# **NSEntityDescription Class Reference**

**Data Management** 



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versionHash 21 versionHashModifier 21

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# NSEntityDescription Class Reference

Inherits from NSObject
Conforms to NSCoding

**NSCopying** 

NSFastEnumeration NSObject (NSObject)

Framework /System/Library/Frameworks/CoreData.framework

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

**Declared in** NSEntityDescription.h

Companion guides Core Data Programming Guide

Core Data Utility Tutorial

Related sample code Core Data HTML Store

CoreRecipes

CustomAtomicStoreSubclass Departments and Employees

QTMetadataEditor

### Overview

An NSEntityDescription object describes an entity in Core Data. Entities are to managed objects what Class is to id, or—to use a database analogy—what tables are to rows. An instance specifies an entity's name, its properties (its attributes and relationships, expressed by instances of NSAttributeDescription and NSRelationshipDescription) and the class by which it is represented.

An NSEntityDescription object is associated with a specific class whose instances are used to represent entries in a persistent store in applications using the Core Data Framework. Minimally, an entity description should have:

- A name
- The name of a managed object class

(If an entity has no managed object class name, it defaults to NSManagedObject.)

You usually define entities in an NSManagedObjectModel using the data modeling tool in Xcode. NSEntityDescription objects are primarily used by the Core Data Framework for mapping entries in the persistent store to managed objects in the application. You are not likely to interact with them directly unless

you are specifically working with models. Like the other major modeling classes, NSEntityDescription provides you with a user dictionary in which you can store any application-specific information related to the entity.

### **Editing Entity Descriptions**

Entity descriptions are editable until they are used by an object graph manager. This allows you to create or modify them dynamically. However, once a description is used (when the managed object model to which it belongs is associated with a persistent store coordinator), it *must not* (indeed cannot) be changed. This is enforced at runtime: any attempt to mutate a model or any of its sub-objects after the model is associated with a persistent store coordinator causes an exception to be thrown. If you need to modify a model that is in use, create a copy, modify the copy, and then discard the objects with the old model.

If you want to create an entity hierarchy, you need to consider the relevant API. You can only set an entity's sub-entities (see setSubentities: (page 18)), you cannot set an entity's super-entity directly. To set a super-entity for a given entity, you must therefore set an array of subentities on that super entity and include the current entity in that array. So, the entity hierarchy needs to be built top-down.

### Using Entity Descriptions in Dictionaries

```
NSEntityDescription's copy (page 11) method returns an entity such that 
[[entity copy] isEqual: entity] == NO
```

Since NSDictionary copies its keys and requires that keys both conform to the NSCopying protocol and have the property that copy returns an object for which [[object copy] is Equal: object] is true, you should not use entities as keys in a dictionary. Instead, you should either use the entity's name as the key, or use a map table (NSMapTable) with retain callbacks.

### **Fast Enumeration**

In Mac OS v10.5 and later and on iOS, NSEntityDescription supports the NSFastEnumeration protocol. You can use this to enumerate over an entity's properties, as illustrated in the following example:

```
NSEntityDescription *anEntity = ...;
for (NSPropertyDescription *property in anEntity) {
    // property is each instance of NSPropertyDescription in anEntity in turn
}
```

### **Tasks**

### Information About an Entity Description

```
    name (page 13)
    Returns the entity name of the receiver.
```

```
- setName: (page 17)
```

Sets the entity name of the receiver.

managedObjectModel (page 13)

Returns the managed object model with which the receiver is associated.

managedObjectClassName (page 12)

Returns the name of the class that represents the receiver's entity.

- setManagedObjectClassName: (page 16)

Sets the name of the class that represents the receiver's entity.

- renaming Identifier (page 15)

Returns the renaming identifier for the receiver.

setRenamingIdentifier: (page 18)

Sets the renaming identifier for the receiver.

isAbstract (page 11)

Returns a Boolean value that indicates whether the receiver represents an abstract entity.

- setAbstract: (page 16)

Sets whether the receiver represents an abstract entity.

userInfo (page 20)

Returns the user info dictionary of the receiver.

- setUserInfo: (page 18)

Sets the user info dictionary of the receiver.

### Managing Inheritance

```
- subentitiesByName (page 20)
```

Returns the sub-entities of the receiver in a dictionary.

- subentities (page 19)

Returns an array containing the sub-entities of the receiver.

- setSubentities: (page 18)

Sets the subentities of the receiver.

- superentity (page 20)

Returns the super-entity of the receiver.

isKindOfEntity: (page 12)

Returns a Boolean value that indicates whether the receiver is a sub-entity of another given entity.

### **Working with Properties**

```
- propertiesByName (page 14)
```

Returns a dictionary containing the properties of the receiver.

- properties (page 13)

Returns an array containing the properties of the receiver.

- setProperties: (page 17)

Sets the properties array of the receiver.

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- attributesByName (page 11)

Returns the attributes of the receiver in a dictionary, where the keys in the dictionary are the attribute names.

- relationshipsByName (page 14)

Returns the relationships of the receiver in a dictionary, where the keys in the dictionary are the relationship names.

- relationshipsWithDestinationEntity: (page 15)

Returns an array containing the relationships of the receiver where the entity description of the relationship is a given entity.

### Retrieving an Entity with a Given Name

+ entityForName:inManagedObjectContext: (page 8)

Returns the entity with the specified name from the managed object model associated with the specified managed object context's persistent store coordinator.

### **Creating a New Managed Object**

+ insertNewObjectForEntityForName:inManagedObjectContext: (page 9)

Creates, configures, and returns an instance of the class for the entity with a given name.

### **Supporting Versioning**

versionHash (page 21)

Returns the version hash for the receiver.

- versionHashModifier (page 21)

Returns the version hash modifier for the receiver.

- setVersionHashModifier: (page 19)

Sets the version hash modifier for the receiver.

### **Copying Entity Descriptions**

- copy (page 11)

Returns a copy of the receiver

## **Class Methods**

### entity For Name: in Managed Object Context:

Returns the entity with the specified name from the managed object model associated with the specified managed object context's persistent store coordinator.

```
+ (NSEntityDescription *)entityForName:(NSString *)entityName
inManagedObjectContext:(NSManagedObjectContext *)context
```

#### **Parameters**

entityName

The name of an entity.

context

The managed object context to use.

#### **Return Value**

The entity with the specified name from the managed object model associated with *context*'s persistent store coordinator.

#### Discussion

This method is functionally equivalent to the following code example.

```
NSManagedObjectModel *managedObjectModel = [[context persistentStoreCoordinator]
managedObjectModel];
NSEntityDescription *entity = [[managedObjectModel entitiesByName]
objectForKey:entityName];
return entity;
```

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- entitiesByName

#### **Related Sample Code**

Core Data HTML Store

CoreRecipes

Departments and Employees

OTMetadataEditor

#### **Declared In**

NSEntityDescription.h

### insert New Object For Entity For Name: in Managed Object Context:

Creates, configures, and returns an instance of the class for the entity with a given name.

```
+ (id)insertNewObjectForEntityForName:(NSString *)entityName inManagedObjectContext:(NSManagedObjectContext *)context
```

#### **Parameters**

entityName

The name of an entity.

context

The managed object context to use.

#### **Return Value**

A new, autoreleased, fully configured instance of the class for the entity named *entityName*. The instance has its entity description set and is inserted it into *context*.

Class Methods 9

#### Discussion

This method makes it easy for you to create instances of a given entity without worrying about the details of managed object creation.

The method is particularly useful on Mac OS X v10.4, as you can use it to create a new managed object without having to know the class used to represent the entity. This is especially beneficial early in the development life-cycle when classes and class names are volatile. The method is conceptually similar to the following code example.

#### On Mac OS X v10.5 and later and on iOS, you can instead use

initWithEntity:insertIntoManagedObjectContext: which returns an instance of the appropriate class for the entity. The equivalent code for Mac OS X v10.5 and on iOS is as follows:

**Important:** Despite the presence of the word " Tinathe method name, in a reference counted environment you are not responsible for releasing the returned object. ("new" is not the *first* word in the method name—see Memory Management Rules).

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
- initWithEntity:insertIntoManagedObjectContext:
```

#### **Related Sample Code**

CoreRecipes
Departments and Employees
OTMetadataEditor

#### **Declared In**

NSEntityDescription.h

### **Instance Methods**

### attributesByName

Returns the attributes of the receiver in a dictionary, where the keys in the dictionary are the attribute names.

- (NSDictionary \*)attributesByName

#### **Return Value**

The attributes of the receiver in a dictionary, where the keys in the dictionary are the attribute names and the values are instances of NSAttributeDescription.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- propertiesByName (page 14)
- relationshipsByName (page 14)
- relationshipsWithDestinationEntity: (page 15)

#### **Related Sample Code**

Core Data HTML Store

CoreRecipes

CustomAtomicStoreSubclass

#### **Declared In**

NSEntityDescription.h

#### copy

Returns a copy of the receiver

- (id)copy

#### **Return Value**

A copy of the receiver.

#### **Special Considerations**

NSEntityDescription'limbplementation of copy returns an entity such that:

```
[[entity copy] isEqual:entity] == NO
```

You should not, therefore, use an entity as a key in a dictionary (see "Using Entity Descriptions in Dictionaries" (page 6)).

#### isAbstract

Returns a Boolean value that indicates whether the receiver represents an abstract entity.

- (BOOL)isAbstract

#### **Return Value**

YES if the receiver represents an abstract entity, otherwise NO.

#### Discussion

An abstract entity might be Shape, with concrete sub-entities such as Rectangle, Triangle, and Circle.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
- setAbstract: (page 16)
```

#### **Declared In**

NSEntityDescription.h

### isKindOfEntity:

Returns a Boolean value that indicates whether the receiver is a sub-entity of another given entity.

```
- (BOOL) is KindOfEntity: (NSEntityDescription *) entity
```

#### **Parameters**

entity

An entity.

#### **Return Value**

YES if the receiver is a sub-entity of entity, otherwise NO.

#### **Availability**

Available in Mac OS X v10.5 and later.

#### **Declared In**

NSEntityDescription.h

### managed Object Class Name

Returns the name of the class that represents the receiver's entity.

```
- (NSString *)managedObjectClassName
```

#### **Return Value**

The name of the class that represents the receiver's entity.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
- setManagedObjectClassName: (page 16)
```

#### **Declared In**

NSEntityDescription.h

### managedObjectModel

Returns the managed object model with which the receiver is associated.

- (NSManagedObjectModel \*)managedObjectModel

#### **Return Value**

The managed object model with which the receiver is associated.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
setEntities: (NSManagedObjectModel)
setEntities:forConfiguration::(NSManagedObjectModel)
```

#### **Declared In**

NSEntityDescription.h

#### name

Returns the entity name of the receiver.

```
- (NSString *)name
```

#### **Return Value**

The entity name of receiver.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
- setName: (page 17)
```

#### **Related Sample Code**

Core Data HTML Store

CoreRecipes

Managed Object Data Formatter

#### **Declared In**

NSEntityDescription.h

### properties

Returns an array containing the properties of the receiver.

```
- (NSArray *)properties
```

#### **Return Value**

An array containing the properties of the receiver. The elements in the array are instances of NSAttributeDescription, NSRelationshipDescription, and/or NSFetchedPropertyDescription.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- propertiesByName (page 14)
- setProperties: (page 17)
- attributesByName (page 11)
- relationshipsByName (page 14)

#### **Related Sample Code**

ManagedObjectDataFormatter

#### **Declared In**

NSEntityDescription.h

### properties By Name

Returns a dictionary containing the properties of the receiver.

- (NSDictionary \*)propertiesByName

#### **Return Value**

A dictionary containing the receiver's properties, where the keys in the dictionary are the property names and the values are instances of NSAttributeDescription and/or NSRelationshipDescription.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- attributesByName (page 11)
- relationshipsByName (page 14)
- relationshipsWithDestinationEntity: (page 15)

#### **Declared In**

NSEntityDescription.h

### relationshipsByName

Returns the relationships of the receiver in a dictionary, where the keys in the dictionary are the relationship names.

- (NSDictionary \*)relationshipsByName

#### **Return Value**

The relationships of the receiver in a dictionary, where the keys in the dictionary are the relationship names and the values are instances of NSRelationshipDescription.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- attributesByName (page 11)

```
- propertiesByName (page 14)
```

- relationshipsWithDestinationEntity: (page 15)

#### **Related Sample Code**

Core Data HTML Store
CoreRecipes
CustomAtomicStoreSubclass

#### **Declared In**

NSEntityDescription.h

### relationshipsWithDestinationEntity:

Returns an array containing the relationships of the receiver where the entity description of the relationship is a given entity.

- (NSArray \*)relationshipsWithDestinationEntity:(NSEntityDescription \*)entity

#### **Parameters**

entity

An entity description.

#### **Return Value**

An array containing the relationships of the receiver where the entity description of the relationship is *entity*. Elements in the array are instances of NSRelationshipDescription.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- attributesByName (page 11)
- propertiesByName (page 14)
- relationshipsByName (page 14)

#### **Declared In**

NSEntityDescription.h

### renaming Identifier

Returns the renaming identifier for the receiver.

- (NSString \*)renamingIdentifier

#### **Return Value**

The renaming identifier for the receiver.

#### Discussion

The renaming identifier is used to resolve naming conflicts between models. When creating a mapping model between two managed object models, a source entity and a destination entity that share the same identifier indicate that an entity mapping should be configured to migrate from the source to the destination.

If you do not set this value, the identifier will return the entity's name.

Instance Methods 2010-04-06 | © 2010 Apple Inc. All Rights Reserved.

#### **Availability**

Available in Mac OS X v10.6 and later.

#### See Also

```
- setRenamingIdentifier: (page 18)
```

#### **Declared In**

NSEntityDescription.h

#### setAbstract:

Sets whether the receiver represents an abstract entity.

```
- (void)setAbstract:(BOOL)flag
```

#### **Parameters**

flag

A Boolean value indicating whether the receiver is abstract (YES) or not (NO).

### **Special Considerations**

This method raises an exception if the receiver's model has been used by an object graph manager.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
isAbstract (page 11)
```

#### **Declared In**

NSEntityDescription.h

### setManagedObjectClassName:

Sets the name of the class that represents the receiver's entity.

```
- (void)setManagedObjectClassName:(NSString *)name
```

#### **Parameters**

name

The name of the class that represents the receiver's entity.

#### Discussion

The class specified by name must either be, or inherit from, NSManagedObject.

#### **Special Considerations**

This method raises an exception if the receiver's model has been used by an object graph manager.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

managedObjectClassName (page 12)

#### **Declared In**

 ${\sf NSEntityDescription.h}$ 

#### setName:

Sets the entity name of the receiver.

```
- (void)setName:(NSString *)name
```

#### **Parameters**

name

The name of the entity the receiver describes.

#### **Special Considerations**

This method raises an exception if the receiver's model has been used by an object graph manager.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- name (page 13)

#### **Declared In**

NSEntityDescription.h

### setProperties:

Sets the properties array of the receiver.

```
- (void)setProperties:(NSArray *)properties
```

#### **Parameters**

properties

An array of properties (instances of NSAttributeDescription, NSRelationshipDescription, and/or NSFetchedPropertyDescription).

#### **Special Considerations**

This method raises an exception if the receiver's model has been used by an object graph manager.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- properties (page 13)
- propertiesByName (page 14)
- attributesByName (page 11)
- relationshipsByName (page 14)

#### **Declared In**

NSEntityDescription.h

### setRenamingIdentifier:

Sets the renaming identifier for the receiver.

- (void)setRenamingIdentifier:(NSString \*)value

#### **Parameters**

value

The renaming identifier for the receiver.

#### **Availability**

Available in Mac OS X v10.6 and later.

#### See Also

- renamingIdentifier (page 15)

#### **Declared In**

NSEntityDescription.h

#### setSubentities:

Sets the subentities of the receiver.

- (void)setSubentities:(NSArray \*)array

#### **Parameters**

array

An array containing sub-entities for the receiver. Objects in the array must be instances of NSEntityDescription.

#### **Special Considerations**

This method raises an exception if the receiver's model has been used by an object graph manager.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- subentities (page 19)
- subentitiesByName (page 20)
- superentity (page 20)

#### **Declared In**

NSEntityDescription.h

#### setUserInfo:

Sets the user info dictionary of the receiver.

- (void)setUserInfo:(NSDictionary \*)dictionary

#### **Parameters**

dictionary

A user info dictionary.

#### **Special Considerations**

This method raises an exception if the receiver's model has been used by an object graph manager.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- userInfo (page 20)

#### **Declared In**

NSEntityDescription.h

#### setVersionHashModifier:

Sets the version hash modifier for the receiver.

- (void)setVersionHashModifier:(NSString \*)modifierString

#### **Parameters**

modifierString

The version hash modifier for the receiver.

This value is included in the version hash for the entity. You use it to mark or denote an entity as being a different "version" than another even if all of the values which affect persistence are equal. (Such a difference is important in cases where, for example, the structure of an entity is unchanged but the format or content of data has changed.)

#### **Availability**

Available in Mac OS X v10.5 and later.

#### See Also

- versionHash (page 21)
- versionHashModifier (page 21)

#### **Declared In**

NSEntityDescription.h

#### subentities

Returns an array containing the sub-entities of the receiver.

```
- (NSArray *)subentities
```

#### **Return Value**

An array containing the receiver's sub-entities. The sub-entities are instances of NSEntityDescription.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

- setSubentities: (page 18)
- subentitiesByName (page 20)

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```
- superentity (page 20)
```

#### **Declared In**

NSEntityDescription.h

### subentitiesByName

Returns the sub-entities of the receiver in a dictionary.

- (NSDictionary \*)subentitiesByName

#### **Return Value**

A dictionary containing the receiver's sub-entities. The keys in the dictionary are the sub-entity names, the corresponding values are instances of NSEntityDescription.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
setSubentities: (page 18)subentities (page 19)superentity (page 20)
```

#### **Declared In**

NSEntityDescription.h

### superentity

Returns the super-entity of the receiver.

```
- (NSEntityDescription *)superentity
```

#### **Return Value**

The receiver's super-entity. If the receiver has no super-entity, returns nil.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
setSubentities: (page 18)subentities (page 19)subentitiesByName (page 20)
```

#### **Declared In**

NSEntityDescription.h

#### userInfo

Returns the user info dictionary of the receiver.

```
- (NSDictionary *)userInfo
```

#### **Return Value**

The receiver's user info dictionary.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### See Also

```
- setUserInfo: (page 18)
```

#### Declared In

NSEntityDescription.h

#### versionHash

Returns the version hash for the receiver.

```
- (NSData *)versionHash
```

#### **Return Value**

The version hash for the receiver.

#### Discussion

The version hash is used to uniquely identify an entity based on the collection and configuration of properties for the entity. The version hash uses only values which affect the persistence of data and the user-defined versionHashModifier (page 21) value. (The values which affect persistence are: the name of the entity, the version hash of the superentity (if present), if the entity is abstract, and all of the version hashes for the properties.) This value is stored as part of the version information in the metadata for stores which use this entity, as well as a definition of an entity involved in an NSEntityMapping object.

#### **Availability**

Available in Mac OS X v10.5 and later.

#### See Also

- versionHashModifier (page 21)
- setVersionHashModifier: (page 19)

#### **Declared In**

NSEntityDescription.h

#### version Hash Modifier

Returns the version hash modifier for the receiver.

```
- (NSString *)versionHashModifier
```

#### Return Value

The version hash modifier for the receiver.

#### Discussion

This value is included in the version hash for the entity. See setVersionHashModifier: (page 19) for a full discussion.

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#### **Availability**

Available in Mac OS X v10.5 and later.

#### See Also

- versionHash (page 21)
- setVersionHashModifier: (page 19)

#### **Declared In**

NSEntityDescription.h

# **Document Revision History**

This table describes the changes to NSEntityDescription Class Reference.

Date	Notes
2010-04-06	Corrected repeated text.
2009-05-01	Corrected typographical errors.
2009-02-19	Updated for iOS 3.0.
2008-06-02	Updated for Mac OS X v10.6.
2008-02-08	Updated the discussion of the method insertNewObjectForEntityForName: inManagedObjectContext: for Mac OS X v10.5.
2007-07-23	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

#### **REVISION HISTORY**

**Document Revision History**