## **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:
  - o Groovy
  - JavaScript
  - JavaScript Rhino
  - o Jython



## Additional scripting languages

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