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

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# You need to extend your models?

## EMF Facet vs. EMF Profiles

Modeling Symposium – Monday March 26th, 2012

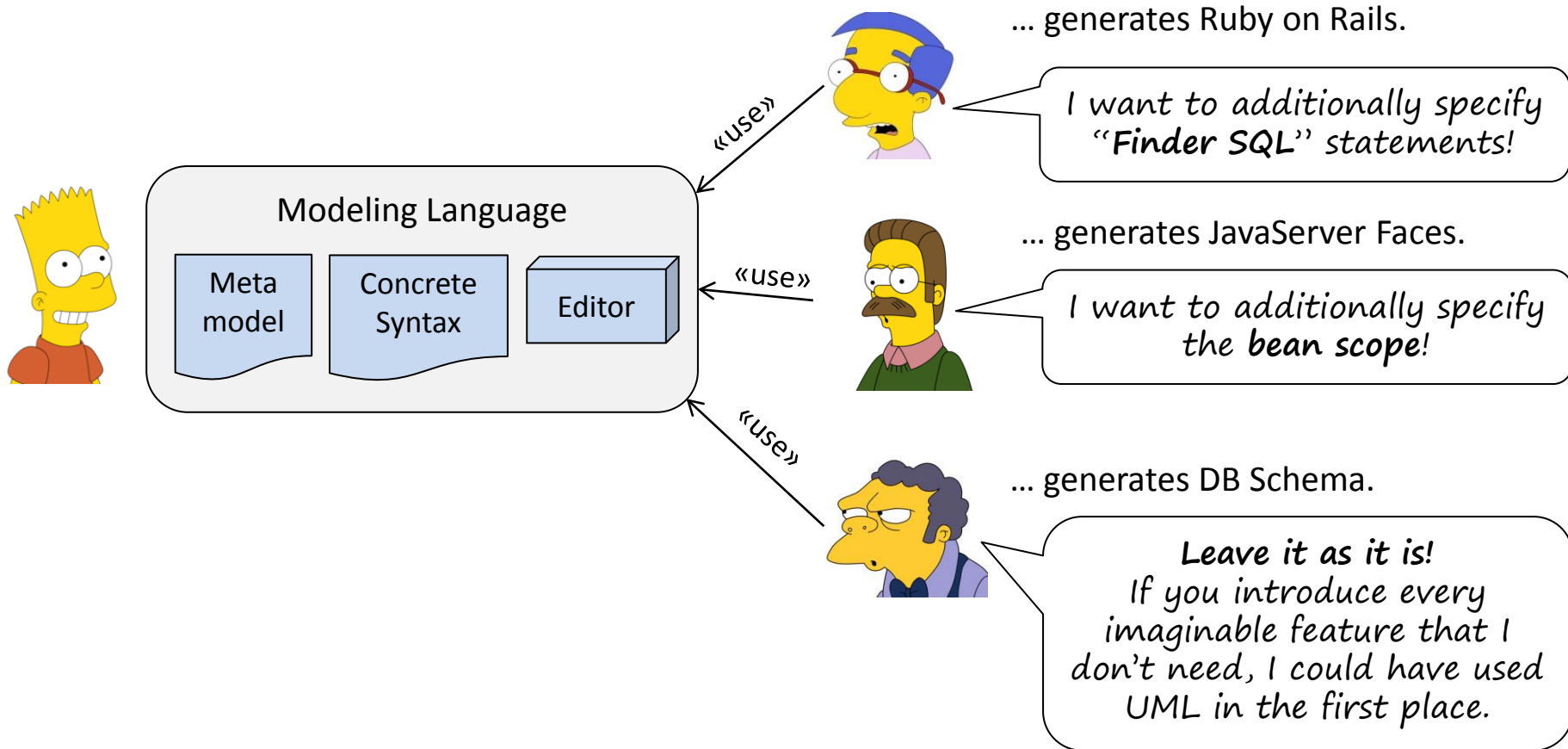
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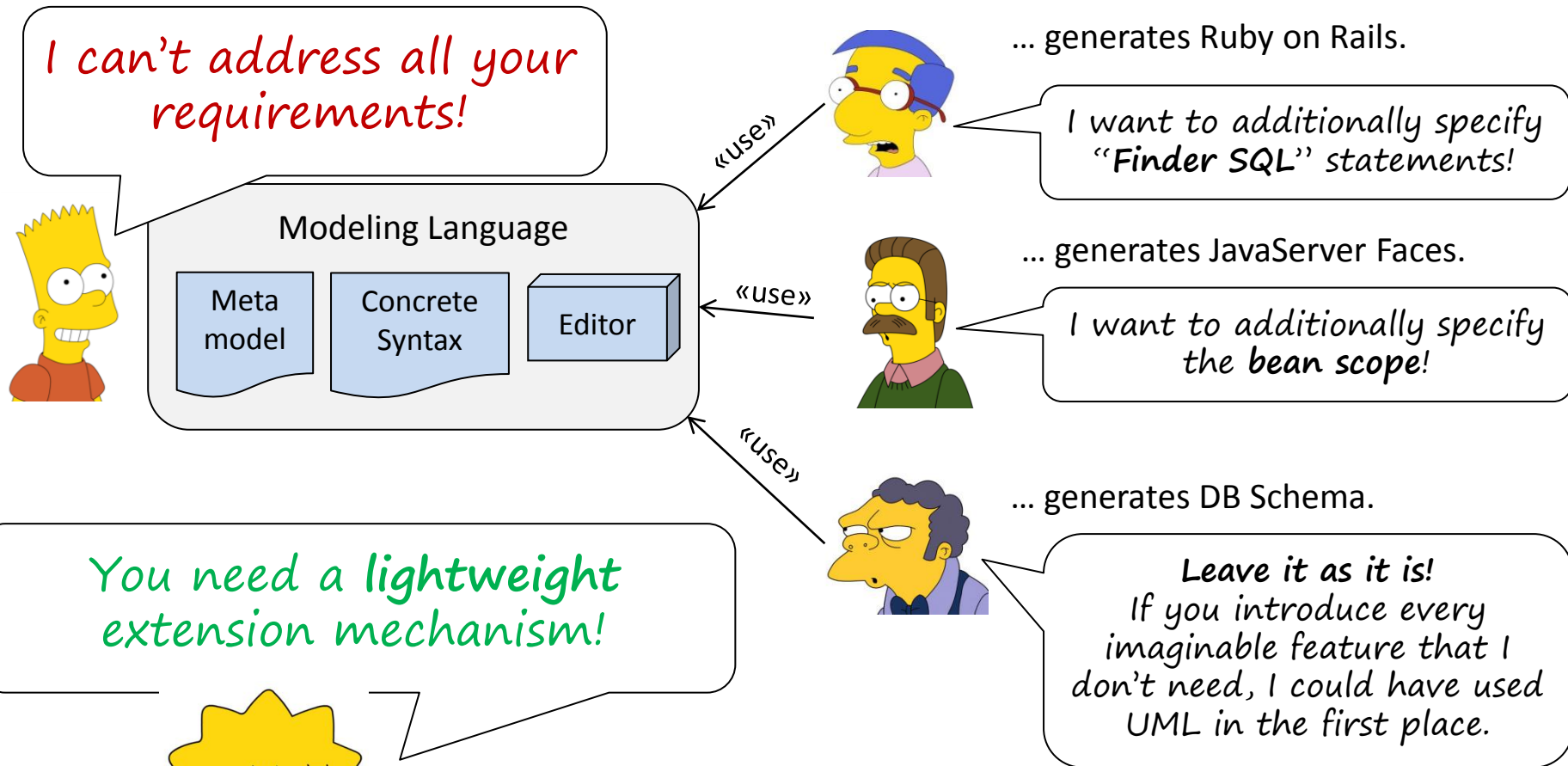
Philip Langer  
[langer@big.tuwien.ac.at](mailto:langer@big.tuwien.ac.at)



# Why extending existing models?



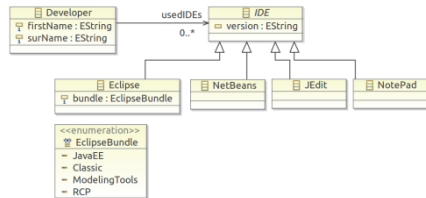
# Why extending existing models?



## Main Objectives

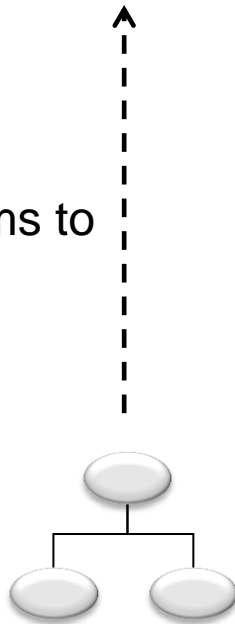
- No modification of existing models
- Adding of "concern-specific" information

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



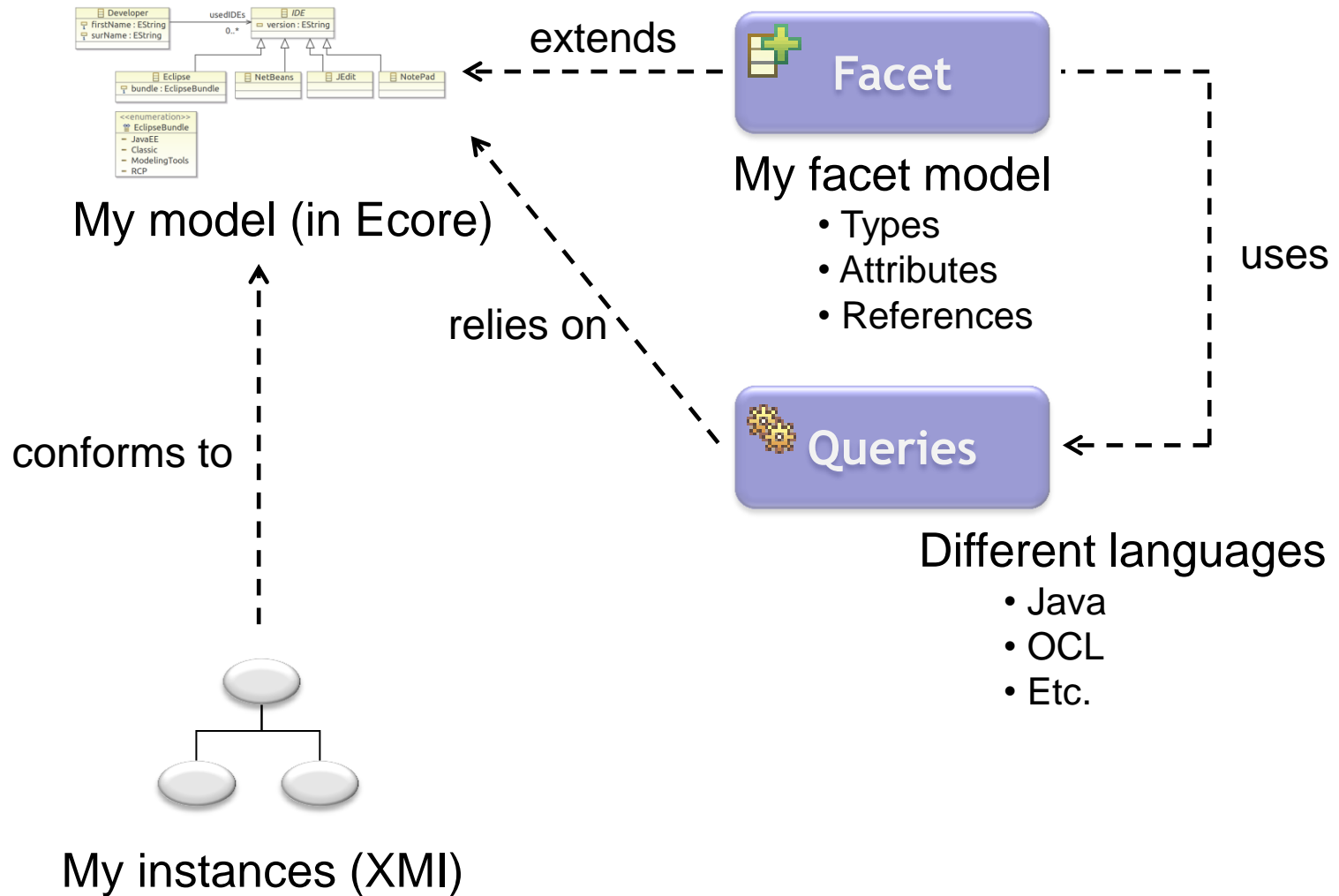
My model (in Ecore)

conforms to

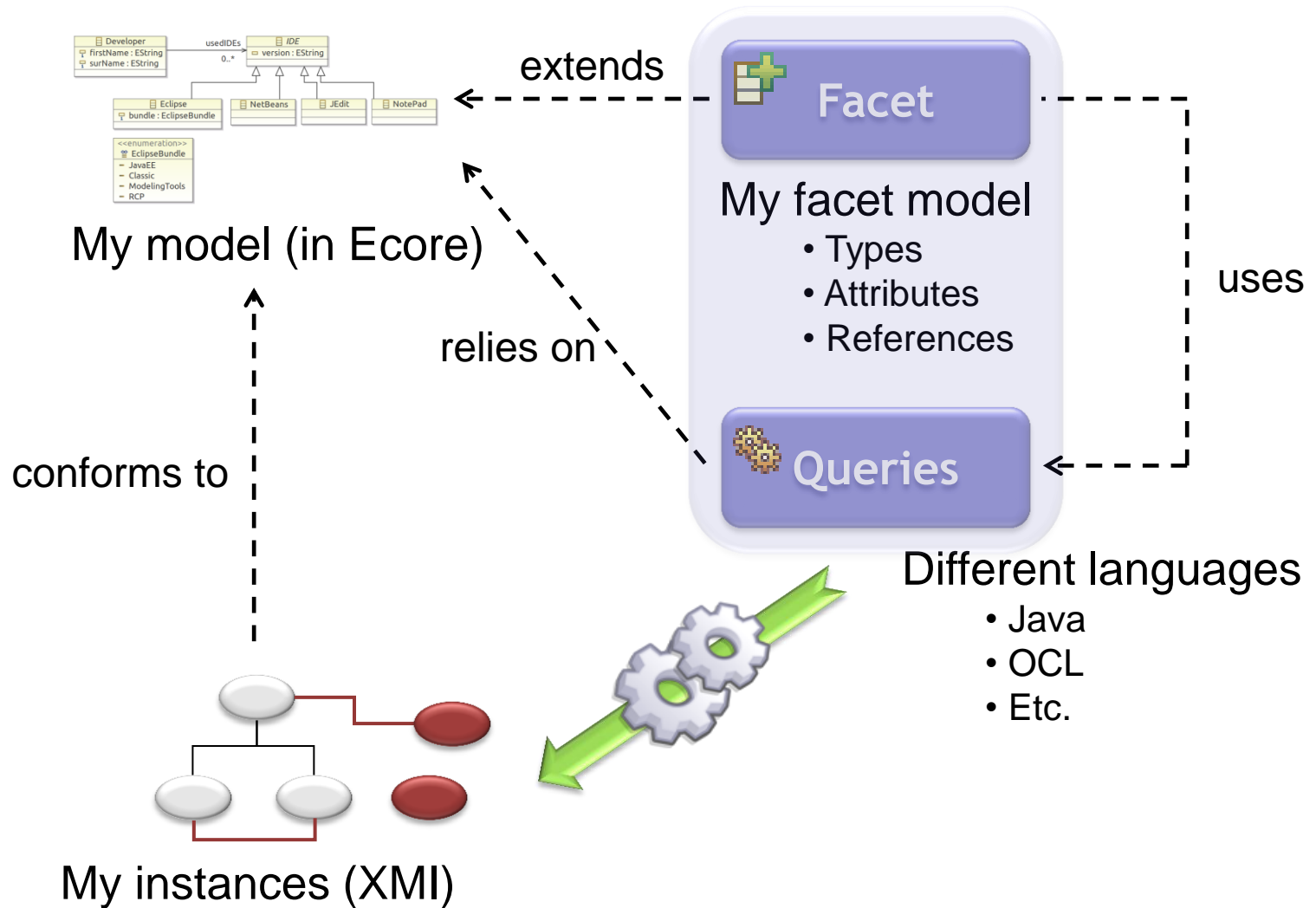


My instances (XMI)

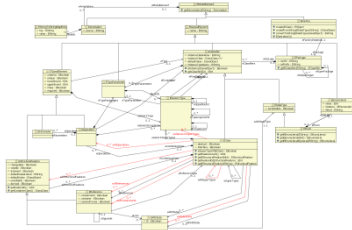
# EMF Facet - <http://www.eclipse.org/modeling/emft/facet/>



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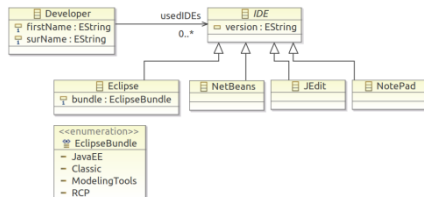
# EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>



Ecore metamodel



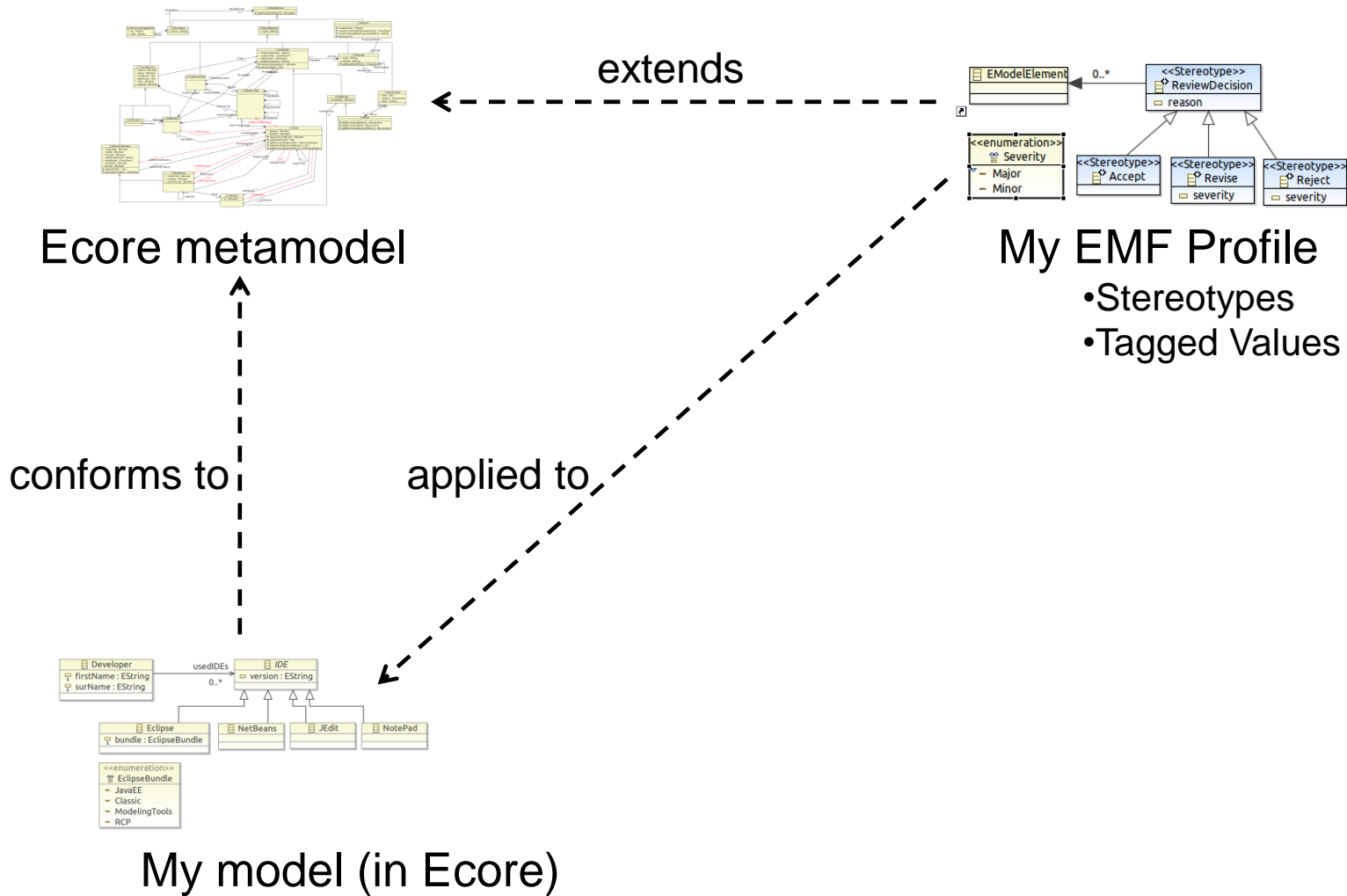
conforms to



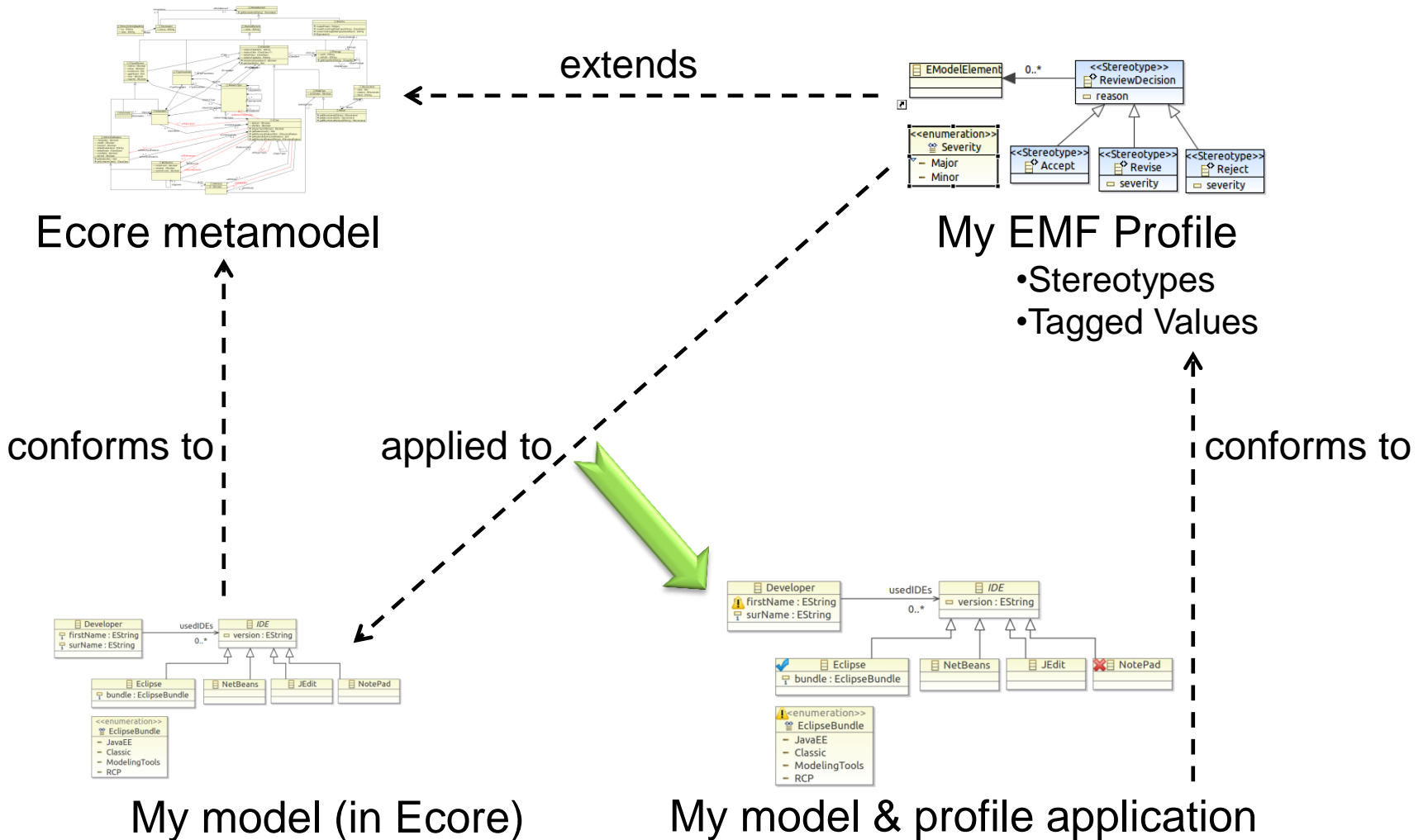
My model (in Ecore)



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

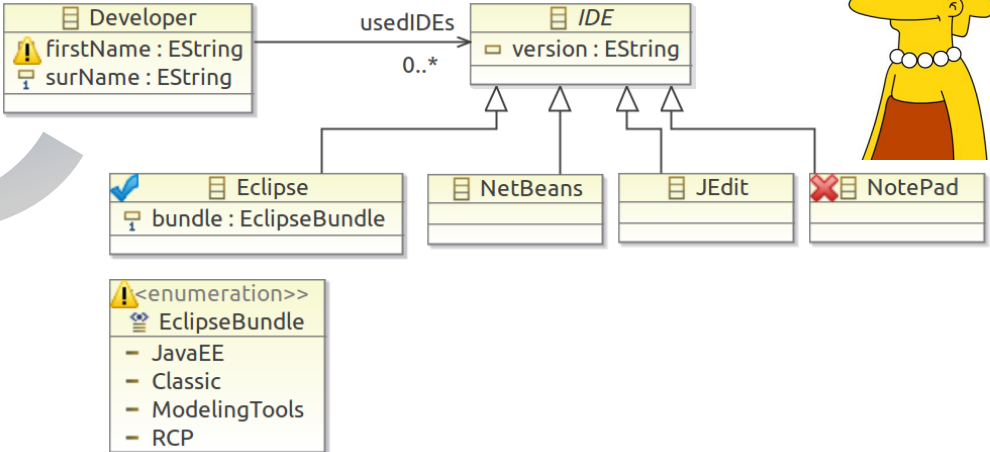
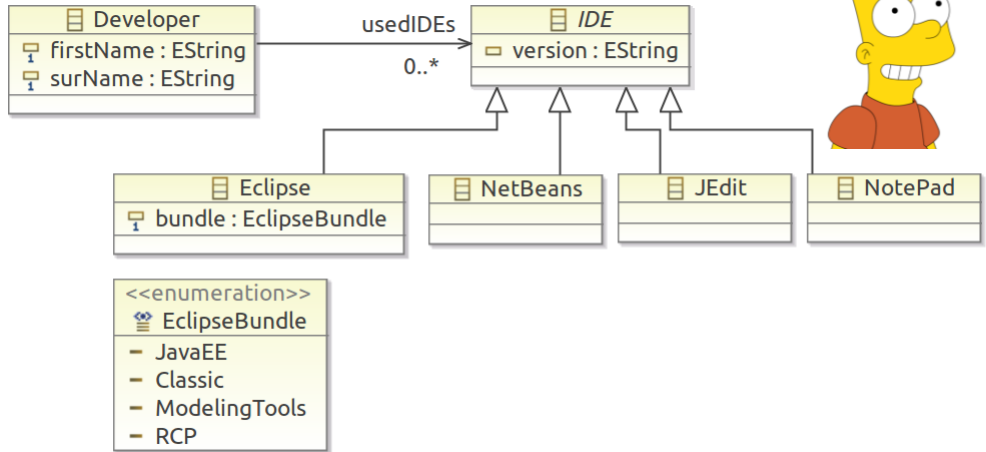


# EMF Profiles - <http://code.google.com/a/eclipselabs.org/p/emf-profiles/>



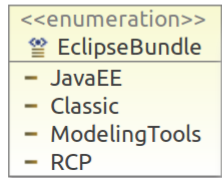
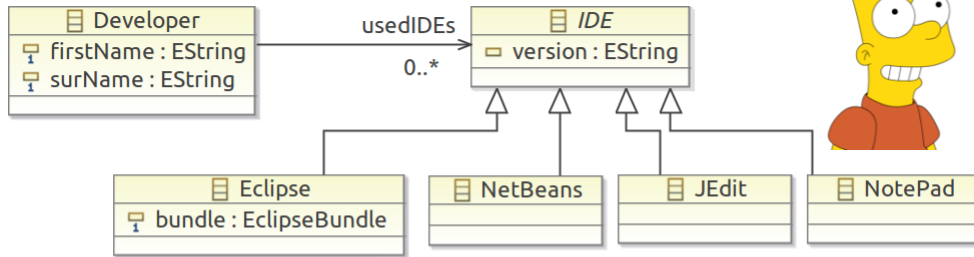
# Example for demo

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

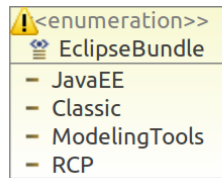
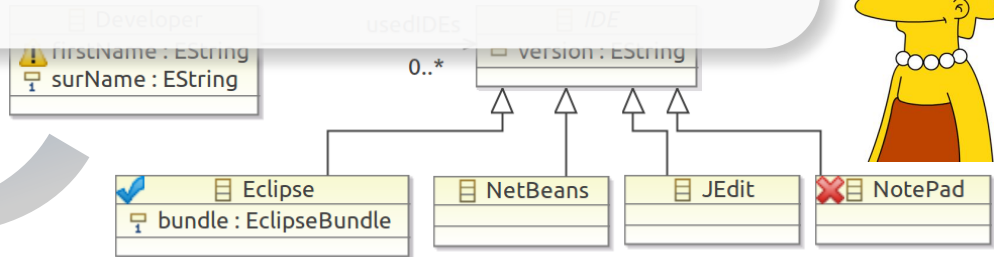
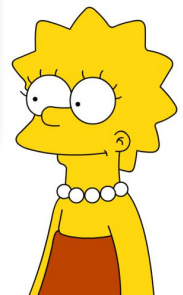


# Example for demo

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

<b>EMF Facet</b>	<b>EMF Profiles</b>
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