

# J

A	B	C	D	E	F	G	H	I	J	K
L	M	N	O	P	Q	R	S	T	U	V
W	X	Y	Z	.						

(J) **10** terms

## Java Created Sep 28, 2016 (22:28)

*Synonym(s):* JRE

A software language and platform developed by Sun Microsystems. Ignition is written using the Java language. In order to run a program written in Java, you must have the JRE (Java Runtime Environment) installed on your computer. There are versions of the JRE for pretty much every conceivable operating system, which makes programs written in Java very portable. Because of this, Ignition can be installed on Windows, OSX, and Linux operating systems.

Scripting in Ignition does not use Java, instead it uses the Jython language. This means you script with Python, but have access to some parts of Java.

## JDBC Created Sep 28, 2016 (22:28)

*Synonym(s):* JDBC Driver

The Java Database Connectivity (JDBC) API gives Java access to many databases. Many JDBC drivers have already been written, and can be loaded directly into Ignition to allow connections to a number of databases. Ignition comes with many big drivers already installed, i.e., MySQL Microsoft SQL Server, Oracle, etc.

## JVM Created Sep 28, 2016 (22:28)

Java Virtual Machine (JVM) is an abstraction layer between a Java application and the underlying platform. JVM is actually part of the Java Runtime Environment (JRE). It is the JRE (JVM plus base classes) that enables Java bytecode to run on any platform. A programmer can develop Java code on one system and can expect it to run on any other Java enabled system without any adjustment.

When we talk about 'the JVM' in Ignition, we are referring to the underlying layer of code that is running everything. See also Java, JRE.

## Jython Created Sep 28, 2016 (22:28)

Jython is the scripting language Ignition uses in the Designer. Jython (Java-Python) can be used in an event based system like Ignition and uses the Python functions and syntax, but allows users access to Java methods.

## JSON Created Nov 3, 2017 (16:46)

Synonym(s): JSON string

JavaScript Object Notation (JSON) is a language-independent data format. It's easy for humans to read and write and for machines to parse and generate. JSON was derived from JavaScript, but as of 2017 many programming languages include code to generate and parse JSON-format data.

Ignition uses the JSON format to store much of its data internally, including Tags and component properties.

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## JRE Created Oct 30, 2018 (20:24)

See Java Runtime Environment.

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## Java Database Connectivity Created Oct 30, 2018 (20:24)

See JDBC.

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## JavaScript Object Notation Created Oct 30, 2018 (20:24)

See JSON.

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## Java Virtual Machine. Created Oct 30, 2018 (20:24)

See JVM.

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## Java Runtime Environment Created Oct 30, 2018 (20:27)

Java Runtime Environment (JRE) enables users to run Java applications. Ignition is written using the Java language.

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