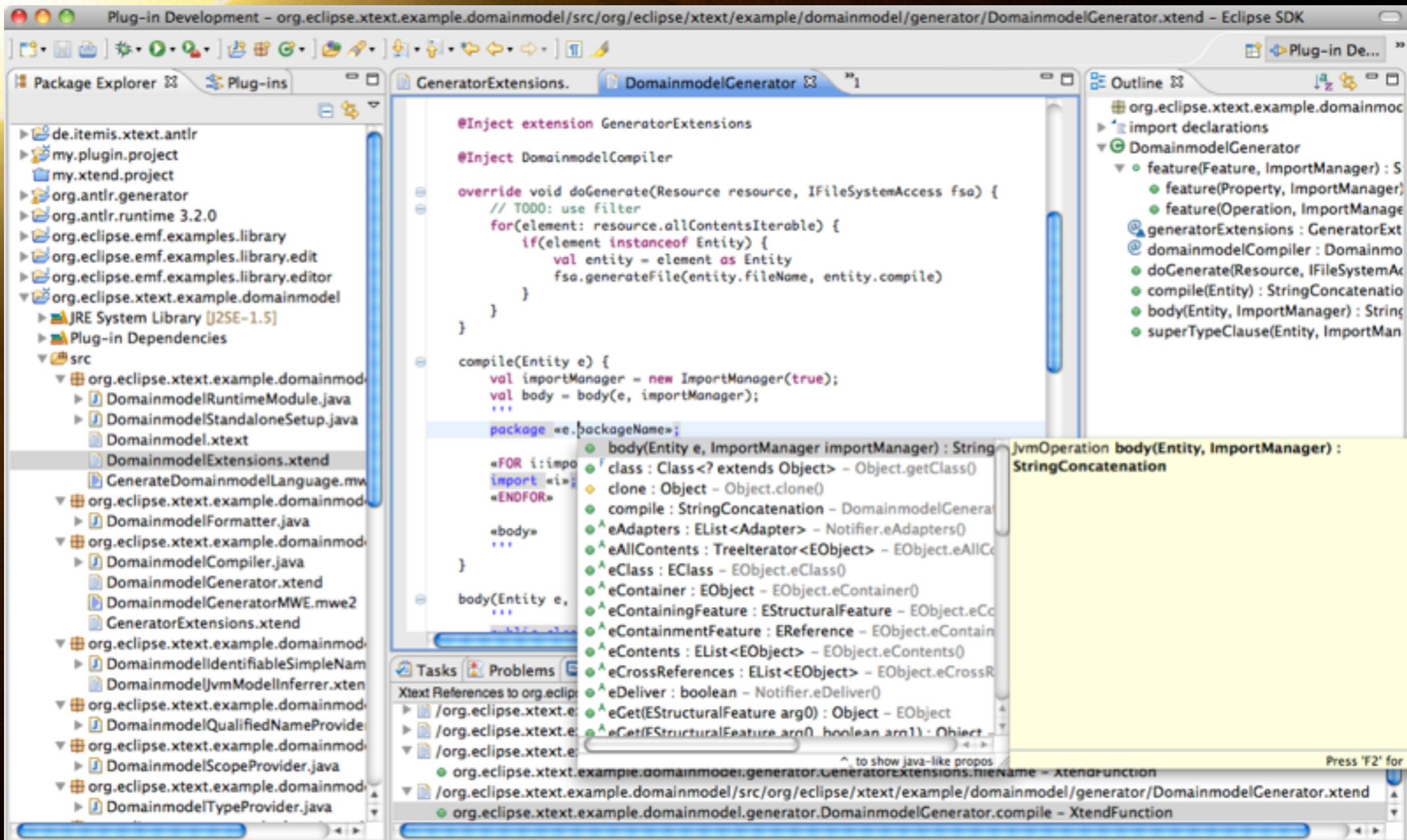


What's New In Luna?

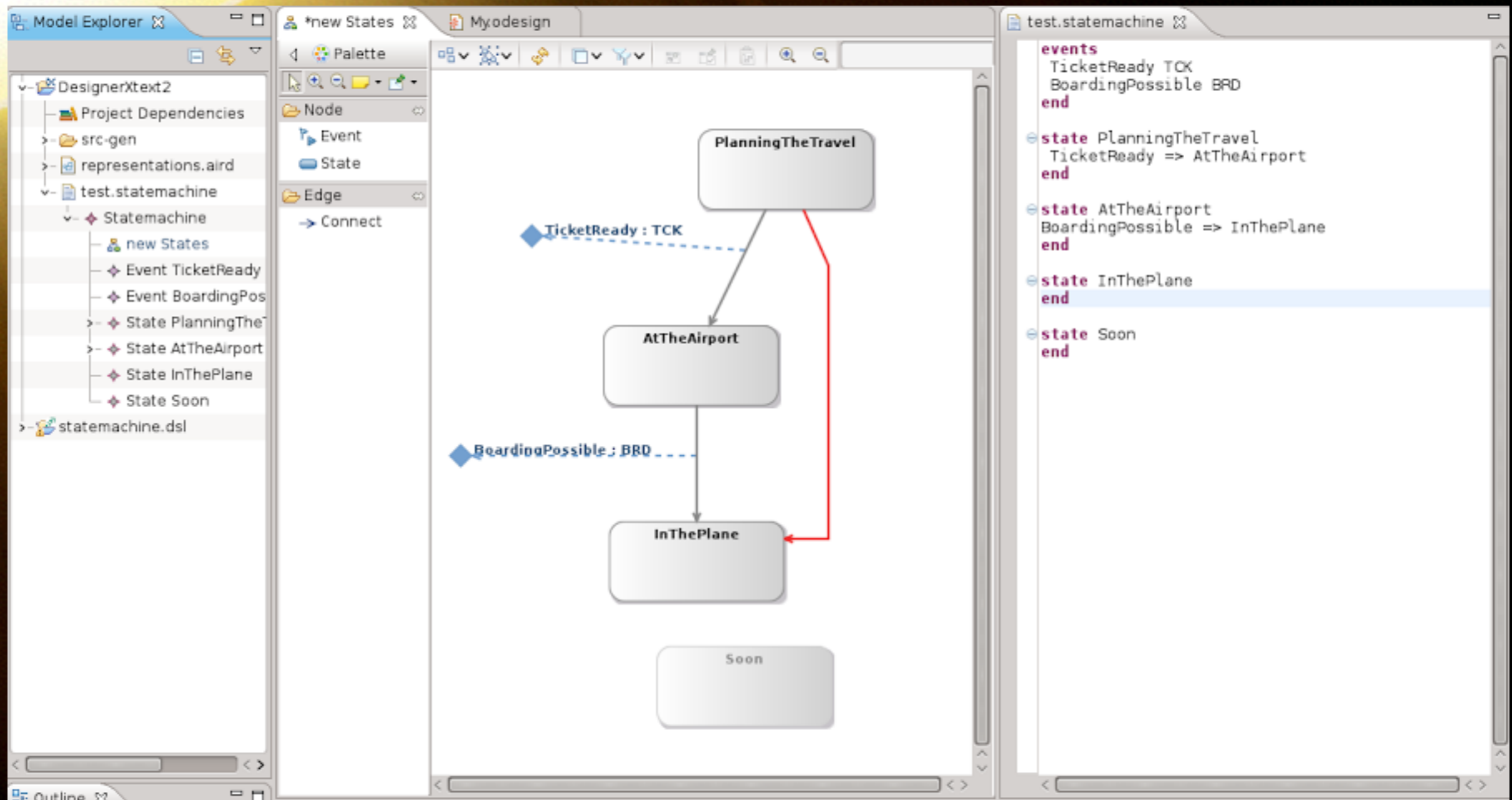
Xtext

Sven Efftinge (itemis)

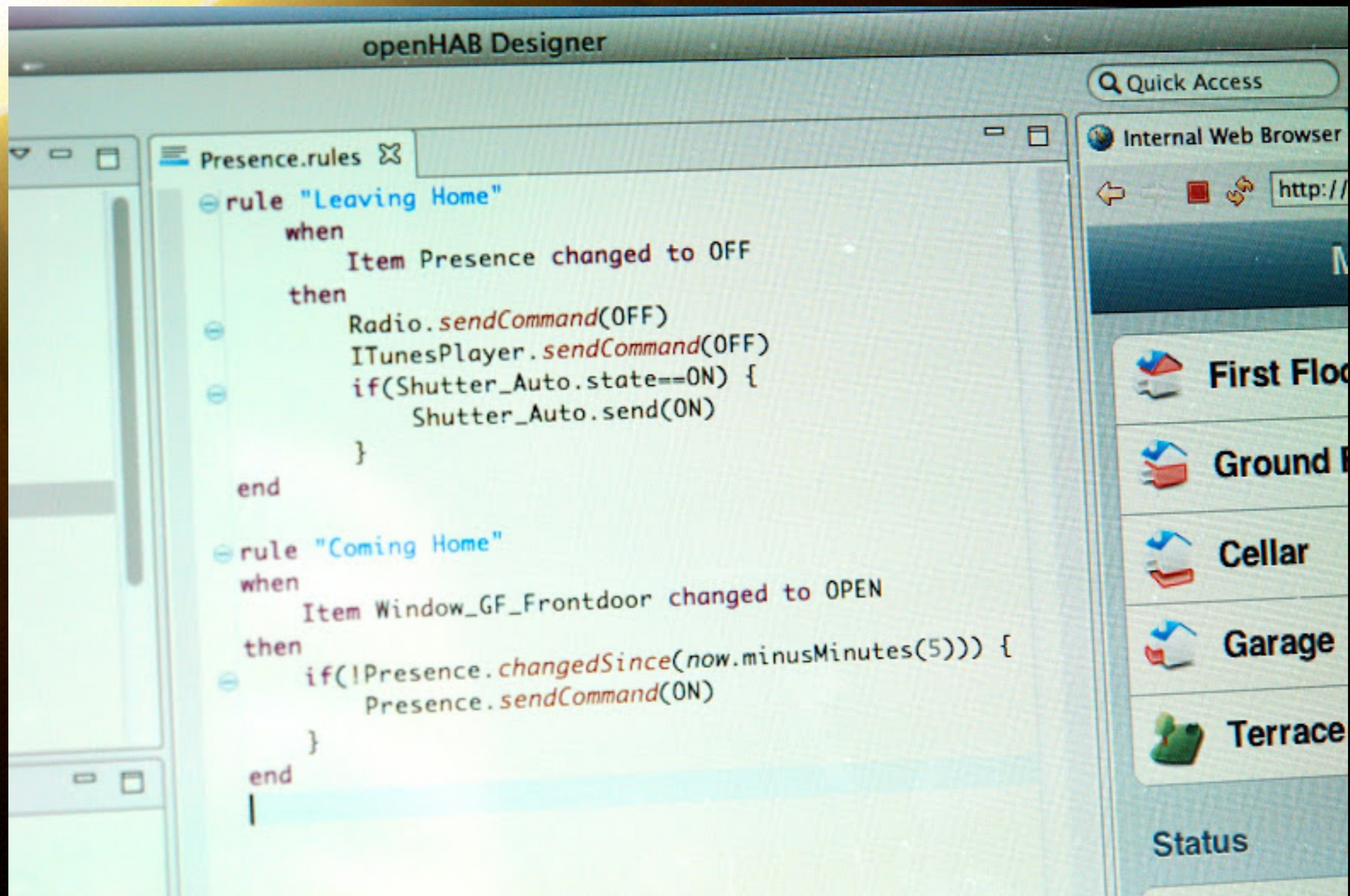
What is Xtext?



IDE Framework



Modeling Tool



DSL Toolkit



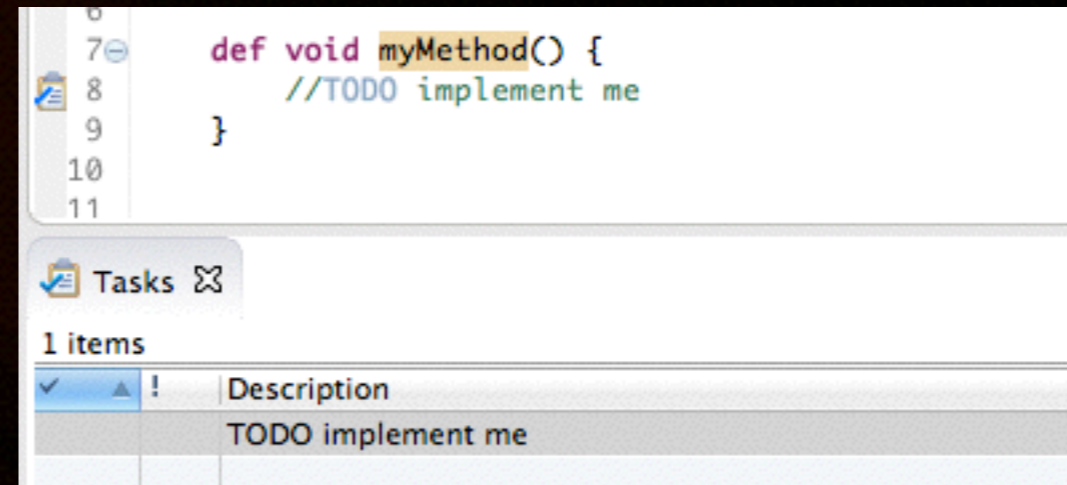
What's new in Luna?



Version 2.6.1

New UI Features

Task Markers

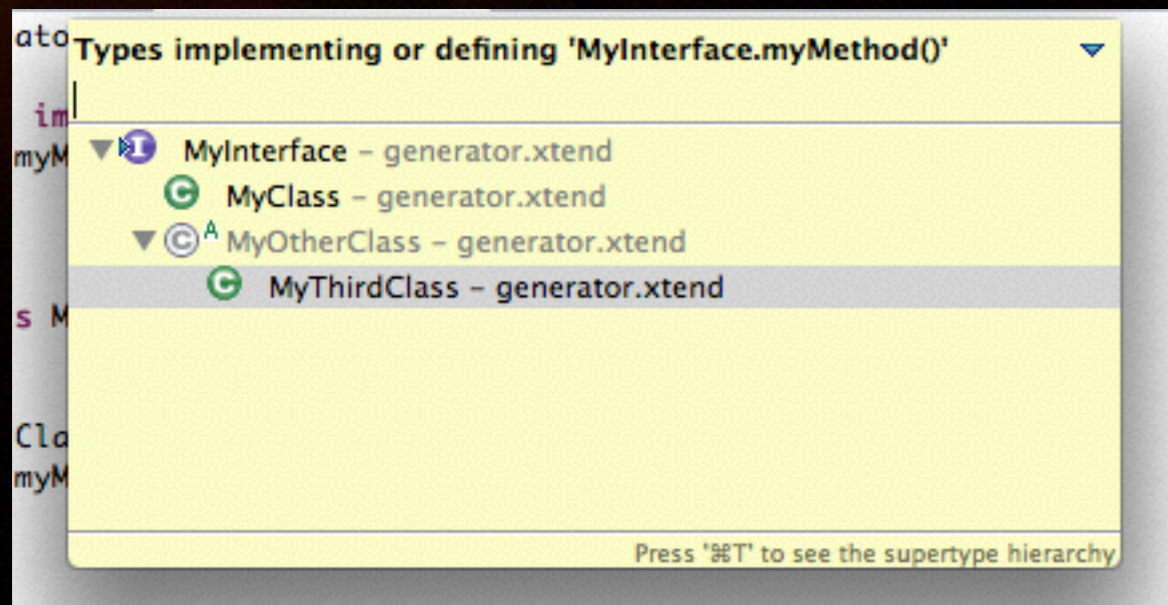


```
7 def void myMethod() {  
8     //TODO implement me  
9 }  
10  
11
```

Tasks

1 items

Description
TODO implement me

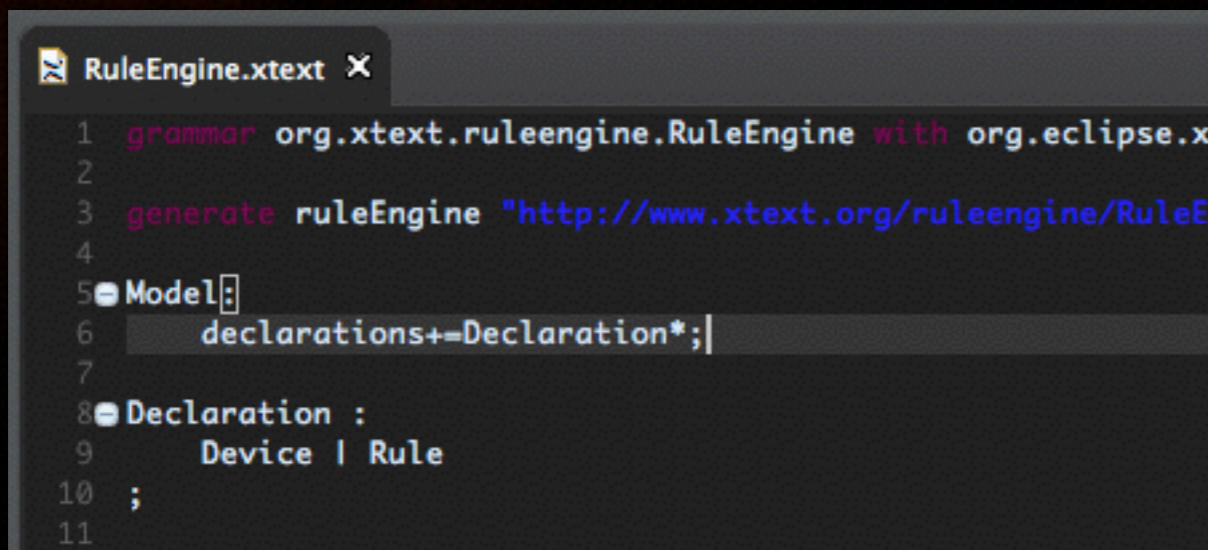
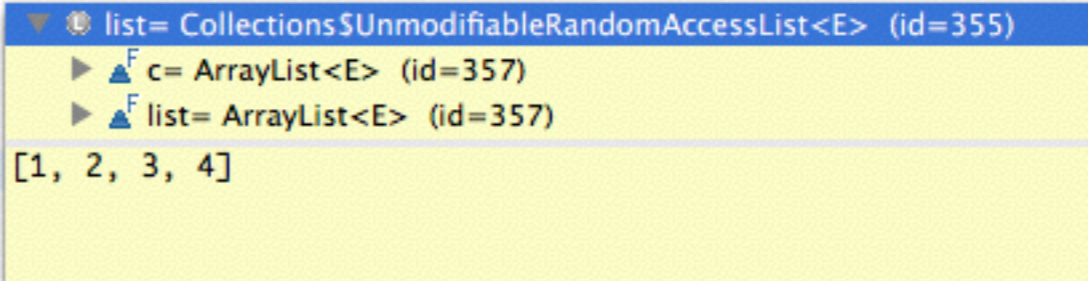


Open Implementation (Xbase)

New UI Features

Debug Hover
(Xbase)

```
def static void main(String[] args) {  
    val list = #[1,2,3,4]  
    println(list)  
}
```



```
RuleEngine.xtext x  
1 grammar org.xtext.ruleengine.RuleEngine with org.eclipse.xtext  
2  
3 generate ruleEngine "http://www.xtext.org/ruleengine/RuleE  
4  
5 Model:  
6     declarations+=Declaration*;  
7  
8 Declaration :  
9     Device | Rule  
10 ;  
11
```

Dark Theme Support

Xbase Expressions

synchronized

```
1. synchronized(lock) {  
2.     // do stuff  
3. }
```

`+=`, `-=`, `*=`, ...

```
1. var i = 0  
2. i += 42
```

```
1. var distance = 15.km  
2. distance += 5.km
```

old-school for-loop

```
1. for (var i = 0; i < 99; i++) {  
2.     println(''+i+' bottles of beer on the wall.')3. }
```

increment operator

```
1. var i = 0  
2. while (condition()) {  
3.     i++  
4. }
```


New in Xtend

anonymous classes

```
1.  val tabListener = new ActionBar.TabListener() {
2.
3.      override onTabSelected(ActionBar.Tab tab, FragmentTransaction ft) {
4.          // show the given tab
5.      }
6.
7.      override onTabUnselected(ActionBar.Tab tab, FragmentTransaction ft) {
8.          // hide the given tab
9.      }
10.
11.     override onTabReselected(ActionBar.Tab tab, FragmentTransaction ft) {
12.         // probably ignore this event
13.     }
14. };
```

nested classes

```
1.  class A {
2.      static class NestedClass {
3.      }
4.  }
```

operator declaration

```
1.  class Money {
2.      def + (Money other) { ... }
3.      def - (Money other) { ... }
4.      def * (BigDecimal times) { ... }
5.      ...
6.  }
```


Gradle Support

Generic Plug-in for all Xtext languages

```
1.  buildscript {
2.    repositories {
3.      mavenCentral()
4.    }
5.    dependencies {
6.      classpath 'org.xtend:xtend-gradle-plugin:0.0.8'
7.    }
8.  }
9.  apply plugin: 'xtend'
10. repositories {
11.   mavenCentral()
12. }
13. dependencies {
14.   //or testCompile if you only want to use Xtend for some tests
15.   compile 'org.eclipse.xtend:org.eclipse.xtend.lib:2.6.0'
16. }
```


MyHome.rules

```
Device Window can be OPEN, CLOSED  
Device Heating can be ON, OFF
```

- Rule "Close window when heating is turned on"
when Heating.ON
then fire(Window.OPEN)
- Rule "Turn heating off when window is opened"
when Window.OPEN
then fire(Heating.OFF)

Outline

- MyHome
 - Window
 - Heating
 - Close window when h
 - Turn heating off whe

Refactoring

Go To Declaration

Template Proposals

Global Indexing

Content Assist

Outline View

Quick Fixes

Find References

Validation

Syntax Coloring

Incremental Builders

Rich Hovers

Auto Editing

Wizards

Bracket Matching

Code Folding



BOSCH

intuit.

IBM

NOKIA
Connecting People

Users

SAP



CISCO SYSTEMS



Aleri

SAIC
From Science to Solutions



CONFERENCE



SPEAKERS



PROGRAM



LOCATION

only 89 days, 07 hours, 47 minutes and 27 seconds left

XtextCON

May 27-28 2014
Kiel, Germany

REGISTER NOW >

www.xtextcon.org



Community Experience Distilled

Implementing Domain-Specific Languages with Xtext and Xtend

Learn how to implement a DSL with Xtext and Xtend using easy-to-understand examples and best practices

Lorenzo Bettini

[PACKT] open source*
PUBLISHING

www.xtext.org

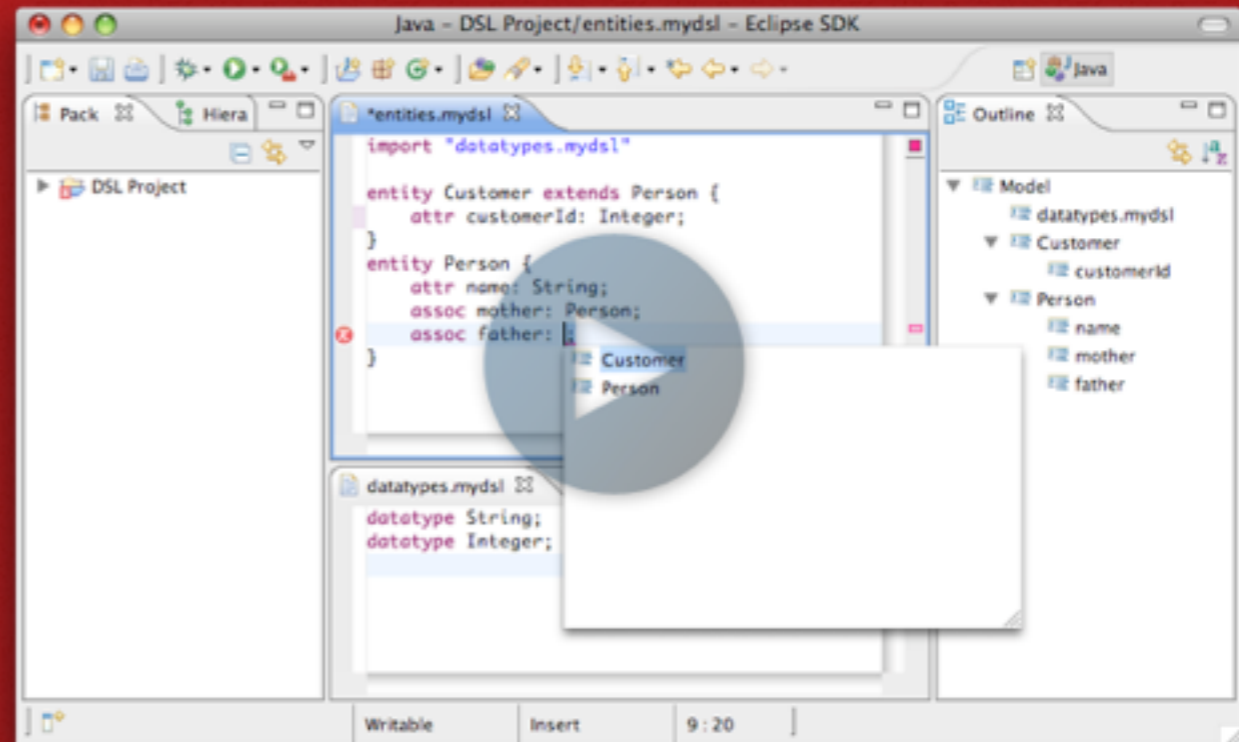


[News](#) [Download](#) [7 Languages](#) [Documentation](#) [Community](#) [Xtend](#) [Eclipse.org](#)

436

LANGUAGE DEVELOPMENT MADE EASY!

Building your own domain-specific languages has never been so easy. Just put your grammar in place and you not only get the working parser and linker but also first class Eclipse support.



WHAT IS XTEXT?

Xtext is a framework for development of programming languages and domain specific languages.

It covers all aspects of a complete language infrastructure, from parsers, over linker, compiler or interpreter to fully-blown top-notch Eclipse IDE integration. It comes with good defaults for all these aspects and at the same time every single aspect can be tailored to your needs.