| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ScriptContext.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**](http://docs.google.com/javax/script/Invocable.html)   [**NEXT CLASS**](http://docs.google.com/javax/script/ScriptEngine.html) | [**FRAMES**](http://docs.google.com/index.html?javax/script/ScriptContext.html)    [**NO FRAMES**](http://docs.google.com/ScriptContext.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [METHOD](#4d34og8) |

## **javax.script**

Interface ScriptContext

**All Known Implementing Classes:** [SimpleScriptContext](http://docs.google.com/javax/script/SimpleScriptContext.html)

public interface **ScriptContext**

The interface whose implementing classes are used to connect Script Engines with objects, such as scoped Bindings, in hosting applications. Each scope is a set of named attributes whose values can be set and retrieved using the ScriptContext methods. ScriptContexts also expose Readers and Writers that can be used by the ScriptEngines for input and output.

**Since:** 1.6

| **Field Summary** | |
| --- | --- |
| static int | [**ENGINE\_SCOPE**](http://docs.google.com/javax/script/ScriptContext.html#ENGINE_SCOPE)            EngineScope attributes are visible during the lifetime of a single ScriptEngine and a set of attributes is maintained for each engine. |
| static int | [**GLOBAL\_SCOPE**](http://docs.google.com/javax/script/ScriptContext.html#GLOBAL_SCOPE)            GlobalScope attributes are visible to all engines created by same ScriptEngineFactory. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getAttribute**](http://docs.google.com/javax/script/ScriptContext.html#getAttribute(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Retrieves the value of the attribute with the given name in the scope occurring earliest in the search order. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getAttribute**](http://docs.google.com/javax/script/ScriptContext.html#getAttribute(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) name, int scope)            Gets the value of an attribute in a given scope. |
| int | [**getAttributesScope**](http://docs.google.com/javax/script/ScriptContext.html#getAttributesScope(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Get the lowest scope in which an attribute is defined. |
| [Bindings](http://docs.google.com/javax/script/Bindings.html) | [**getBindings**](http://docs.google.com/javax/script/ScriptContext.html#getBindings(int))(int scope)            Gets the Bindings associated with the given scope in this ScriptContext. |
| [Writer](http://docs.google.com/java/io/Writer.html) | [**getErrorWriter**](http://docs.google.com/javax/script/ScriptContext.html#getErrorWriter())()            Returns the Writer used to display error output. |
| [Reader](http://docs.google.com/java/io/Reader.html) | [**getReader**](http://docs.google.com/javax/script/ScriptContext.html#getReader())()            Returns a Reader to be used by the script to read input. |
| [List](http://docs.google.com/java/util/List.html)<[Integer](http://docs.google.com/java/lang/Integer.html)> | [**getScopes**](http://docs.google.com/javax/script/ScriptContext.html#getScopes())()            Returns immutable List of all the valid values for scope in the ScriptContext. |
| [Writer](http://docs.google.com/java/io/Writer.html) | [**getWriter**](http://docs.google.com/javax/script/ScriptContext.html#getWriter())()            Returns the Writer for scripts to use when displaying output. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**removeAttribute**](http://docs.google.com/javax/script/ScriptContext.html#removeAttribute(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) name, int scope)            Remove an attribute in a given scope. |
| void | [**setAttribute**](http://docs.google.com/javax/script/ScriptContext.html#setAttribute(java.lang.String,%20java.lang.Object,%20int))([String](http://docs.google.com/java/lang/String.html) name, [Object](http://docs.google.com/java/lang/Object.html) value, int scope)            Sets the value of an attribute in a given scope. |
| void | [**setBindings**](http://docs.google.com/javax/script/ScriptContext.html#setBindings(javax.script.Bindings,%20int))([Bindings](http://docs.google.com/javax/script/Bindings.html) bindings, int scope)            Associates a Bindings instance with a particular scope in this ScriptContext. |
| void | [**setErrorWriter**](http://docs.google.com/javax/script/ScriptContext.html#setErrorWriter(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) writer)            Sets the Writer used to display error output. |
| void | [**setReader**](http://docs.google.com/javax/script/ScriptContext.html#setReader(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the Reader for scripts to read input . |
| void | [**setWriter**](http://docs.google.com/javax/script/ScriptContext.html#setWriter(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) writer)            Sets the Writer for scripts to use when displaying output. |

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

### ENGINE\_SCOPE

static final int **ENGINE\_SCOPE**

EngineScope attributes are visible during the lifetime of a single ScriptEngine and a set of attributes is maintained for each engine.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.script.ScriptContext.ENGINE_SCOPE)

### GLOBAL\_SCOPE

static final int **GLOBAL\_SCOPE**

GlobalScope attributes are visible to all engines created by same ScriptEngineFactory.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.script.ScriptContext.GLOBAL_SCOPE)

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

### setBindings

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

Associates a Bindings instance with a particular scope in this ScriptContext. Calls to the getAttribute and setAttribute methods must map to the get and put methods of the Bindings for the specified scope.

**Parameters:**bindings - The Bindings to associate with the given scopescope - The scope **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If no Bindings is defined for the specified scope value in ScriptContexts of this type. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if value of scope is ENGINE\_SCOPE and the specified Bindings is null.

### getBindings

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

Gets the Bindings associated with the given scope in this ScriptContext.

**Returns:**The associated Bindings. Returns null if it has not been set. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If no Bindings is defined for the specified scope value in ScriptContext of this type.

### setAttribute

void **setAttribute**([String](http://docs.google.com/java/lang/String.html) name,  
 [Object](http://docs.google.com/java/lang/Object.html) value,  
 int scope)

Sets the value of an attribute in a given scope.

**Parameters:**name - The name of the attribute to setvalue - The value of the attributescope - The scope in which to set the attribute **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the name is empty or if the scope is invalid. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the name is null.

### getAttribute

[Object](http://docs.google.com/java/lang/Object.html) **getAttribute**([String](http://docs.google.com/java/lang/String.html) name,  
 int scope)

Gets the value of an attribute in a given scope.

**Parameters:**name - The name of the attribute to retrieve.scope - The scope in which to retrieve the attribute. **Returns:**The value of the attribute. Returns null is the name does not exist in the given scope. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the name is empty or if the value of scope is invalid. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the name is null.

### removeAttribute

[Object](http://docs.google.com/java/lang/Object.html) **removeAttribute**([String](http://docs.google.com/java/lang/String.html) name,  
 int scope)

Remove an attribute in a given scope.

**Parameters:**name - The name of the attribute to removescope - The scope in which to remove the attribute **Returns:**The removed value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the name is empty or if the scope is invalid. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the name is null.

### getAttribute

[Object](http://docs.google.com/java/lang/Object.html) **getAttribute**([String](http://docs.google.com/java/lang/String.html) name)

Retrieves the value of the attribute with the given name in the scope occurring earliest in the search order. The order is determined by the numeric value of the scope parameter (lowest scope values first.)

**Parameters:**name - The name of the the attribute to retrieve. **Returns:**The value of the attribute in the lowest scope for which an attribute with the given name is defined. Returns null if no attribute with the name exists in any scope. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the name is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the name is empty.

### getAttributesScope

int **getAttributesScope**([String](http://docs.google.com/java/lang/String.html) name)

Get the lowest scope in which an attribute is defined.

**Parameters:**name - Name of the attribute . **Returns:**The lowest scope. Returns -1 if no attribute with the given name is defined in any scope. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if name is empty.

### getWriter

[Writer](http://docs.google.com/java/io/Writer.html) **getWriter**()

Returns the Writer for scripts to use when displaying output.

**Returns:**The Writer.

### getErrorWriter

[Writer](http://docs.google.com/java/io/Writer.html) **getErrorWriter**()

Returns the Writer used to display error output.

**Returns:**The Writer

### setWriter

void **setWriter**([Writer](http://docs.google.com/java/io/Writer.html) writer)

Sets the Writer for scripts to use when displaying output.

**Parameters:**writer - The new Writer.

### setErrorWriter

void **setErrorWriter**([Writer](http://docs.google.com/java/io/Writer.html) writer)

Sets the Writer used to display error output.

**Parameters:**writer - The Writer.

### getReader

[Reader](http://docs.google.com/java/io/Reader.html) **getReader**()

Returns a Reader to be used by the script to read input.

**Returns:**The Reader.

### setReader

void **setReader**([Reader](http://docs.google.com/java/io/Reader.html) reader)

Sets the Reader for scripts to read input .

**Parameters:**reader - The new Reader.

### getScopes

[List](http://docs.google.com/java/util/List.html)<[Integer](http://docs.google.com/java/lang/Integer.html)> **getScopes**()

Returns immutable List of all the valid values for scope in the ScriptContext.

**Returns:**list of scope values

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ScriptContext.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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| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [METHOD](#4d34og8) |

[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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