NSComparisonMethods Protocol Reference

Cocoa > Scripting & Automation



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NSComparisonMethods Protocol Reference

(informal protocol)

Framework /System/Library/Frameworks/Foundation.framework

Companion guide Cocoa Scripting Guide

Declared in NSScriptWhoseTests.h

Overview

This informal protocol defines a set of default comparison methods useful for the comparisons in NSSpecifierTest.

If you have scriptable objects that need to perform comparisons for scripting purposes, you may need to implement some of the methods declared in NSScriptingComparisonMethods. The default implementation provided for many of these methods by NSObject is appropriate for objects that implement a single comparison method whose selector, signature, and description match the following:

- (NSComparisonResult)compare:(id)object;

This method should return NSOrderedAscending if the receiver is less than object, NSOrderedDescending if the receiver is greater than object, and NSOrderedSame if the receiver and object are equal. For example, NSString does not implement most of the methods declared in this informal protocol, but NSString objects still handle messages conforming to this protocol properly because NSString implements a compare: method that meets the necessary requirements. Cocoa also includes appropriate compare: method implementations for the NSDate, NSDecimalNumber, and NSValue classes.

Tasks

Performing Comparisons

- doesContain: (page 6)

Returns a Boolean value that indicates whether the receiver contains a given object.

- isCaseInsensitiveLike: (page 6)

Returns a Boolean value that indicates whether receiver is considered to be "like" a given string when the case of characters in the receiver is ignored.

- isEqualTo: (page 7)

Returns a Boolean value that indicates whether the receiver is equal to another given object.

- isGreaterThan: (page 7)

Returns a Boolean value that indicates whether the receiver is greater than another given object.

- isGreaterThanOrEqualTo: (page 8)

Returns a Boolean value that indicates whether the receiver is greater than or equal to another given object.

- isLessThan: (page 8)

Returns a Boolean value that indicates whether the receiver is less than another given object.

- isLessThanOrEqualTo: (page 9)

Returns a Boolean value that indicates whether the receiver is less than or equal to another given object.

- isLike: (page 10)

Returns a Boolean value that indicates whether the receiver is "like" another given object.

isNotEqualTo: (page 10)

Returns a Boolean value that indicates whether the receiver is not equal to another given object.

Instance Methods

doesContain:

Returns a Boolean value that indicates whether the receiver contains a given object.

- (BOOL)doesContain:(id)object

Parameters

object

The object to search for in the receiver.

Return Value

YES if the receiver contains object, otherwise NO.

Discussion

Currently, doesContain: messages are never sent to any object from within Cocoa itself.

The default implementation for this method provided by NSObject returns YES if the receiver is actually an NSArray object and an indexOfObjectIdenticalTo: message sent to the same object would return something other than NSNotFound.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

isCaseInsensitiveLike:

Returns a Boolean value that indicates whether receiver is considered to be "like" a given string when the case of characters in the receiver is ignored.

- (BOOL)isCaseInsensitiveLike:(NSString *)aString

Parameters

aString

The string with which to compare the receiver.

Return Value

YES if the receiver is considered to be "like" a String when the case of characters in the receiver is ignored, otherwise NO.

Discussion

Currently, isCaseInsensitiveLike: messages are never sent to any object from within Cocoa itself.

The default implementation for this method provided by NSObject returns NO. NSString also provides an implementation of this method, which returns YES if the receiver matches a pattern described by aString, ignoring the case of the characters in the receiver.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

isEqualTo:

Returns a Boolean value that indicates whether the receiver is equal to another given object.

- (BOOL)isEqualTo:(id)object

Parameters

object

The object with which to compare the receiver.

Return Value

YES if the receiver is equal to object, otherwise NO. In effect returns NO if receiver is nil.

Discussion

During the evaluation of an NSWhoseSpecifier object that contains a test whose operator is NSEqualToComparison, an isEqualTo: message may be sent to each potentially specified object, if neither the potentially specified object nor the object being tested against implements a scriptingIsEqualTo: method.

The default implementation for this method provided by NSObject returns YES if an isEqualTo: message sent to the same object would return YES.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

isGreaterThan:

Returns a Boolean value that indicates whether the receiver is greater than another given object.

- (BOOL)isGreaterThan:(id)object

Instance Methods 7

Parameters

ob.iect

The object with which to compare the receiver.

Return Value

YES if the receiver is greater than object, otherwise NO.

Discussion

During the evaluation of an NSWhoseSpecifier object that contains a test whose operator is NSGreaterThanComparison, an isGreaterThan: message may be sent to each potentially specified object, if the potentially specified object does not implement a scriptingIsGreaterThan: method and the object being tested against does not implement a scriptingIsLessThanOrEqualTo: method.

The default implementation for this method provided by NSObject returns YES if a compare: message sent to the same object would return NSOrderedDescending.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

is Greater Than Or Equal To:

Returns a Boolean value that indicates whether the receiver is greater than or equal to another given object.

- (BOOL)isGreaterThanOrEqualTo:(id)object

Parameters

ob.iect

The object with which to compare the receiver.

Return Value

YES if the receiver is greater than or equal to object, otherwise NO.

Discussion

During the evaluation of an NSWhoseSpecifier object that contains a test whose operator is NSGreaterThanOrEqualToComparison, anisGreaterThanOrEqualTo: message may be sent to each potentially specified object, if the potentially specified object does not implement a scriptingIsGreaterThanOrEqualTo: method and the object being tested against does not implement a scriptingIsLessThan: method.

The default implementation for this method provided by NSObject returns YES if a compare: message sent to the same object would return NSOrderedSame or NSOrderedDescending.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

isLessThan:

Returns a Boolean value that indicates whether the receiver is less than another given object.

- (BOOL)isLessThan:(id)object

Parameters

object

The object with which to compare the receiver.

Return Value

YES if the receiver is less than object, otherwise NO.

Discussion

During the evaluation of an NSWhoseSpecifier object that contains a test whose operator is NSLessThanComparison, an isLessThan: message may be sent to each potentially specified object, if the potentially specified object does not implement a scriptingIsLessThan: method and the object being tested against does not implement a scriptingIsGreaterThanOrEqualTo: method.

The default implementation for this method provided by NSObject method returns YES if a compare: message sent to the same object would return NSOrderedAscending.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

is Less Than Or Equal To:

Returns a Boolean value that indicates whether the receiver is less than or equal to another given object.

- (BOOL)isLessThanOrEqualTo:(id)object

Parameters

object

The object with which to compare the receiver.

Return Value

YES if the receiver is less than or equal to object, otherwise NO.

Discussion

During the evaluation of an NSWhoseSpecifier object that contains a test whose operator is NSLessThanOrEqualToComparison, an isLessThanOrEqualTo: message may be sent to each potentially specified object, if the potentially specified object does not implement a scriptingIsLessThanOrEqualTo: method and the object being tested against does not implement a scriptingIsGreaterThan: method.

The default implementation for this method provided by NSObject method returns YES if a compare: message sent to the same object would return NSOrderedAscending or NSOrderedSame.

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Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

Instance Methods

isLike:

Returns a Boolean value that indicates whether the receiver is "like" another given object.

```
- (BOOL) is Like: (NSString *) object
```

Parameters

object

The object with which to compare the receiver.

Return Value

YES if the receiver is considered to be "like" object, otherwise NO.

Discussion

Currently, isLike: messages are never sent to any object from within Cocoa itself.

The default implementation for this method provided by NSObject method returns NO. NSString also provides an implementation of this method, which returns YES if the receiver matches a pattern described by object.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

isNotEqualTo:

Returns a Boolean value that indicates whether the receiver is not equal to another given object.

```
- (BOOL)isNotEqualTo:(id)object
```

Parameters

object

The object with which to compare the receiver.

Return Value

YES if the receiver is not equal to object, otherwise NO.

Discussion

Currently, is Not Equal To: messages are never sent to any object from within Cocoa itself.

The default implementation for this method provided by NSObject method returns YES if an isEqual: message sent to the same object would return NO.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSScriptWhoseTests.h

Document Revision History

This table describes the changes to NSComparisonMethods Protocol Reference.

Date	Notes
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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isLike: <NSObject> instance method 10

isNotEqualTo: <NSObject> instance method 10
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