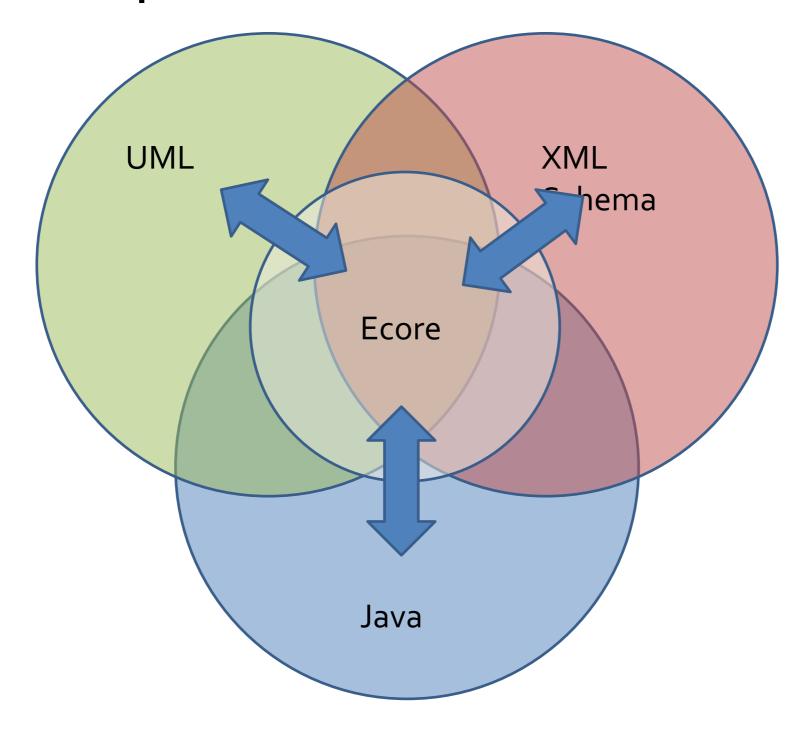


Ecore: The Model of Models

- A simple model for describing modε
 - Classification of objects
 - Attributes of those objects
 - Relationships/associations between those objects
 - Operations on those objects
 - Simple constraints on those objects, and their attributes and relationships
- Ecore is self describing, i.e., it is its own model



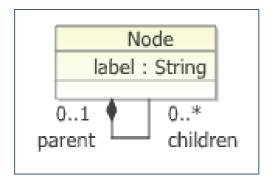
Relationship of Ecore to Other Models



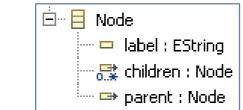
Monday, October 22, 2012 © Ed Merks | EDL V1.0

A Model is a Model is a Model

UML









```
public interface Node {
   String getLabel();
   void setLabel(String value);
   List<Node> getChildren();
   Node getParent();
   void setParent(Node value);
} // Node
```

XML Schema

EMF is Great!

JavaBeans on steroids

- Containment
- Notification
- RESTful resources
- And so on...





Xcore

- Textual syntax for Ecore
- Cool editor
- Generates on save
- No generator model
- Specify behavior!



Xcore's Tree Model

```
class Node
{
   String label
   contains Node[] children opposite parent
   container Node parent opposite children
}
```



