
NSScriptCommandDescription Class Reference

Interapplication Communication





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Apple Inc.
1 Infinite Loop
Cupertino, CA 95014
408-996-1010

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NSScriptCommandDescription Class Reference

Inherits from	NSObject
Conforms to	NSCoding NSObject (NSObject)
Framework	/System/Library/Frameworks/Foundation.framework
Availability	Available in Mac OS X v10.0 and later.
Companion guide	Cocoa Scripting Guide
Declared in	NSScriptCommandDescription.h

Overview

An instance of `NSScriptCommandDescription` describes a script command that a Cocoa application supports.

A scriptable application provides scriptability information that describes the commands and objects scripters can use in scripts that target the application. An application's scripting information is collected automatically by an instance of `NSScriptSuiteRegistry`, which creates an `NSScriptCommandDescription` for each command it finds, caches these objects in memory, and installs a command handler for each command.

A script command instance stores the name, class, argument types, and return type of a command. For example, commands in AppleScript's Core suite include `clone`, `count`, `create`, `delete`, `exists`, and `move`.

The public methods of `NSScriptCommandDescription` are used primarily by Cocoa's built-in scripting support in responding to Apple events that target the application. Although you can subclass the `NSScriptCommandDescription` class, it is unlikely that you would need to do so, or to create instances of it.

Adopted Protocols

NSCoding

- `encodeWithCoder:`
- `initWithCoder:`

Tasks

Initializing a Script Command Description

- [initWithSuiteName:commandName:dictionary:](#) (page 10)
Initializes and returns a newly allocated instance of `NSScriptCommandDescription`.

Getting Basic Information About the Command

- [appleEventClassCode](#) (page 7)
Returns the four-character code for the Apple event class of the receiver's command.
- [appleEventCode](#) (page 7)
Returns the four-character code for the Apple event ID of the receiver's command.
- [commandClassName](#) (page 9)
Returns the name of the class that will be instantiated to handle the command.
- [commandName](#) (page 9)
Returns the name of the command.
- [suiteName](#) (page 12)
Returns the name of the suite that contains the command described by the receiver.

Getting Command Argument Information

- [appleEventCodeForArgumentWithName:](#) (page 8)
Returns the Apple event code for the specified command argument of the receiver.
- [argumentNames](#) (page 9)
Returns the names (or keys) for all arguments of the receiver's command.
- [isOptionalArgumentWithName:](#) (page 11)
Returns a Boolean value that indicates whether the command argument identified by the specified argument key is an optional argument.
- [typeForArgumentWithName:](#) (page 12)
Returns the type of the command argument identified by the specified key.

Getting Command Return-Type Information

- [appleEventCodeForReturnType](#) (page 8)
Returns the Apple event code that identifies the command's return type.
- [returnType](#) (page 11)
Returns the return type of the command.

Creating Commands

- [createCommandInstance](#) (page 10)
Creates and returns an instance of the command object described by the receiver.
- [createCommandInstanceWithZone:](#) (page 10)
Creates and returns an instance of the command object described by the receiver in the specified memory zone.

Instance Methods

appleEventClassCode

Returns the four-character code for the Apple event class of the receiver's command.

```
- (FourCharCode)appleEventClassCode
```

Return Value

The Apple event code associated with the receiver's command. This is the primary code used to identify the command in Apple events.

Discussion

In an Apple event that specifies a script command, two four character codes—the event class and event ID—together identify the command. You use this method to obtain the event class. You use [appleEventCode](#) (page 7) to obtain the event ID.

For example, commands in AppleScript's Core suite, such as `clone`, `count`, and `create`, have an event class code of 'core'. This code and the event ID code returned by `appleEventCode` together specify the necessary information for identifying and dispatching an Apple event.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSScriptCommandDescription.h`

appleEventCode

Returns the four-character code for the Apple event ID of the receiver's command.

```
- (FourCharCode)appleEventCode
```

Return Value

The code for the event ID of the receiver's command.

Discussion

This value of the event ID returned by this method, together with the event class code returned by [appleEventClassCode](#) (page 7), specifies the necessary information for identifying and dispatching an Apple event.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [appleEventCodeForArgumentWithName:](#) (page 8)
- [appleEventCodeForReturnType](#) (page 8)

Declared In

NSScriptCommandDescription.h

appleEventCodeForArgumentWithName:

Returns the Apple event code for the specified command argument of the receiver.

```
- (FourCharCode)appleEventCodeForArgumentWithName:(NSString *)argumentName
```

Parameters

argumentName

The argument name (used as a key) for which to obtain the corresponding Apple event code.

Return Value

The code for the specified argument.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [argumentNames](#) (page 9)

Declared In

NSScriptCommandDescription.h

appleEventCodeForReturnType

Returns the Apple event code that identifies the command's return type.

```
- (FourCharCode)appleEventCodeForReturnType
```

Return Value

The event code for the command's return type.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [appleEventCodeForArgumentWithName:](#) (page 8)
- [returnType](#) (page 11)

Declared In

NSScriptCommandDescription.h

argumentNames

Returns the names (or keys) for all arguments of the receiver's command.

- (NSArray *)argumentNames

Return Value

The array of argument names. If there are no arguments for the command, returns an empty array.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptCommandDescription.h

commandClassName

Returns the name of the class that will be instantiated to handle the command.

- (NSString *)commandClassName

Return Value

The Objective-C class name (for example, "NSGetCommand"). This is always `NSScriptCommand` or a subclass.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [commandName](#) (page 9)

Declared In

NSScriptCommandDescription.h

commandName

Returns the name of the command.

- (NSString *)commandName

Return Value

The command name as it appears in the application's scriptability information; may be different from what is displayed to the scripter.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [commandClassName](#) (page 9)

Declared In

NSScriptCommandDescription.h

createCommandInstance

Creates and returns an instance of the command object described by the receiver.

```
- (NSScriptCommand *)createCommandInstance
```

Return Value

The command object, instantiated from `NSScriptCommand` or a subclass.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSScriptCommandDescription.h`

createCommandInstanceWithZone:

Creates and returns an instance of the command object described by the receiver in the specified memory zone.

```
- (NSScriptCommand *)createCommandInstanceWithZone:(NSZone *)zone
```

Parameters

zone

The memory zone from which to allocate the command.

Return Value

The command object, instantiated from `NSScriptCommand` or a subclass.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSScriptCommandDescription.h`

initWithSuiteName:commandName:dictionary:

Initializes and returns a newly allocated instance of `NSScriptCommandDescription`.

```
- (id)initWithSuiteName:(NSString *)suiteName commandName:(NSString *)commandName  
dictionary:(NSDictionary *)commandDeclaration
```

Parameters

suiteName

The name of the suite (in the application's scriptability information) that the command belongs to. For example, "AppName Suite".

commandName

The name of the script command that this instance describes.

commandDeclaration

A command declaration dictionary of the sort that is valid in script suite property list files. This dictionary provides information about the command such as its argument names and types and return type (if any).

Return Value

The initialized command description instance. Returns `nil` if the event constant or class name for the command description is missing; also returns `nil` if the return type or argument values are of the wrong type.

Discussion

This method registers `self` with the application's global instance of `NSScriptSuiteRegistry` and also registers all command arguments with the registry.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSScriptCommandDescription.h`

isOptionalArgumentWithName:

Returns a Boolean value that indicates whether the command argument identified by the specified argument key is an optional argument.

```
- (BOOL)isOptionalArgumentWithName:(NSString *)argumentName
```

Parameters

argumentName

Argument name (used as a key) that identifies the command argument to examine.

Return Value

YES if the specified argument exists and is optional; otherwise, NO.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [argumentNames](#) (page 9)

Declared In

`NSScriptCommandDescription.h`

returnType

Returns the return type of the command.

```
- (NSString *)returnType
```

Return Value

The receiver's command return type; for example, "NSNumber" or "NSDictionary".

Availability

Available in Mac OS X v10.0 and later.

See Also

- [appleEventCodeForReturnType](#) (page 8)

Declared In

NSScriptCommandDescription.h

suiteName

Returns the name of the suite that contains the command described by the receiver.

- (NSString *)suiteName

Return Value

The receiver's suite name. Within an application's scriptability information, named suites contain related sets of information.

Availability

Available in Mac OS X v10.0 and later.

See Also- [appleEventCode](#) (page 7)**Declared In**

NSScriptCommandDescription.h

typeForArgumentWithName:

Returns the type of the command argument identified by the specified key.

- (NSString *)typeForArgumentWithName:(NSString *)*argumentName***Parameters***argumentName*

Argument name (used as a key) that identifies the command argument to examine.

Return ValueThe type of the specified command argument. Returns `nil` if there is no such argument.**Availability**

Available in Mac OS X v10.0 and later.

Declared In

NSScriptCommandDescription.h

Document Revision History

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

Date	Notes
2007-04-10	Revised parameter descriptions to conform to reference consistency guidelines.
2006-05-23	First publication of this content as a separate document.

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