
NSArray Additions

Class Cluster Description

Enterprise Objects Framework adds a few methods to the Foundation Framework's NSArray class cluster, for filtering objects according to an EOQualifier and sorting them according to a series of EOSortOrderings. It also adds methods for key-value coding, with special support for aggregates.

NSArray

Inherits From:	NSObject
Declared In:	EOControl/EOQualifier.h EOControl/EOSortOrdering.h EOControl/EOClassDescription.h EOControl/EOKeyValueCoding.h

Class Description

Enterprise Objects Framework adds two methods to the Foundation Framework's NSArray class, for filtering objects according to an EOQualifier and sorting them according to a series of EOSortOrderings.

Instance Methods

computeAvgForKey:

– (id)computeAvgForKey:(NSString *)key

Returns as an NSDecimalNumber the average of the values the receiver's objects have for *key*. If the array is empty, returns **nil**.

See also: – valueForKey:, – computeCountForKey:, – computeMaxForKey:, – computeMinForKey:, – computeSumForKey:

computeCountForKey:

– (id)computeCountForKey:(NSString *)key

Returns the number of elements in the receiver as an NSNumber; the argument *key* is ignored.

See also: – valueForKey:, – computeAvgForKey:, – computeMaxForKey:, – computeMinForKey:, – computeSumForKey:

computeMaxForKey:

– (id)computeMaxForKey:(NSString *)*key*

Returns the value for *key* that is the highest for all of the objects in the receiver. If the array is empty, returns **nil**.

See also: – valueForKey:, – computeAvgForKey:, – computeCountForKey:, – computeMinForKey:, – computeSumForKey:

computeMinForKey:

– (id)computeMinForKey:(NSString *)*key*

Returns the object in the receiver that has the lowest value for *key*. If the array is empty, returns **nil**.

See also: – valueForKey:, – computeAvgForKey:, – computeCountForKey:, – computeMaxForKey:, – computeSumForKey:

computeSumForKey:

– (id)computeSumForKey:(NSString *)*key*

Returns as an NSDecimalNumber the sum of the values the receiver's objects have for *key*.

See also: – valueForKey:, – computeAvgForKey:, – computeCountForKey:, – computeMaxForKey:, – computeMinForKey:, – computeSumForKey:

filteredArrayUsingQualifier:

– (NSArray *)filteredArrayUsingQualifier:(EOQualifier *)*aQualifier*

Returns a new NSArray that contains only the objects from the receiver matching *aQualifier*.

shallowCopy

– (NSArray *)shallowCopy

Returns an NSArray that represents a shallow copy of the receiver. Used by Enterprise Objects Framework to snapshot to-many relationship properties.

sortedArrayUsingKeyOrderArray:

– (NSArray *)**sortedArrayUsingKeyOrderArray:**(NSArray *)*orderings*

Creates and returns a new NSArray by sorting the objects of the receiver according to the EOSortOrderings in *orderings*. The objects are compared by extracting the sort properties using the added NSObject method **valueForKey:** and sending them **compare:** messages.

See also: – **sortUsingKeyOrderArray:** (NSMutableArray)

valueForKey:

– (id)**valueForKey:**(NSString *)*key*

When passed a “normal” key, returns an array composed of the results of sending **valueForKey:** to all elements of the array. When passed a key prefixed with “@”, returns a single value that is the result of invoking an aggregate function on the values of the array.

For instance, if this method were passed the key @sum.budget, it would invoke `computeSumForKey:@"budget"` on the array, which would add the values for the budget keys for all of the objects in the array. The returned value would be the sum of all of the objects’ budgets. The following aggregates are defined: @sum, @count, @avg, @min, @max. You can extend this set by adding methods to NSArray of the form **computeNameForKey:**.

See also: – **computeAvgForKey:**, – **computeCountForKey:**, – **computeMaxForKey:**,
– **computeMinForKey:**, – **computeSumForKey:**

NSMutableArray

Inherits From: NSObject

Declared In: EOControl/EOSortOrdering.h

NSMutableArray has one added method for sorting its elements according to a series of EOSortOrderings.

Instance Methods

sortUsingKeyOrderArray:

– (void)**sortUsingKeyOrderArray:**(NSArray *)*orderings*

Sorts the objects of the receiver according to the EOSortOrderings in *orderings*. The objects are compared by extracting the sort properties using the added NSObject method **valueForKey:** and sending them **compare:** messages.

See also: – **sortedArrayUsingKeyOrderArray:** (NSArray)