

BUILDING BLOCKS / supported-scripts



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BUILDING BLOCKS / Supported scripts

Supported scripts

Scripts are used to define and run actions but also properties inside nodes. For now, the following script languages are supported:

- Python (Jython)
- DMN
- MVEL
- Groovy
- JavaScript (Nashorn Engine)

Scripting Language	Version
Python (Jython)	2.7.0



Scripting Language	Version
DMN	1.3
MVEL	2.4.10
Groovy	3.0.8
Nashorn engine (JavaScript)	15.4

Python



We use **Jython**.

Jython is an implementation of the high-level, dynamic, object-oriented language Python seamlessly integrated with the Java platform. Jython is an open-source solution.

Properties:

- Supports Python 2.7 most common python libs can be imported, ex: math, time, etc.
- Java libs can also be imported: details here

Useful links:



» Python 2.7.18 documentation

» Jython

» Jython FAQs

DMN

Decision Model and Notation (DMN) is a standard for Business Decision Management.

FLOWX uses BPMN.io (based on **camunda-engine-dmn** version **7.14.0**) which is built on DMN 1.3 standards.

Properties:

camunda-engine-dmn supports DMN 1.3, including Decision Tables, Decision Literal Expressions, Decision Requirements Graphs, and the Friendly Enough Expression Language (FEEL)

Useful links:

» Decision Model and Notation (DMN)

» DMN 1.3 specs



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More information:

» Intro to DMN

» DMN Business Rule Action

MVEL

MVEL is a powerful expression language for Java-based applications. It provides a plethora of features and is suited for everything from the smallest property binding and extraction, to full-blown scripts.

• FLOWX uses mvel2 - 2.4.10 version

Useful links:

» Mvel documentation

» Maven repository: Mvel 2.4.0 final

More information:



» Intro to MVEL

Groovy

Groovy is a multi-faceted language for the Java platform. The language can be used to combine Java modules, extend existing Java applications and write new applications

We use and recommend **Groovy 3.0.8** version, using **groovy-jsr223** engine.

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Groovy has multiple ways of integrating with Java, some of which provide richer options than available with **JSR-223** (e.g. greater configurability and more security control). **JSR-223** is recommended when you need to keep the choice of language used flexible and you don't require integration mechanisms not supported by **JSR-223**.

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JSR-223 (spec) is a standard scripting API for Java Virtual Machine (JVM) languages . The JVM languages provide varying levels of support for the JSR-223 API and interoperability with the Java runtime.

Useful links:

» Groovy Language Documentation



» [Java] Class GroovyScriptEngineImpl

Nashorn Engine (JavaScript)

Nashorn engine is an open source implementation of the ECMAScript Edition 5.1 Language Specification. It also implements many new features introduced in ECMAScript 6 including template strings; let, const, and block scope; iterators and for.of loops; Map, Set, WeakMap, and WeakSet data types; symbols; and binary and octal literals. It is written in Java and runs on the Java Virtual Machine.

Latest version of **Nashorn** is **15.4**, available from Maven Central. You can check the changelog to see what's new.

Useful links:

» GitHub - Nashorn

» OpenJDK - Nashorn

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