| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractScriptEngine.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/script/Bindings.html) | [**FRAMES**](http://docs.google.com/index.html?javax/script/AbstractScriptEngine.html)    [**NO FRAMES**](http://docs.google.com/AbstractScriptEngine.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3rdcrjn) | [METHOD](#35nkun2) |

## **javax.script**

Class AbstractScriptEngine

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.script.AbstractScriptEngine**

**All Implemented Interfaces:** [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html)

public abstract class **AbstractScriptEngine**extends [Object](http://docs.google.com/java/lang/Object.html)implements [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html)

Provides a standard implementation for several of the variants of the eval method.

**eval(Reader)**

**eval(String)**

**eval(String, Bindings)**

**eval(Reader, Bindings)**

are implemented using the abstract methods

**eval(Reader,ScriptContext)** or **eval(String, ScriptContext)**

with a SimpleScriptContext.

A SimpleScriptContext is used as the default ScriptContext of the AbstractScriptEngine..

**Since:** 1.6

| **Field Summary** | |
| --- | --- |
| protected  [ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) | [**context**](http://docs.google.com/javax/script/AbstractScriptEngine.html#context)            The default ScriptContext of this AbstractScriptEngine. |

| **Fields inherited from interface javax.script.**[**ScriptEngine**](http://docs.google.com/javax/script/ScriptEngine.html) |
| --- |
| [ARGV](http://docs.google.com/javax/script/ScriptEngine.html#ARGV), [ENGINE](http://docs.google.com/javax/script/ScriptEngine.html#ENGINE), [ENGINE\_VERSION](http://docs.google.com/javax/script/ScriptEngine.html#ENGINE_VERSION), [FILENAME](http://docs.google.com/javax/script/ScriptEngine.html#FILENAME), [LANGUAGE](http://docs.google.com/javax/script/ScriptEngine.html#LANGUAGE), [LANGUAGE\_VERSION](http://docs.google.com/javax/script/ScriptEngine.html#LANGUAGE_VERSION), [NAME](http://docs.google.com/javax/script/ScriptEngine.html#NAME) |

| **Constructor Summary** | |
| --- | --- |
| [**AbstractScriptEngine**](http://docs.google.com/javax/script/AbstractScriptEngine.html#AbstractScriptEngine())()            Creates a new instance of AbstractScriptEngine using a SimpleScriptContext as its default ScriptContext. |
| [**AbstractScriptEngine**](http://docs.google.com/javax/script/AbstractScriptEngine.html#AbstractScriptEngine(javax.script.Bindings))([Bindings](http://docs.google.com/javax/script/Bindings.html) n)            Creates a new instance using the specified Bindings as the ENGINE\_SCOPE Bindings in the protected context field. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**eval**](http://docs.google.com/javax/script/AbstractScriptEngine.html#eval(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) reader)            eval(Reader) calls the abstract eval(Reader, ScriptContext) passing the value of the context field. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**eval**](http://docs.google.com/javax/script/AbstractScriptEngine.html#eval(java.io.Reader,%20javax.script.Bindings))([Reader](http://docs.google.com/java/io/Reader.html) reader, [Bindings](http://docs.google.com/javax/script/Bindings.html) bindings)            eval(Reader, Bindings) calls the abstract eval(Reader, ScriptContext) method, passing it a ScriptContext whose Reader, Writers and Bindings for scopes other that ENGINE\_SCOPE are identical to those members of the protected context field. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**eval**](http://docs.google.com/javax/script/AbstractScriptEngine.html#eval(java.lang.String))([String](http://docs.google.com/java/lang/String.html) script)            Same as eval(Reader) except that the abstract eval(String, ScriptContext) is used. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**eval**](http://docs.google.com/javax/script/AbstractScriptEngine.html#eval(java.lang.String,%20javax.script.Bindings))([String](http://docs.google.com/java/lang/String.html) script, [Bindings](http://docs.google.com/javax/script/Bindings.html) bindings)            Same as eval(Reader, Bindings) except that the abstract eval(String, ScriptContext) is used. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**get**](http://docs.google.com/javax/script/AbstractScriptEngine.html#get(java.lang.String))([String](http://docs.google.com/java/lang/String.html) key)            Gets the value for the specified key in the ENGINE\_SCOPE of the protected context field. |
| [Bindings](http://docs.google.com/javax/script/Bindings.html) | [**getBindings**](http://docs.google.com/javax/script/AbstractScriptEngine.html#getBindings(int))(int scope)            Returns the Bindings with the specified scope value in the protected context field. |
| [ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) | [**getContext**](http://docs.google.com/javax/script/AbstractScriptEngine.html#getContext())()            Returns the value of the protected context field. |
| protected  [ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) | [**getScriptContext**](http://docs.google.com/javax/script/AbstractScriptEngine.html#getScriptContext(javax.script.Bindings))([Bindings](http://docs.google.com/javax/script/Bindings.html) nn)            Returns a SimpleScriptContext. |
| void | [**put**](http://docs.google.com/javax/script/AbstractScriptEngine.html#put(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) key, [Object](http://docs.google.com/java/lang/Object.html) value)            Sets the specified value with the specified key in the ENGINE\_SCOPE Bindings of the protected context field. |
| void | [**setBindings**](http://docs.google.com/javax/script/AbstractScriptEngine.html#setBindings(javax.script.Bindings,%20int))([Bindings](http://docs.google.com/javax/script/Bindings.html) bindings, int scope)            Sets the Bindings with the corresponding scope value in the context field. |
| void | [**setContext**](http://docs.google.com/javax/script/AbstractScriptEngine.html#setContext(javax.script.ScriptContext))([ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) ctxt)            Sets the value of the protected context field to the specified ScriptContext. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Methods inherited from interface javax.script.**[**ScriptEngine**](http://docs.google.com/javax/script/ScriptEngine.html) |
| --- |
| [createBindings](http://docs.google.com/javax/script/ScriptEngine.html#createBindings()), [eval](http://docs.google.com/javax/script/ScriptEngine.html#eval(java.io.Reader,%20javax.script.ScriptContext)), [eval](http://docs.google.com/javax/script/ScriptEngine.html#eval(java.lang.String,%20javax.script.ScriptContext)), [getFactory](http://docs.google.com/javax/script/ScriptEngine.html#getFactory()) |

| **Field Detail** |
| --- |

### context

protected [ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) **context**

The default ScriptContext of this AbstractScriptEngine.

| **Constructor Detail** |
| --- |

### AbstractScriptEngine

public **AbstractScriptEngine**()

Creates a new instance of AbstractScriptEngine using a SimpleScriptContext as its default ScriptContext.

### AbstractScriptEngine

public **AbstractScriptEngine**([Bindings](http://docs.google.com/javax/script/Bindings.html) n)

Creates a new instance using the specified Bindings as the ENGINE\_SCOPE Bindings in the protected context field.

**Parameters:**n - The specified Bindings. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if n is null.

| **Method Detail** |
| --- |

### setContext

public void **setContext**([ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) ctxt)

Sets the value of the protected context field to the specified ScriptContext.

**Specified by:**[setContext](http://docs.google.com/javax/script/ScriptEngine.html#setContext(javax.script.ScriptContext)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**ctxt - The specified ScriptContext. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if ctxt is null.

### getContext

public [ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) **getContext**()

Returns the value of the protected context field.

**Specified by:**[getContext](http://docs.google.com/javax/script/ScriptEngine.html#getContext()) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Returns:**The value of the protected context field.

### getBindings

public [Bindings](http://docs.google.com/javax/script/Bindings.html) **getBindings**(int scope)

Returns the Bindings with the specified scope value in the protected context field.

**Specified by:**[getBindings](http://docs.google.com/javax/script/ScriptEngine.html#getBindings(int)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**scope - The specified scope **Returns:**The corresponding Bindings. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the value of scope is invalid for the type the protected context field.

### setBindings

public void **setBindings**([Bindings](http://docs.google.com/javax/script/Bindings.html) bindings,  
 int scope)

Sets the Bindings with the corresponding scope value in the context field.

**Specified by:**[setBindings](http://docs.google.com/javax/script/ScriptEngine.html#setBindings(javax.script.Bindings,%20int)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**bindings - The specified Bindings.scope - The specified scope. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the value of scope is invalid for the type the context field. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the bindings is null and the scope is ScriptContext.ENGINE\_SCOPE

### put

public void **put**([String](http://docs.google.com/java/lang/String.html) key,  
 [Object](http://docs.google.com/java/lang/Object.html) value)

Sets the specified value with the specified key in the ENGINE\_SCOPE Bindings of the protected context field.

**Specified by:**[put](http://docs.google.com/javax/script/ScriptEngine.html#put(java.lang.String,%20java.lang.Object)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**key - The specified key.value - The specified value. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if key is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if key is empty.

### get

public [Object](http://docs.google.com/java/lang/Object.html) **get**([String](http://docs.google.com/java/lang/String.html) key)

Gets the value for the specified key in the ENGINE\_SCOPE of the protected context field.

**Specified by:**[get](http://docs.google.com/javax/script/ScriptEngine.html#get(java.lang.String)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**key - The key whose value is to be returned **Returns:**The value for the specified key. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if key is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if key is empty.

### eval

public [Object](http://docs.google.com/java/lang/Object.html) **eval**([Reader](http://docs.google.com/java/io/Reader.html) reader,  
 [Bindings](http://docs.google.com/javax/script/Bindings.html) bindings)  
 throws [ScriptException](http://docs.google.com/javax/script/ScriptException.html)

eval(Reader, Bindings) calls the abstract eval(Reader, ScriptContext) method, passing it a ScriptContext whose Reader, Writers and Bindings for scopes other that ENGINE\_SCOPE are identical to those members of the protected context field. The specified Bindings is used instead of the ENGINE\_SCOPE Bindings of the context field.

**Specified by:**[eval](http://docs.google.com/javax/script/ScriptEngine.html#eval(java.io.Reader,%20javax.script.Bindings)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**reader - A Reader containing the source of the script.bindings - A Bindings to use for the ENGINE\_SCOPE while the script executes. **Returns:**The return value from eval(Reader, ScriptContext) **Throws:** [ScriptException](http://docs.google.com/javax/script/ScriptException.html) - if an error occurs in script. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if any of the parameters is null.

### eval

public [Object](http://docs.google.com/java/lang/Object.html) **eval**([String](http://docs.google.com/java/lang/String.html) script,  
 [Bindings](http://docs.google.com/javax/script/Bindings.html) bindings)  
 throws [ScriptException](http://docs.google.com/javax/script/ScriptException.html)

Same as eval(Reader, Bindings) except that the abstract eval(String, ScriptContext) is used.

**Specified by:**[eval](http://docs.google.com/javax/script/ScriptEngine.html#eval(java.lang.String,%20javax.script.Bindings)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**script - A String containing the source of the script.bindings - A Bindings to use as the ENGINE\_SCOPE while the script executes. **Returns:**The return value from eval(String, ScriptContext) **Throws:** [ScriptException](http://docs.google.com/javax/script/ScriptException.html) - if an error occurs in script. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if any of the parameters is null.

### eval

public [Object](http://docs.google.com/java/lang/Object.html) **eval**([Reader](http://docs.google.com/java/io/Reader.html) reader)  
 throws [ScriptException](http://docs.google.com/javax/script/ScriptException.html)

eval(Reader) calls the abstract eval(Reader, ScriptContext) passing the value of the context field.

**Specified by:**[eval](http://docs.google.com/javax/script/ScriptEngine.html#eval(java.io.Reader)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**reader - A Reader containing the source of the script. **Returns:**The return value from eval(Reader, ScriptContext) **Throws:** [ScriptException](http://docs.google.com/javax/script/ScriptException.html) - if an error occurs in script. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if any of the parameters is null.

### eval

public [Object](http://docs.google.com/java/lang/Object.html) **eval**([String](http://docs.google.com/java/lang/String.html) script)  
 throws [ScriptException](http://docs.google.com/javax/script/ScriptException.html)

Same as eval(Reader) except that the abstract eval(String, ScriptContext) is used.

**Specified by:**[eval](http://docs.google.com/javax/script/ScriptEngine.html#eval(java.lang.String)) in interface [ScriptEngine](http://docs.google.com/javax/script/ScriptEngine.html) **Parameters:**script - A String containing the source of the script. **Returns:**The return value from eval(String, ScriptContext) **Throws:** [ScriptException](http://docs.google.com/javax/script/ScriptException.html) - if an error occurrs in script. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if any of the parameters is null.

### getScriptContext

protected [ScriptContext](http://docs.google.com/javax/script/ScriptContext.html) **getScriptContext**([Bindings](http://docs.google.com/javax/script/Bindings.html) nn)

Returns a SimpleScriptContext. The SimpleScriptContext:

* Uses the specified Bindings for its ENGINE\_SCOPE
* Uses the Bindings returned by the abstract getGlobalScope method as its GLOBAL\_SCOPE
* Uses the Reader and Writer in the default ScriptContext of this ScriptEngine

A SimpleScriptContext returned by this method is used to implement eval methods using the abstract eval(Reader,Bindings) and eval(String,Bindings) versions.

**Parameters:**nn - Bindings to use for the ENGINE\_SCOPE **Returns:**The SimpleScriptContext

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractScriptEngine.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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