NSCompoundPredicate Class Reference

Cocoa > Data Management



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NSCompoundPredicate Class Reference

Inherits fromNSPredicate : NSObjectConforms toNSCoding (NSPredicate)

NSCopying (NSPredicate) NSObject (NSObject)

Framework /System/Library/Frameworks/Foundation.framework

Availability Available in Mac OS X v10.4 and later.

Companion guide Predicate Programming Guide

Declared in NSCompoundPredicate.h

Related sample code CoreRecipes

iSpend

PredicateEditorSample SpotlightFortunes

Overview

NSCompoundPredicate is a subclass of NSPredicate used to represent logical "gate" operations (AND/OR/NOT) and comparison operations.

Comparison operations are based on two expressions, as represented by instances of the NSExpression class. Expressions are created for constant values, key paths, and so on.

On Mac OS X v10.5 and later, NSCompoundPredicate allows you to create an AND or OR compound predicate (but not a NOT compound predicate) using an array with 0,1, or more elements. A compound predicate with 0 elements evaluates to TRUE, and a compound predicate with a single sub-predicate evaluates to the truth of its sole subpredicate.

Tasks

Constructors

+ andPredicateWithSubpredicates: (page 6)

Returns a new predicate formed by AND-ing the predicates in a given array.

```
+ notPredicateWithSubpredicate: (page 6)
```

Returns a new predicate formed by NOT-ing a given predicate.

+ orPredicateWithSubpredicates: (page 7)

Returns a new predicate formed by OR-ing the predicates in a given array.

- initWithType:subpredicates: (page 8)

Returns the receiver initialized to a given type using predicates from a given array.

Getting Information About a Compound Predicate

compoundPredicateType (page 7)

Returns the predicate type for the receiver.

- subpredicates (page 8)

Returns the array of the receiver's subpredicates.

Class Methods

and Predicate With Subpredicates:

Returns a new predicate formed by AND-ing the predicates in a given array.

+ (NSPredicate *)andPredicateWithSubpredicates:(NSArray *)subpredicates

Parameters

subpredicates

An array of NSPredicate objects.

Return Value

A new predicate formed by AND-ing the predicates specified by subpredicates.

Availability

Available in Mac OS X v10.4 and later.

Related Sample Code

iSpend

PredicateEditorSample

SpotlightFortunes

Declared In

NSCompoundPredicate.h

not Predicate With Subpredicate:

Returns a new predicate formed by NOT-ing a given predicate.

+ (NSPredicate *)notPredicateWithSubpredicate:(NSPredicate *)predicate

Parameters

predicate

A predicate.

Return Value

A new predicate formed by NOT-ing the predicate specified by predicate.

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSCompoundPredicate.h

orPredicateWithSubpredicates:

Returns a new predicate formed by OR-ing the predicates in a given array.

+ (NSPredicate *)orPredicateWithSubpredicates:(NSArray *)subpredicates

Parameters

subpredicates

An array of NSPredicate objects.

Return Value

A new predicate formed by OR-ing the predicates specified by subpredicates.

Availability

Available in Mac OS X v10.4 and later.

Related Sample Code

iSpend

Declared In

NSCompoundPredicate.h

Instance Methods

compoundPredicateType

Returns the predicate type for the receiver.

- (NSCompoundPredicateType)compoundPredicateType

Return Value

The predicate type for the receiver.

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSCompoundPredicate.h

initWithType:subpredicates:

Returns the receiver initialized to a given type using predicates from a given array.

- (id)initWithType:(NSCompoundPredicateType)type subpredicates:(NSArray
 *)subpredicates

Parameters

type

The type of the new predicate.

subpredicates

An array of NSPredicate objects.

Return Value

The receiver initialized with its type set to type and subpredicates array to subpredicates.

Availability

Available in Mac OS X v10.4 and later.

Related Sample Code

PredicateEditorSample

Declared In

NSCompoundPredicate.h

subpredicates

Returns the array of the receiver's subpredicates.

- (NSArray *)subpredicates

Return Value

The array of the receiver's subpredicates.

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSCompoundPredicate.h

Constants

Compound Predicate Types

These constants describe the possible types of NSCompoundPredicate.

```
typedef enum {
   NSNotPredicateType = 0,
   NSAndPredicateType,
   NSOrPredicateType,
} NSCompoundPredicateType;
```

Constants

 ${\tt NSNotPredicateType}$

A logical NOT predicate.

Available in Mac OS X v10.4 and later.

Declared in NSCompoundPredicate.h.

NSAndPredicateType

A logical AND predicate.

Available in Mac OS X v10.4 and later.

Declared in NSCompoundPredicate.h.

NSOrPredicateType

A logical OR predicate.

Available in Mac OS X v10.4 and later.

Declared in NSCompoundPredicate.h.

Declared In

NSCompoundPredicate.h

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Document Revision History

This table describes the changes to NSCompoundPredicate Class Reference.

Date	Notes
2006-07-04	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

Document Revision History

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