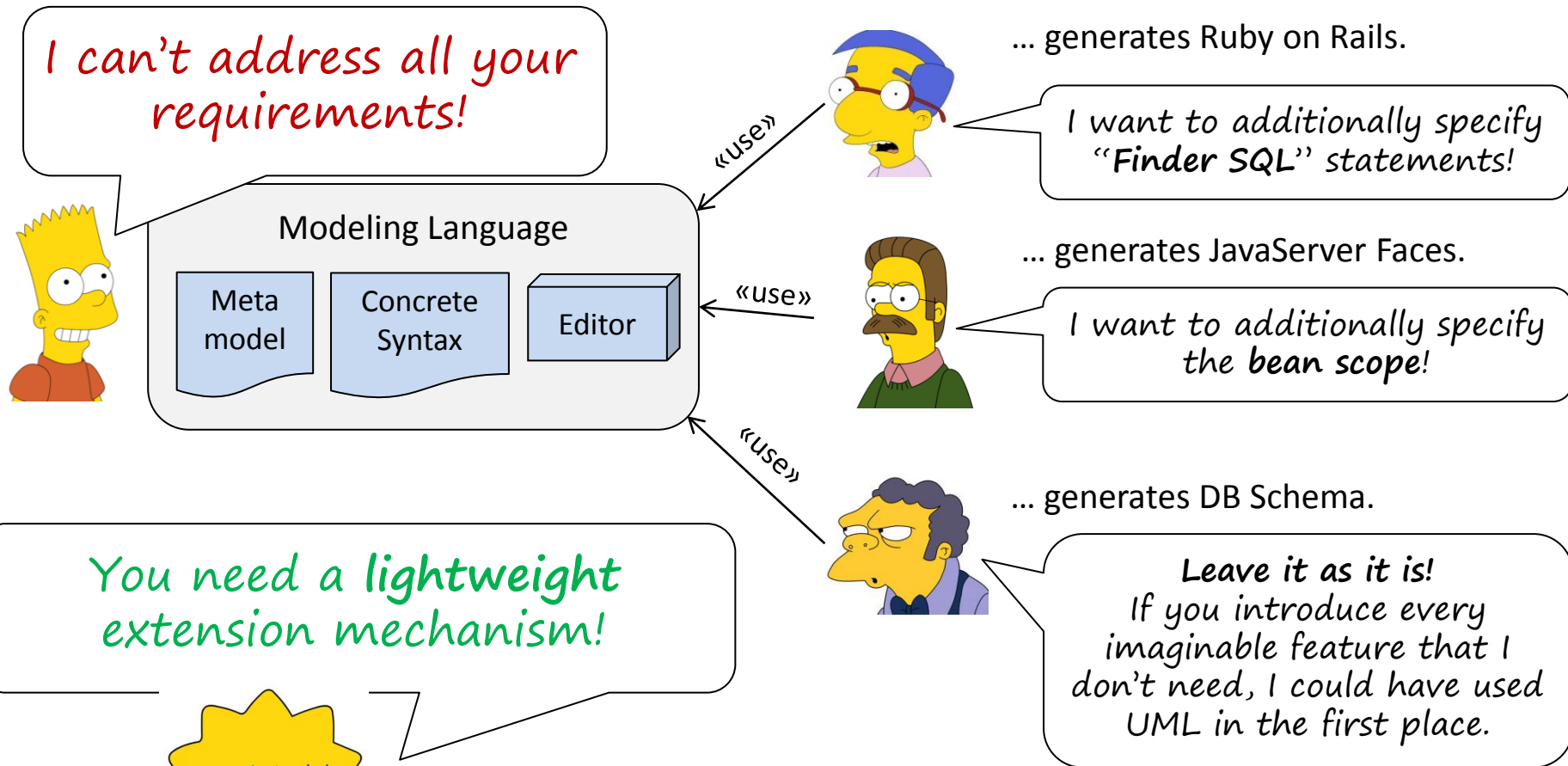
Philip Langer
langer@big.tuwien.ac.at



Why extending existing models?



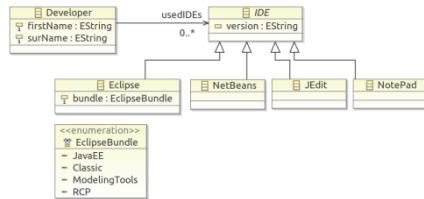
Why extending existing models?



Main Objectives

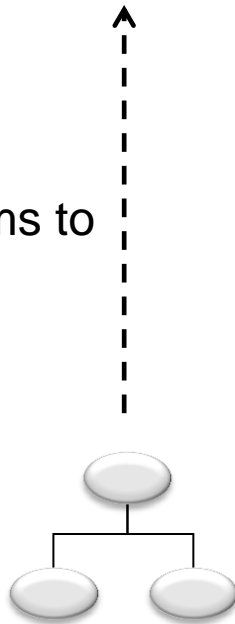
- No modification of existing models
- Adding of "concern-specific" information

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



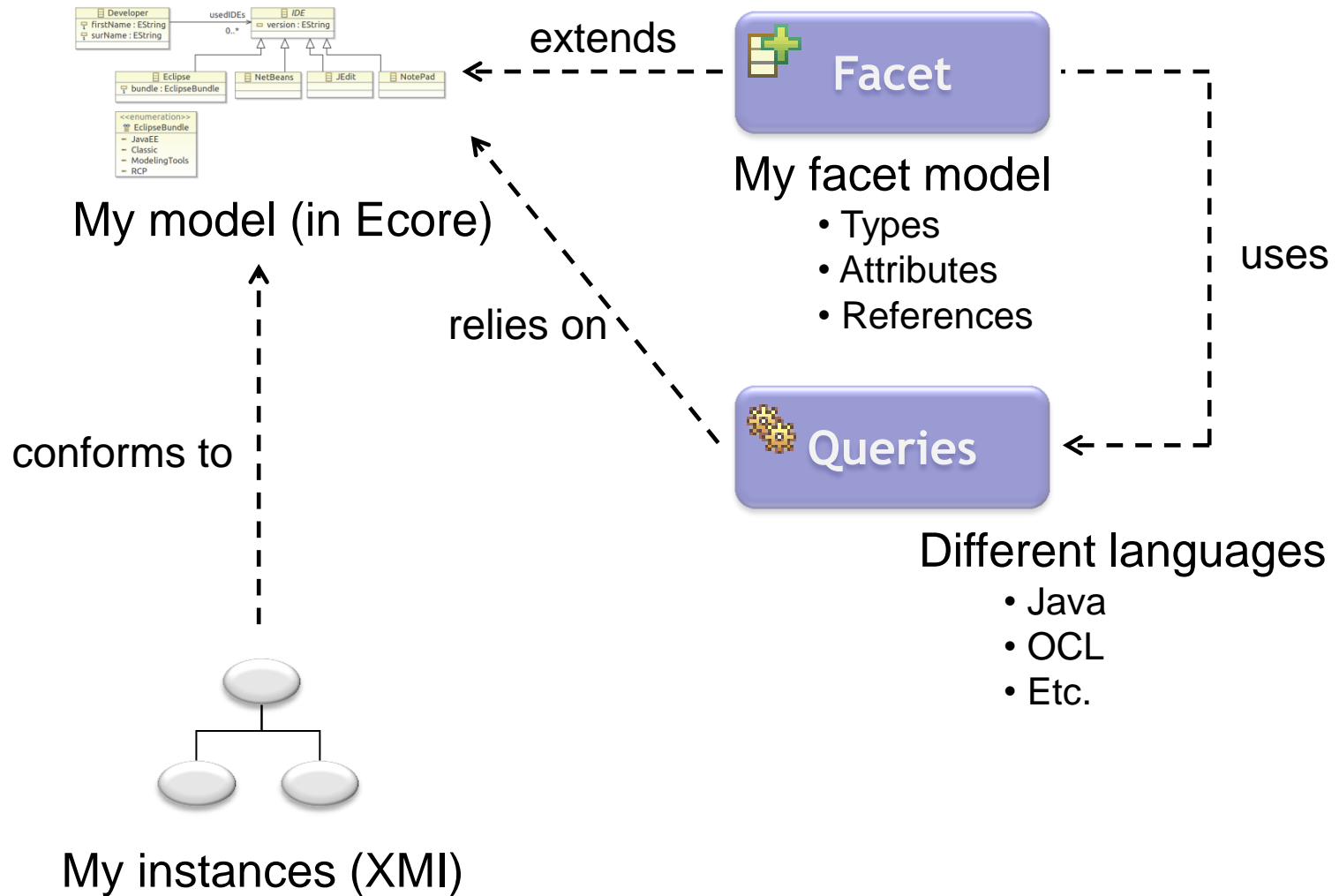
My model (in Ecore)

conforms to

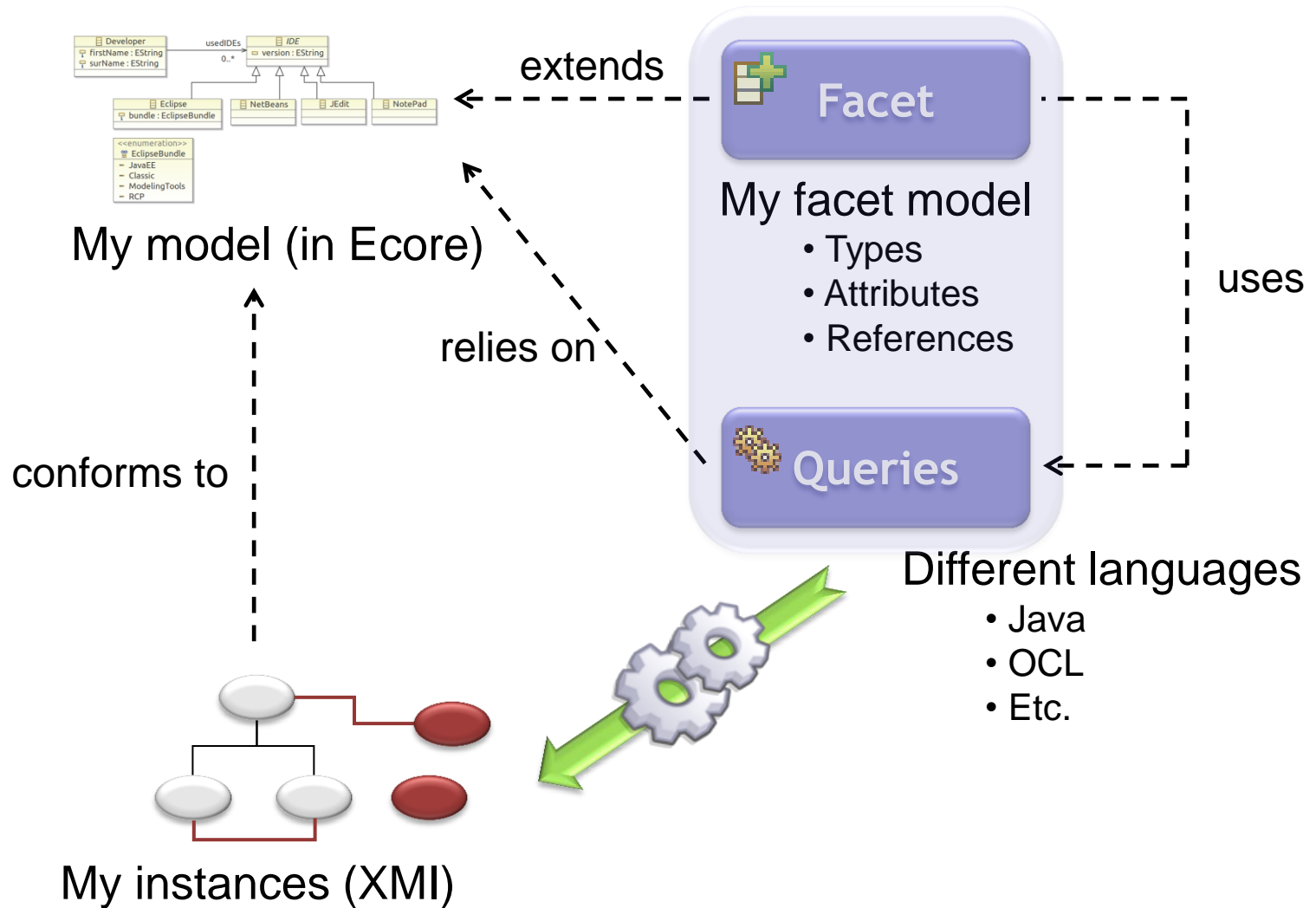


My instances (XMI)

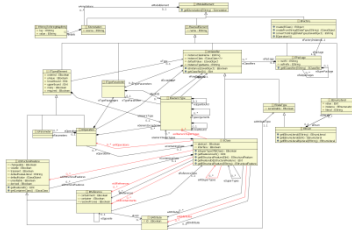
EMF Facet - <http://www.eclipse.org/modeling/emft/facet/>



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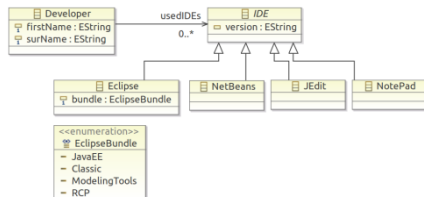
EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>



Ecore metamodel

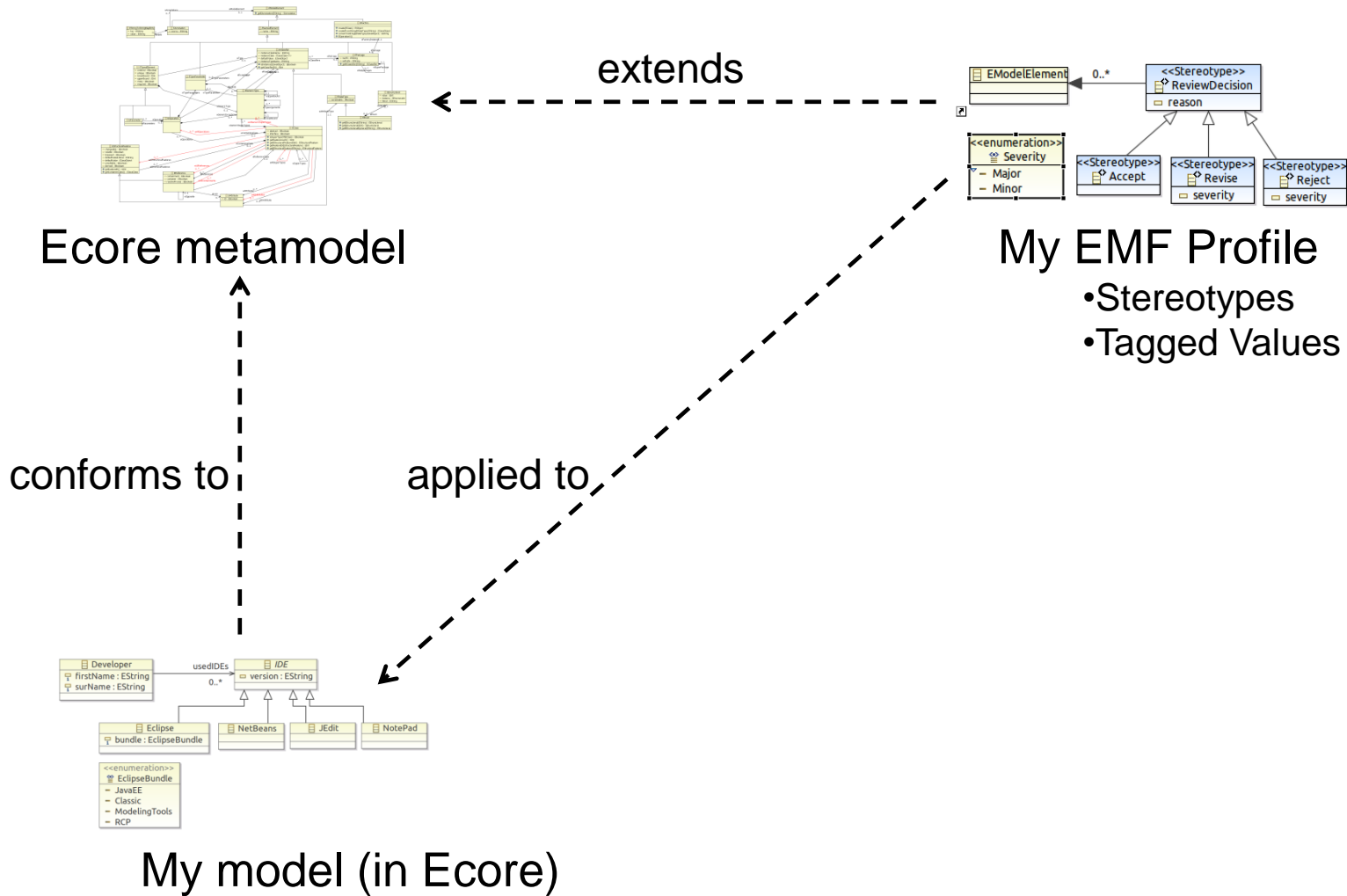


conforms to

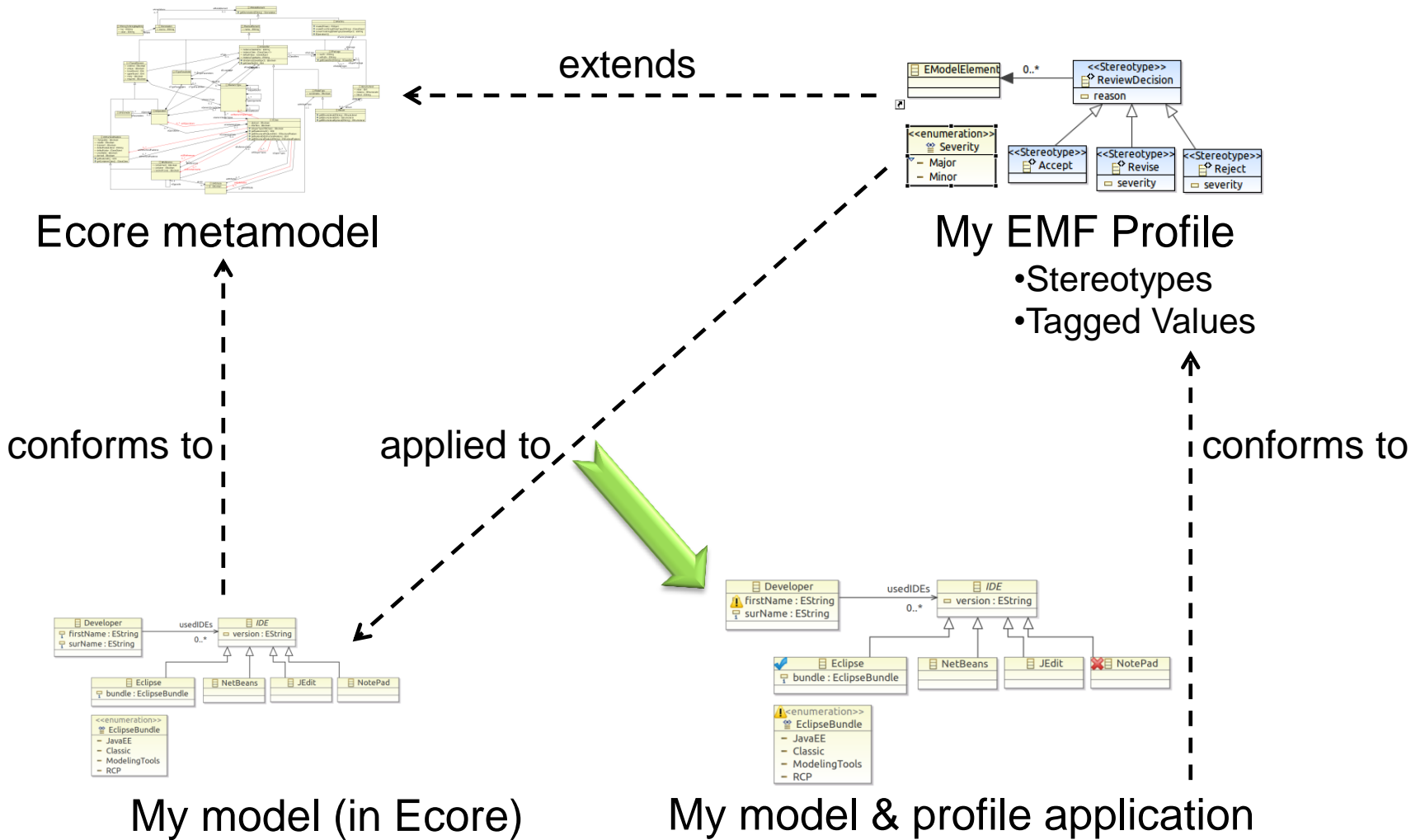


My model (in Ecore)

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

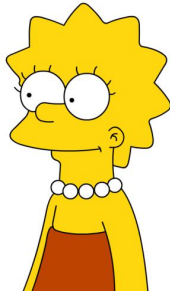
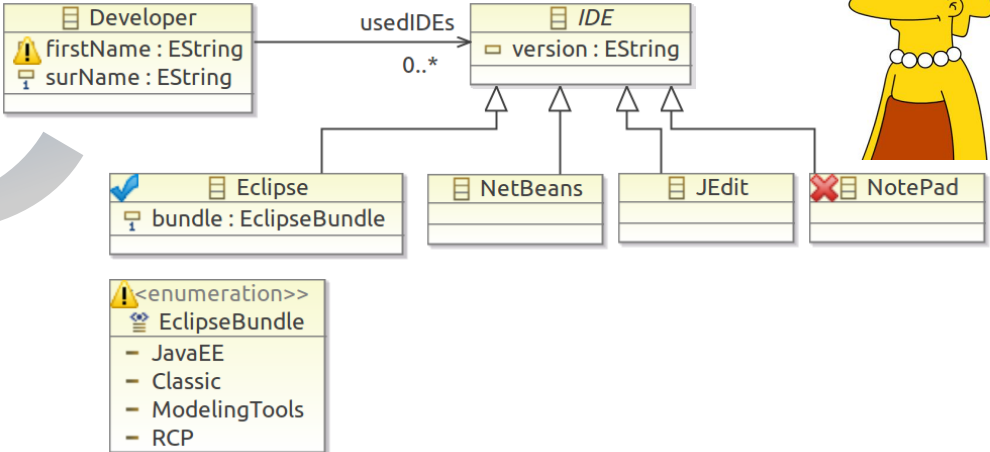
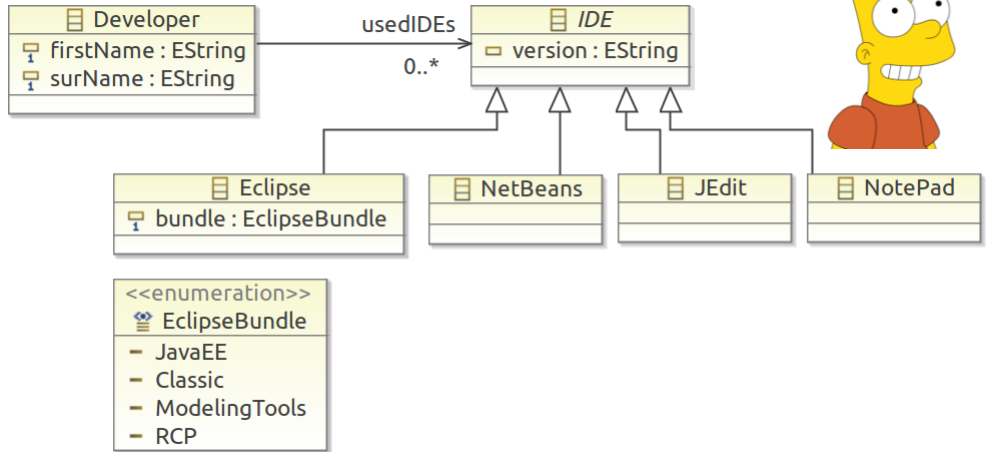


EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>



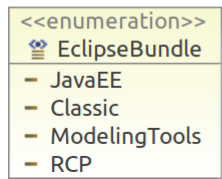
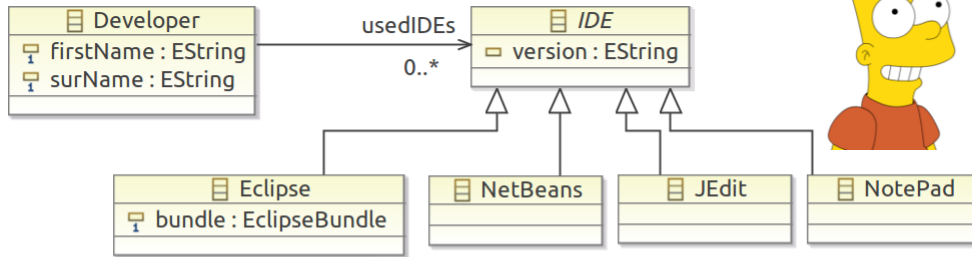
Example for demo

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

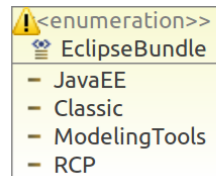
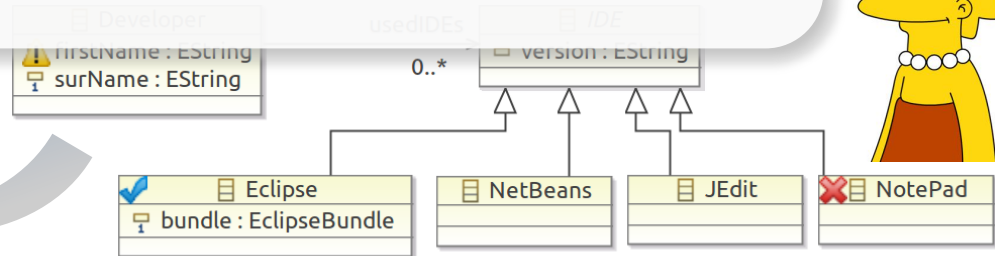


Example for demo

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