
WebScriptObject Class Reference

Networking, Internet, & Web: Web Client



2009-04-08



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WebScriptObject Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/WebKit.framework
Availability	Available in Mac OS X v10.3.9 and later.
Companion guide	WebKit Objective-C Programming Guide
Declared in	WebScriptObject.h
Related sample code	Birthdays CallJS Reminders

Overview

A `WebScriptObject` object is an Objective-C wrapper for a scripting object passed to your application from the scripting environment.

You can not create a `WebScriptObject` object directly. You get a window `WebScriptObject` object by sending `windowScriptObject` to your `WebView` object.

You can use key-value coding methods—for example, `setValue:forKey:` and `valueForKey:`—to get and set properties of a `WebScriptObject` object. You can also access properties by index using the [setWebScriptValueAtIndex:value:](#) (page 9) and [webScriptValueAtIndex:](#) (page 10) methods. Use the [removeWebScriptKey:](#) (page 8) method to remove a scripting object property.

Not all properties and methods of a class are exported. Use the `setValue:forUndefinedKey:` and `valueForUndefinedKey:` methods to intercept access to properties that are not exported. Similarly, use the `invokeUndefinedMethodFromWebScript:withArguments:` method to intercept method invocations that are not exported.

If you want access to properties and methods defined in your own classes, use the methods in the `WebScripting` informal protocol to specify the properties and methods the class should export to WebKit's JavaScript environment.

Use the [callWebScriptMethod:withArguments:](#) (page 7) and [evaluateWebScript:](#) (page 7) methods to execute scripts in the scripting environment.

Tasks

Getting and Setting Properties

- [JSObject](#) (page 8)
Returns the JavaScript object corresponding to the receiver.
- [removeWebScriptKey:](#) (page 8)
Removes a property from a scripting environment.
- [webScriptValueAtIndex:](#) (page 10)
Returns the value of a property at the specified index.
- [setWebScriptValueAtIndex:value:](#) (page 9)
Sets the value of a property at the specified index.

Executing Scripts

- [callWebScriptMethod:withArguments:](#) (page 7)
Returns the result of executing a method in the scripting environment.
- [evaluateWebScript:](#) (page 7)
Returns the result of evaluating a script in the scripting environment.

Raising Exceptions

- + [throwException:](#) (page 6)
Raises an exception in the current script execution context.
- [setException:](#) (page 9)
Raises a scripting environment exception in the context of the current object.

Getting a String Representation

- [stringRepresentation](#) (page 9)
Returns a string representation of the receiver.

Class Methods

throwException:

Raises an exception in the current script execution context.

+ (BOOL)throwException:(NSString *)*exceptionMessage*

Parameters

exceptionMessage

The exception message.

Return Value

YES if successful, NO otherwise.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

- [setException:](#) (page 9)

Declared In

WebScriptObject.h

Instance Methods

callWebScriptMethod:withArguments:

Returns the result of executing a method in the scripting environment.

```
- (id)callWebScriptMethod:(NSString *)namewithArguments:(NSArray *)args
```

Parameters

name

The name of the method to invoke.

args

The values to pass to the method.

Return Value

The return value of the method. Returns `WebUndefined` if an exception is thrown in the JavaScript environment or the method has no return value.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

- [evaluateWebScript:](#) (page 7)

Related Sample Code

QT Capture Widget

WebKitPluginWithJavaScript

Declared In

WebScriptObject.h

evaluateWebScript:

Returns the result of evaluating a script in the scripting environment.

- (id)evaluateWebScript:(NSString *)*script*

Parameters

script

The script to evaluate.

Return Value

The scripting object. The format of the script is dependent on the target scripting environment. Returns `WebUndefined` if an exception is thrown in the JavaScript environment or there is no return value.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

- [callWebScriptMethod:withArguments:](#) (page 7)

Related Sample Code

Reminders

Declared In

WebScriptObject.h

JSObject

Returns the JavaScript object corresponding to the receiver.

- (JSObjectRef)JSObject

Return Value

The JavaScript object corresponding to the receiver in the JavaScriptCore C API.

Availability

Available in Mac OS X v10.4.11 and later.

Declared In

WebScriptObject.h

removeWebScriptKey:

Removes a property from a scripting environment.

- (void)removeWebScriptKey:(NSString *)*name*

Parameters

name

Property to remove.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

- [webScriptValueAtIndex:](#) (page 10)

- [setWebScriptValueAtIndex:value:](#) (page 9)

Declared In

WebScriptObject.h

setException:

Raises a scripting environment exception in the context of the current object.

- (void)setException:(NSString *)*description*

Parameters

description

Description of the exception.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

+ [throwException:](#) (page 6)

Declared In

WebScriptObject.h

setWebScriptValueAtIndex:value:

Sets the value of a property at the specified index.

- (void)setWebScriptValueAtIndex:(unsigned) *index*value:(id) *value*

Parameters

index

The index of the property.

value

The value of the property.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

- [removeWebScriptKey:](#) (page 8)

- [webScriptValueAtIndex:](#) (page 10)

Declared In

WebScriptObject.h

stringRepresentation

Returns a string representation of the receiver.

- (NSString *)stringRepresentation

Return Value

The string representation of the receiver.

Discussion

The coercion of nonstring objects is dependent on the scripting environment.

Availability

Available in Mac OS X v10.3.9 and later.

Declared In

WebScriptObject.h

webScriptValueAtIndex:

Returns the value of a property at the specified index.

- (id)webScriptValueAtIndex:(unsigned) *index*

Parameters

index

The index of the property.

Return Value

The value of a property at *index*. Returns `WebUndefined` if an exception is thrown in the JavaScript environment.

Discussion

Accessing property values by index is dependent on the scripting environment.

Availability

Available in Mac OS X v10.3.9 and later.

See Also

- [removeWebScriptKey:](#) (page 8)
- [setWebScriptValueAtIndex:value:](#) (page 9)

Declared In

WebScriptObject.h

Document Revision History

This table describes the changes to *WebScriptObject Class Reference*.

Date	Notes
2009-04-08	Added separate parameter and return value descriptions.
2008-10-15	Minor edits throughout.
2008-06-19	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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