Executable concepts

We call executable such concepts that can be specified by some expressions and calculated. In modeling tools developed by No Magic, executable are:

- Validation rules - that are predefined or custom constraints having a purpose to validate a model or particular model elements.
- Derived properties - properties that are automatically calculated from the other properties.
- Smart packages - that are special collections of model elements.
- Executable opaque behaviors - reusable expression fragments callable form other executable concepts.
- Metric definitions - calculate aggregate parameters of models.
- Macros - a script that is created using a particular script language. With the help of macros, you can control items that are allowed in Developer Guide.
- Opaque behaviors - a behavior with implementation-specific semantics.

In a modeling tool, executable concepts are defined in one of the languages that our modeling tool can evaluate:

- StructuredExpression - a graphical way to construct expressions out of predefined blocks.
- Object Constraint Language.
- Binary - an expression that is written in Java, compiled and added to our modeling tool with a plugin.
- One of the following scripting languages:

    - Groovy
    - JavaScript
    - JavaScript Rhino
    - Jython

> ⓘ **Additional scripting languages**
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> Additional scripting languages can be plugged into our modeling tool, if they have JSR-223-compliant implementation.

You can test and evaluate your expressions with the help of the Expression Evaluation tool.

Related pages

- Object Constraint Language