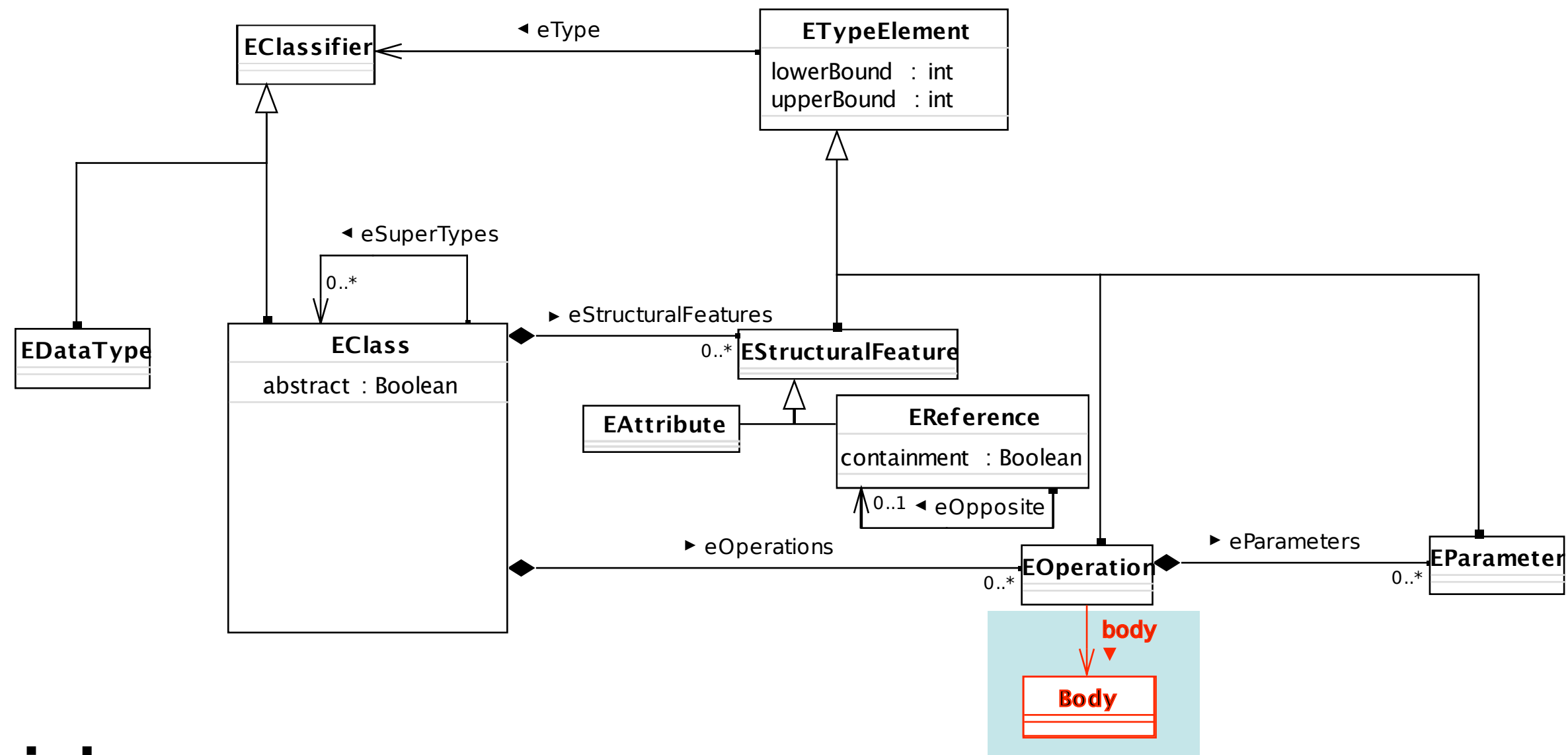


Specifying Semantics for Ecore Models with **Story-Driven Modelling in Fujaba** **eJava**

Jendrik Johannes

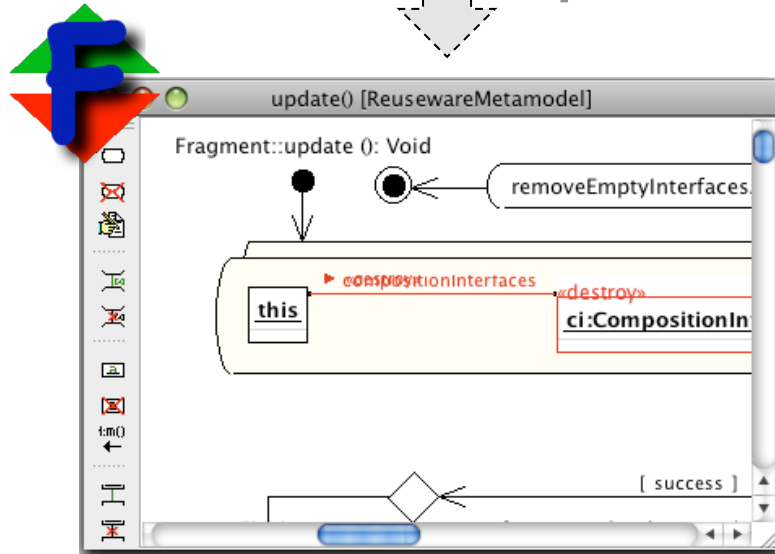


- **Fujaba**
 - Defining **EOperations** using **Story-Driven Modelling (SDM)**
- **eJava** (powered by JaMoPP)
 - Defining **EOperations** with a **Java**-like action language

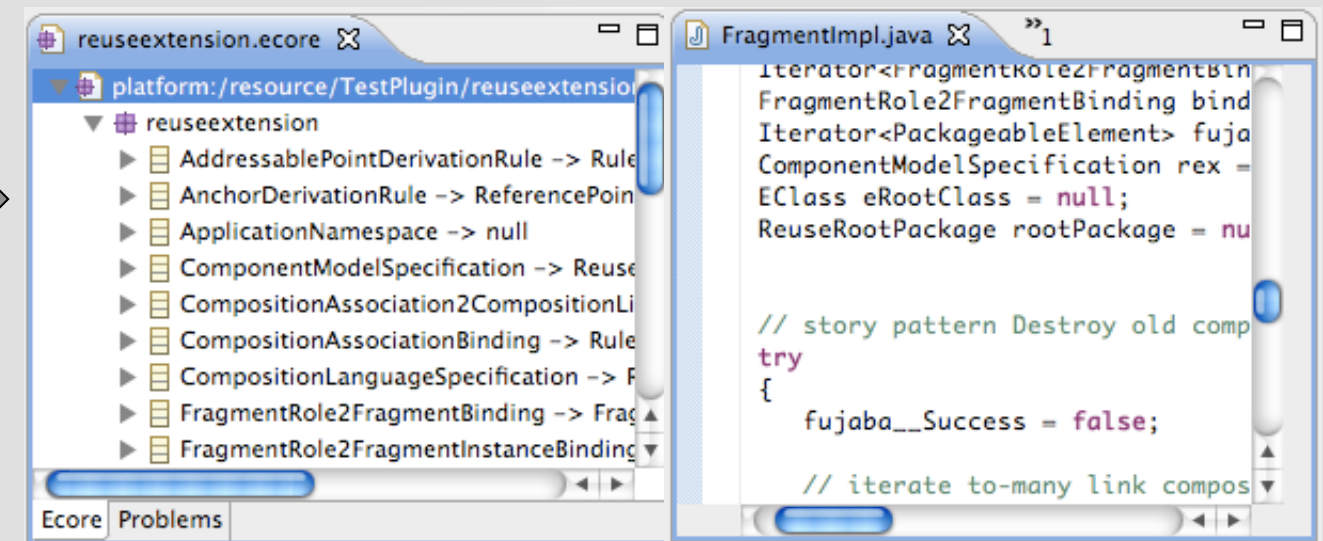
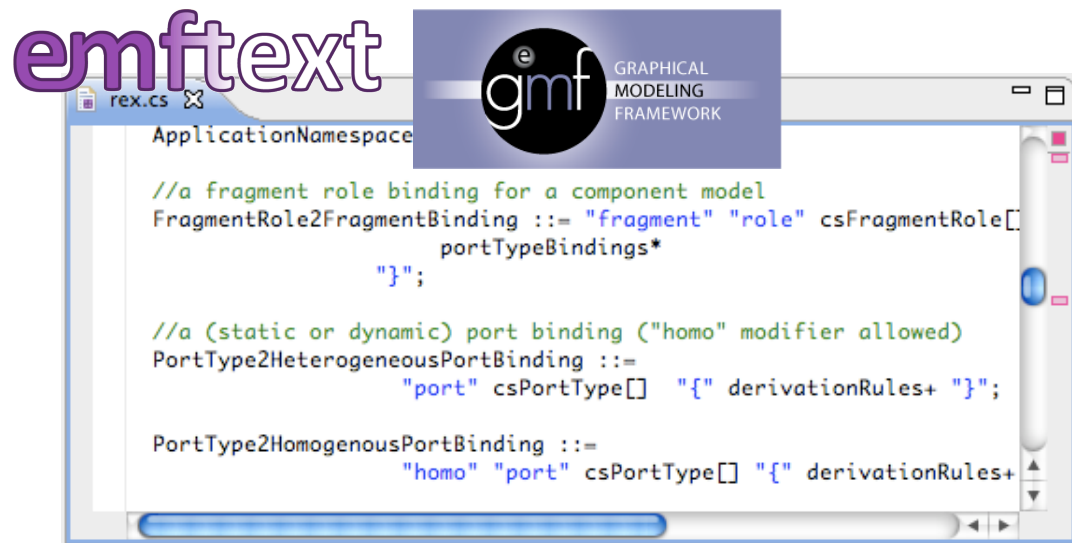
Story-Driven Modelling (SDM) ***(in Fujaba)***

Existing Ecore Model

Import



Fujaba
Code Generation



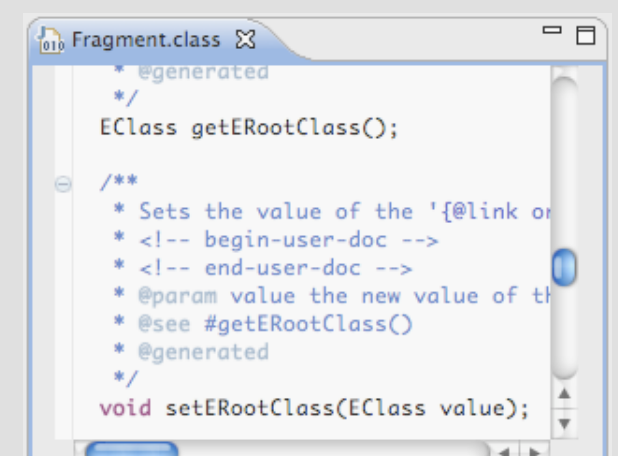
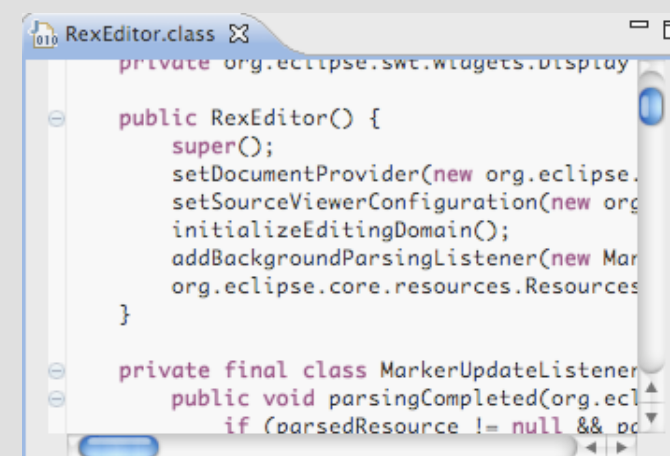
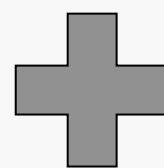
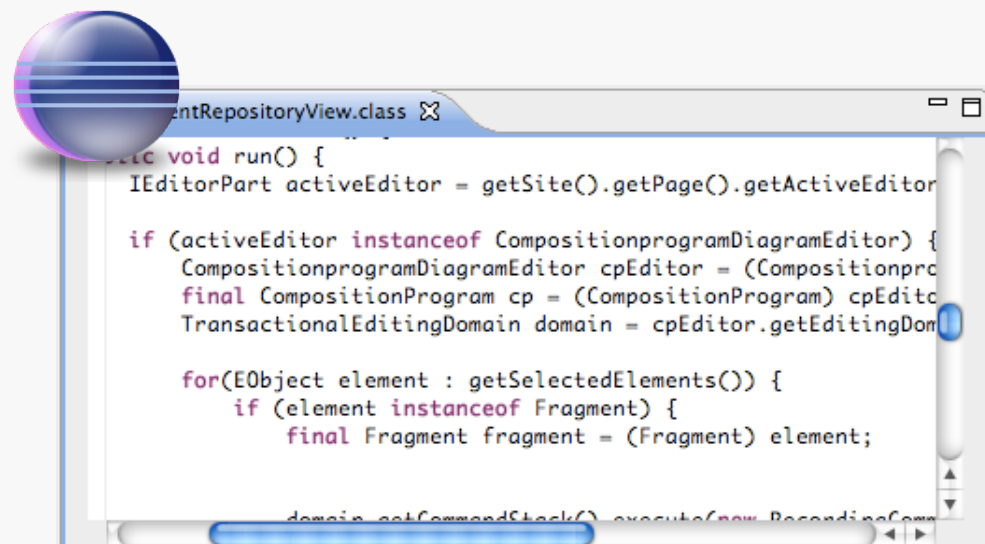
generated

emftext
gmf GRAPHICAL
MODELING
FRAMEWORK



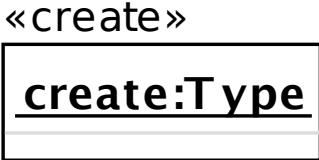




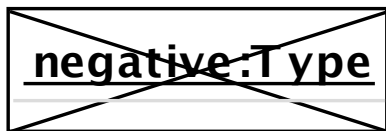
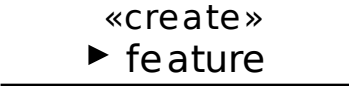
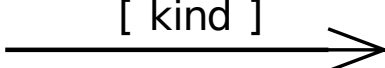


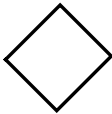
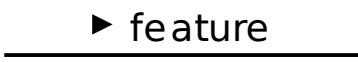
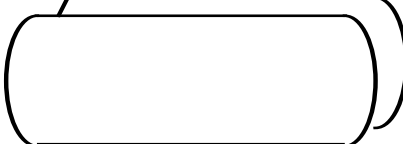


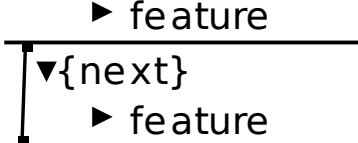
EMFText & GMF
Code Generation

emf
ECLIPSE MODELING FRAMEWORK

EMF
Code Generation



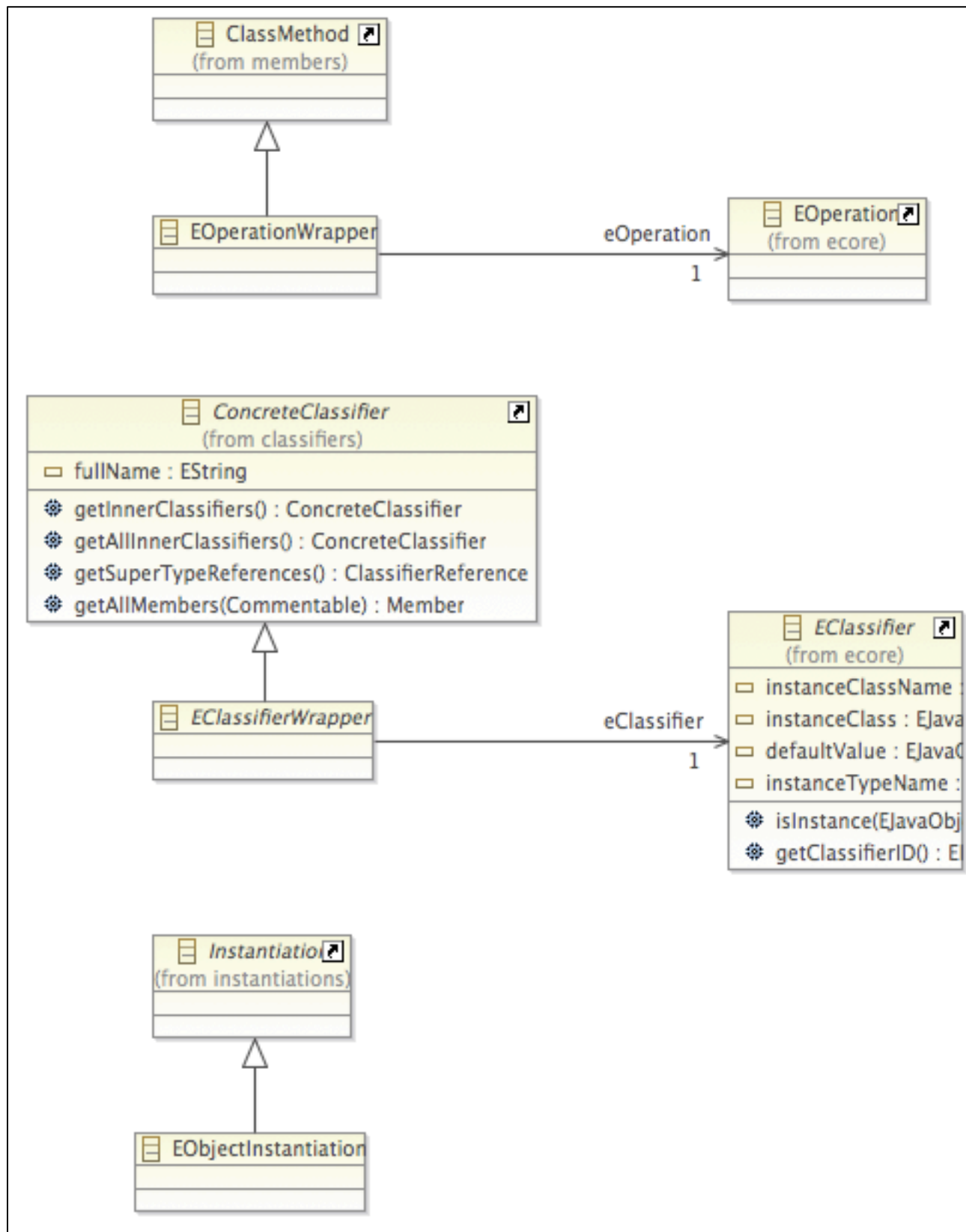
Story Driven Modelling

1) Activity Diagram		2) Story Pattern Action - Match		3) Story Pattern Action - Rewrite	
1.1) Initial Node		2.1) Bound Node		3.1) Create Node	
1.2) Activity Final	 [return value]	2.2) Unbound Node		3.2) Destroy Node	
1.3) Story Pattern Action		2.3) Negative Node		3.3) Create Edge	
1.4) Transition		2.4) Optional Node		3.4) Destroy Edge	
1.5) Decision Node		2.5) Edge		3.5) Collab. Statement	1: collaboration statement code
1.6) For-Each Action		2.6) Negative Edge			
		2.7) Optional Edge			
		2.8) Multi Edge			

DEMO

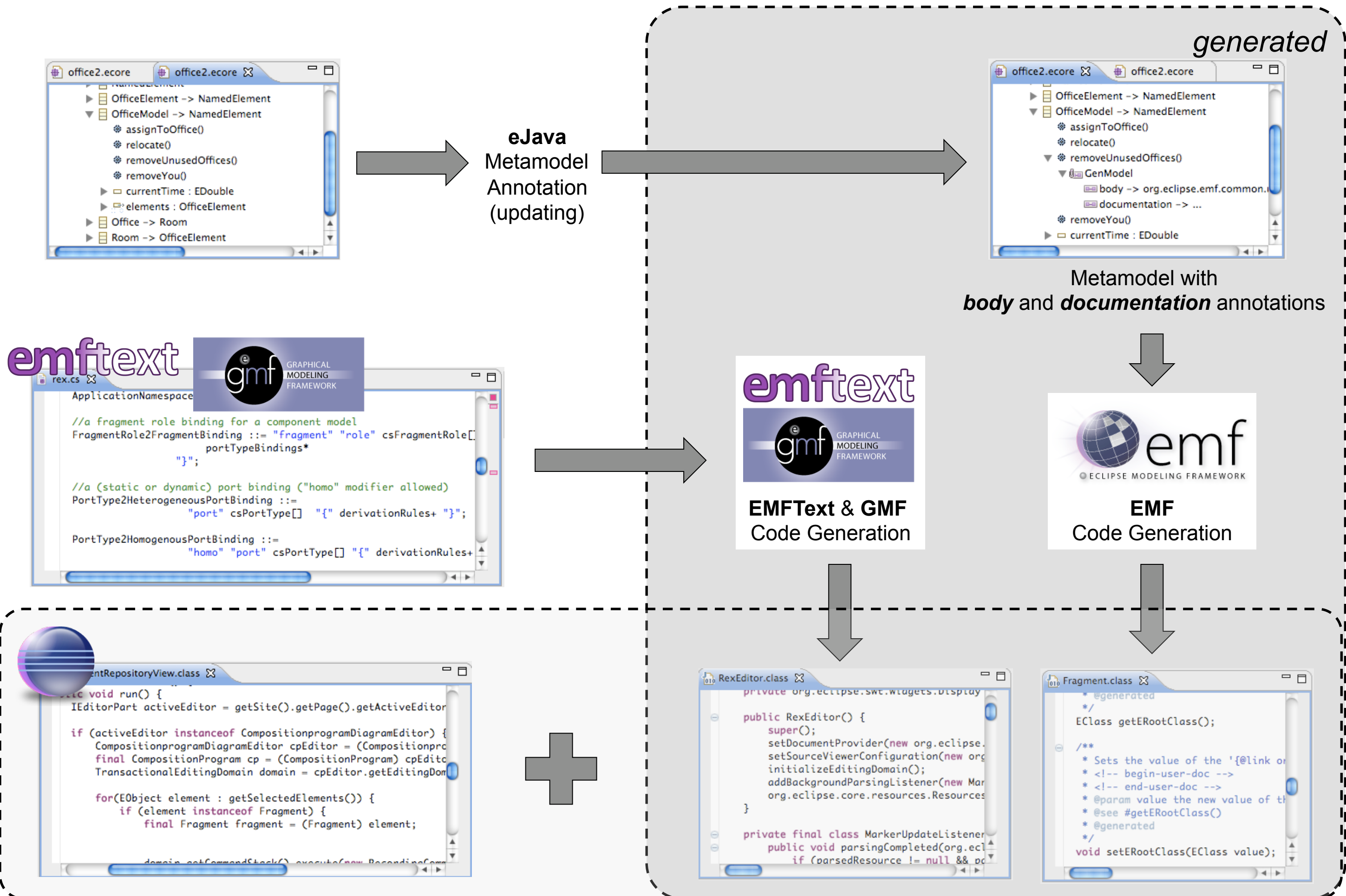
eJava – An Integration of Ecore and JaMoPP

Ecore and Java Metamodel Integration



eJava syntax – extension of Java syntax





DEMO

- Fujaba SDM (<http://www.fujaba.de>)
 - Reuseware:
[http://reuseware.org/index.php/Reuseware Metamodel](http://reuseware.org/index.php/Reuseware_Metamodel)
- eJava (http://www.emftext.org/index.php/EMFTText_Concrete_Syntax_Zoo_eJava)
 - JaMoPP:
http://www.emftext.org/index.php/EMFTText_Concrete_Syntax_Zoo_Java_5
 - EMFTText CS Language:
http://www.emftext.org/index.php/EMFTText_Concrete_Syntax_Zoo_CS

- Fujaba SDM
 - <http://reuseware.org/index.php/Metamodel> (howto.txt)
http://www.se.eecs.uni-kassel.de/fileadmin/se/projects/Fujaba/Fujaba_HEAD_RT-5.3.1-20090909.zip
(Fujaba version I am working with)
<http://svn-st.inf.tu-dresden.de/svn/reuseware/trunk/CoCoNut/org.reuseware.coconut/metamodel/FujabaPlugins/>
(extended code generation templates & Ecore import plugin)
- eJava
 - <http://www.emftext.org/update> (category: JaMoPP Applications)

