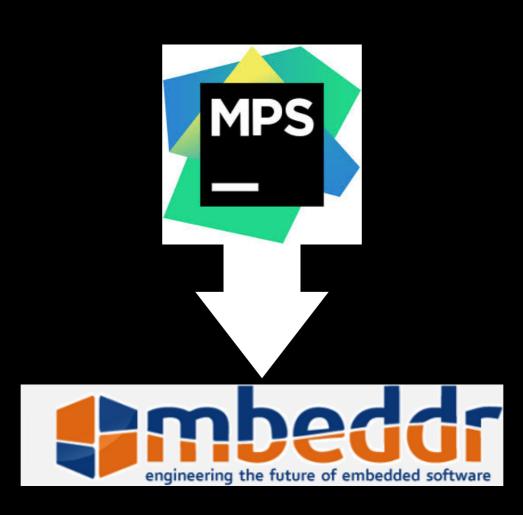
## Designing a Library for Model Analyses using MPS Anthony Anjorin

For a long time there's been a style of software development, **language oriented programming**, that seeks to describe software systems using a collection of **domain specific languages** (e.g., the Unix tradition of "little languages")

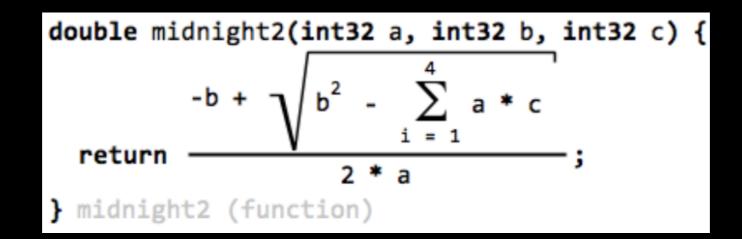
> Language Workbenches are a new breed of tools that aim to make language oriented programming a modern and viable approach

Martin Fowler
(https://www.martinfowler.com/articles/languageWorkbench.html)

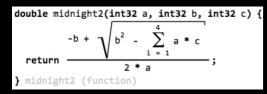


Markus Voelter and Sascha Lisson: Supporting Diverse Notations in MPS' Projectional Editor





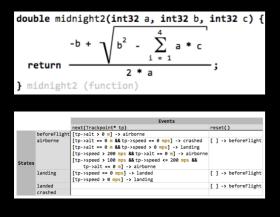




		Events						
		<pre>next(Trackpoint* tp)</pre>	reset()					
States	beforeFlight	<pre>[tp-&gt;alt &gt; 0 m] -&gt; airborne</pre>						
	airborne	<pre>[tp-&gt;alt == 0 m &amp;&amp; tp-&gt;speed == 0 mps] -&gt; crashed [tp-&gt;alt == 0 m &amp;&amp; tp-&gt;speed &gt; 0 mps] -&gt; landing [tp-&gt;speed &gt; 200 mps &amp;&amp; tp-&gt;alt == 0 m] -&gt; airborne [tp-&gt;speed &gt; 100 mps &amp;&amp; tp-&gt;speed &lt;= 200 mps &amp;&amp;      tp-&gt;alt == 0 m] -&gt; airborne</pre>	<pre>[ ] -&gt; beforeFlight</pre>					
	landing	<pre>[tp-&gt;speed == 0 mps] -&gt; landed [tp-&gt;speed &gt; 0 mps] -&gt; landing</pre>	[ ] -> beforeFlight					
	landed		<pre>[ ] -&gt; beforeFlight</pre>					
	crashed							

Markus Voelter and Sascha Lisson: Supporting Diverse Notations in MPS' Projectional Editor





## 1 Once a flight lifts off, you get 100 points PointsForTakeoff /functional: tags

... points are multiplied by the **§req(**PointsFactor), discussed below.

## 2.1 Hello, World

This tutorial showcases many of the features of mbeddr in an integrated example. The sources ZIP com.mbeddr.tutorial.zip is available from the download page at mbeddr.com. It is also part of the complete distro package.

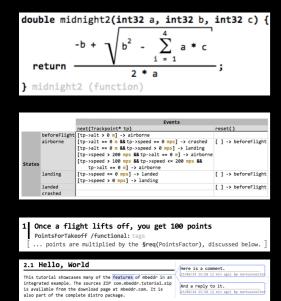
Here	is	а	comment.

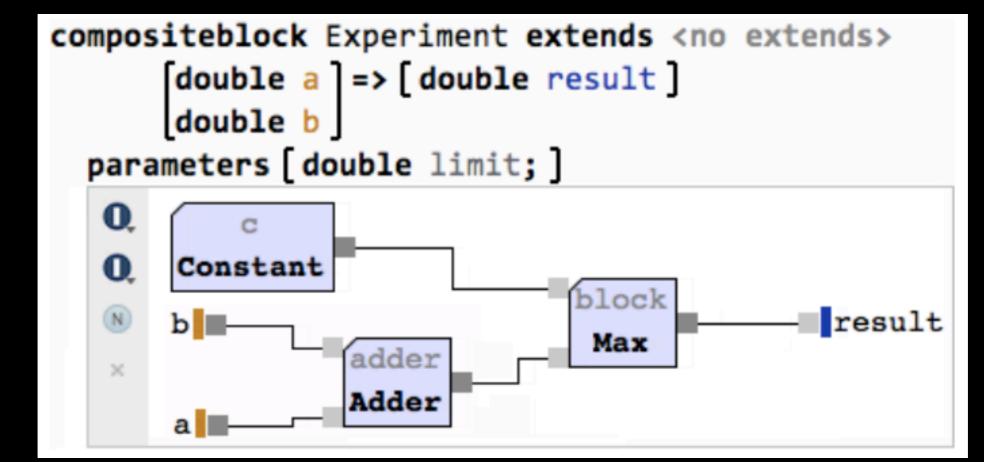
23/06/14 15:58 (2 min ago) by markusvoelter

And a reply to it.

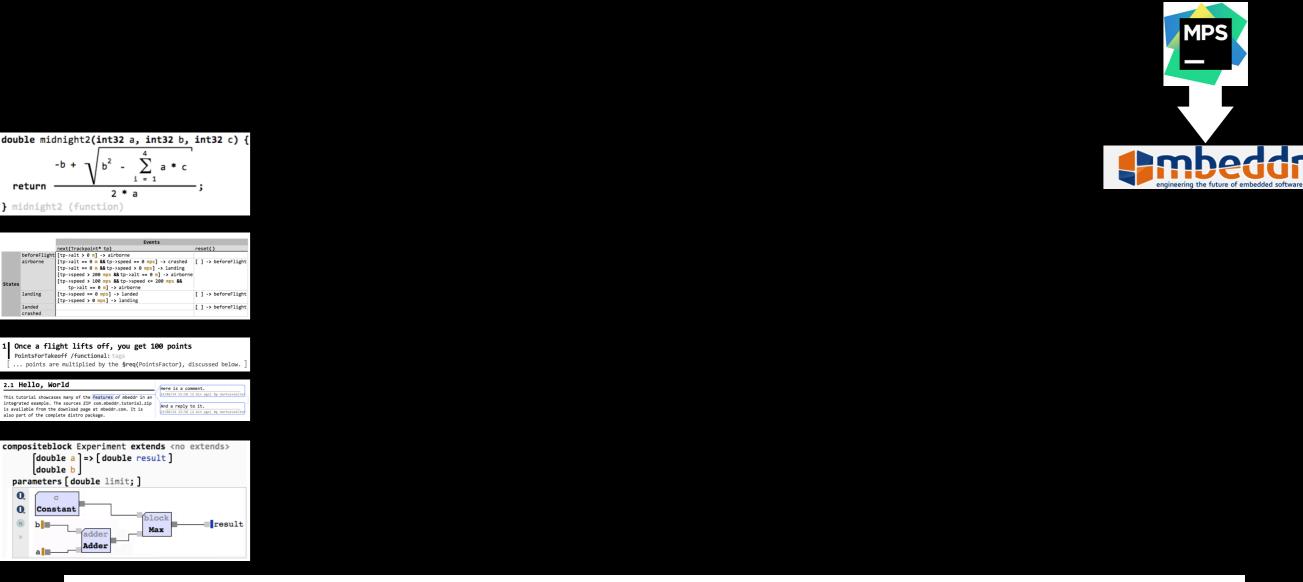
23/06/14 15:58 (2 min ago) by markusvoelter







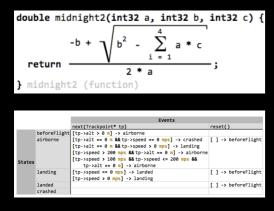
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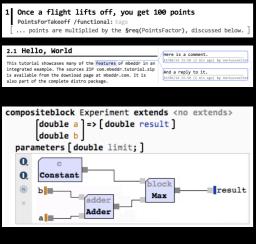


sorted: ☑ must be ok: □ hide ok ones: □
last updated: May 7, 2014 (4 months ago) by markusvoelter

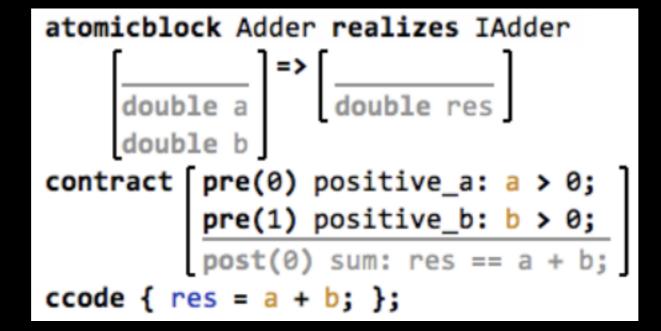
## FlightJudgementRules

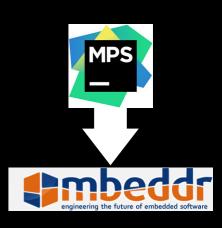
FasterThan100.impl (1) 24	
FasterThan200.impl (1) 33	2
InitialNoPoints.inital (1)	

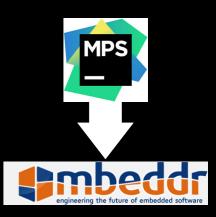


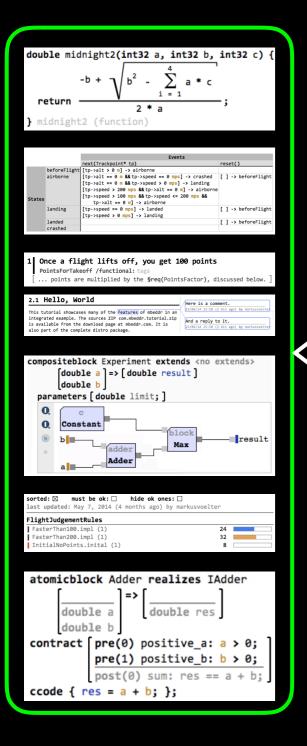


sorted: ⊠ must be ok: □ hide ok ones: □									
last updated: May 7, 2014 (4 months ago) by markusvoelter									
FlightJudgementRules									
FasterThan100.impl (1) 24									
FasterThan200.impl (1) 32									
InitialNoPoints.inital (1) 8									



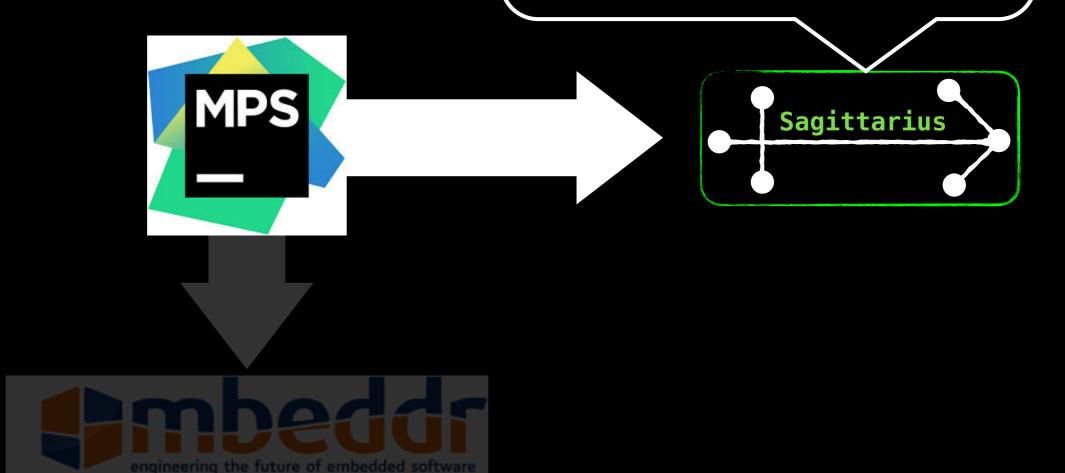


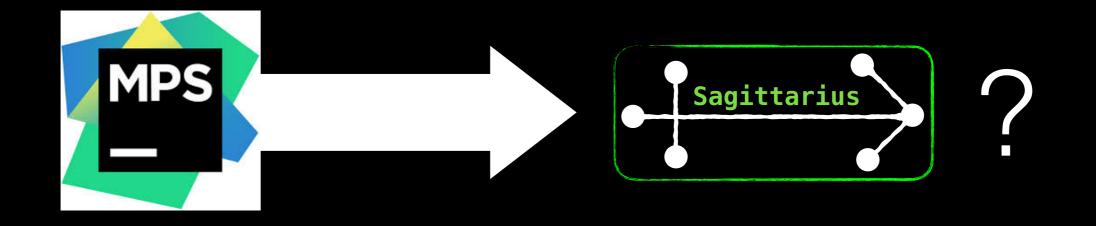




all notations and sub-languages can be **composed** flexibly... even with existing languages such as C, Java, ...

we shall use MPS to build a model analysis framework as a seamless extension to Java





- 1. Get to know a modern and promising language workbench
- 2. Learn how to build, extend, and compose languages in a **model-driven** manner
- 3. Practice being **creative** in a team