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

## **javax.script**

Interface Invocable

public interface **Invocable**

The optional interface implemented by ScriptEngines whose methods allow the invocation of procedures in scripts that have previously been executed.

**Since:** 1.6

| **Method Summary** | |
| --- | --- |
| | <T> T | | --- | | [**getInterface**](http://docs.google.com/javax/script/Invocable.html#getInterface(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> clasz)            Returns an implementation of an interface using functions compiled in the interpreter. |
| | <T> T | | --- | | [**getInterface**](http://docs.google.com/javax/script/Invocable.html#getInterface(java.lang.Object,%20java.lang.Class))([Object](http://docs.google.com/java/lang/Object.html) thiz, [Class](http://docs.google.com/java/lang/Class.html)<T> clasz)            Returns an implementation of an interface using member functions of a scripting object compiled in the interpreter. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**invokeFunction**](http://docs.google.com/javax/script/Invocable.html#invokeFunction(java.lang.String,%20java.lang.Object...))([String](http://docs.google.com/java/lang/String.html) name, [Object](http://docs.google.com/java/lang/Object.html)... args)            Used to call top-level procedures and functions defined in scripts. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**invokeMethod**](http://docs.google.com/javax/script/Invocable.html#invokeMethod(java.lang.Object,%20java.lang.String,%20java.lang.Object...))([Object](http://docs.google.com/java/lang/Object.html) thiz, [String](http://docs.google.com/java/lang/String.html) name, [Object](http://docs.google.com/java/lang/Object.html)... args)            Calls a method on a script object compiled during a previous script execution, which is retained in the state of the ScriptEngine. |

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

### invokeMethod

[Object](http://docs.google.com/java/lang/Object.html) **invokeMethod**([Object](http://docs.google.com/java/lang/Object.html) thiz,  
 [String](http://docs.google.com/java/lang/String.html) name,  
 [Object](http://docs.google.com/java/lang/Object.html)... args)  
 throws [ScriptException](http://docs.google.com/javax/script/ScriptException.html),  
 [NoSuchMethodException](http://docs.google.com/java/lang/NoSuchMethodException.html)

Calls a method on a script object compiled during a previous script execution, which is retained in the state of the ScriptEngine.

**Parameters:**name - The name of the procedure to be called.thiz - If the procedure is a member of a class defined in the script and thiz is an instance of that class returned by a previous execution or invocation, the named method is called through that instance.args - Arguments to pass to the procedure. The rules for converting the arguments to scripting variables are implementation-specific. **Returns:**The value returned by the procedure. The rules for converting the scripting variable returned by the script method to a Java Object are implementation-specific. **Throws:** [ScriptException](http://docs.google.com/javax/script/ScriptException.html) - if an error occurrs during invocation of the method. [NoSuchMethodException](http://docs.google.com/java/lang/NoSuchMethodException.html) - if method with given name or matching argument types cannot be found. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the method name is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified thiz is null or the specified Object is does not represent a scripting object.

### invokeFunction

[Object](http://docs.google.com/java/lang/Object.html) **invokeFunction**([String](http://docs.google.com/java/lang/String.html) name,  
 [Object](http://docs.google.com/java/lang/Object.html)... args)  
 throws [ScriptException](http://docs.google.com/javax/script/ScriptException.html),  
 [NoSuchMethodException](http://docs.google.com/java/lang/NoSuchMethodException.html)

Used to call top-level procedures and functions defined in scripts.

**Parameters:**args - Arguments to pass to the procedure or function **Returns:**The value returned by the procedure or function **Throws:** [ScriptException](http://docs.google.com/javax/script/ScriptException.html) - if an error occurrs during invocation of the method. [NoSuchMethodException](http://docs.google.com/java/lang/NoSuchMethodException.html) - if method with given name or matching argument types cannot be found. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if method name is null.

### getInterface

<T> T **getInterface**([Class](http://docs.google.com/java/lang/Class.html)<T> clasz)

Returns an implementation of an interface using functions compiled in the interpreter. The methods of the interface may be implemented using the invokeFunction method.

**Parameters:**clasz - The Class object of the interface to return. **Returns:**An instance of requested interface - null if the requested interface is unavailable, i. e. if compiled functions in the ScriptEngine cannot be found matching the ones in the requested interface. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified Class object is null or is not an interface.

### getInterface

<T> T **getInterface**([Object](http://docs.google.com/java/lang/Object.html) thiz,  
 [Class](http://docs.google.com/java/lang/Class.html)<T> clasz)

Returns an implementation of an interface using member functions of a scripting object compiled in the interpreter. The methods of the interface may be implemented using the invokeMethod method.

**Parameters:**thiz - The scripting object whose member functions are used to implement the methods of the interface.clasz - The Class object of the interface to return. **Returns:**An instance of requested interface - null if the requested interface is unavailable, i. e. if compiled methods in the ScriptEngine cannot be found matching the ones in the requested interface. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified Class object is null or is not an interface, or if the specified Object is null or does not represent a scripting object.

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

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).