

# Action scripts APIs

Magic Model Analyst uses Java Scripting API to evaluate scripting languages. It is a scripting language-independent framework that uses script engines from Java code.

Magic Model Analyst supports the following scripting languages

- ECMLScript/JavaScript Nashorn (deprecated)
- Beanshell
- Groovy
- Python
- Ruby

Predefined variables in an Action script represent a set of variables defined by the script engine before a script evaluation is executed. You can refer to these predefined variables from any action script API.

Variable	Description
\$context\$ or _context_	A context or runtime object of a current script evaluation.
\$element\$ or _element_	An owner element of the script.
\$signal\$ or _signal_	The last signal Instance in an Event pool of a specified object.
\$state\$ or _state_	An active State of a context or a runtime object of a current script evaluation.
\$token\$ or _token_	A token value of an active model element.
self	Equivalent to \$context\$ or _context_.
sig_ + "property name"	The specified property value of the last signal.