

NSObject

Inherits From:	NSObject is the root class
Conforms To:	NSCoding NSObject
Declared In:	foundation/NSObject.h foundation/NSRunLoop.h

Initializing the Class

+ (void)**initialize** Initializes the class before it's used (before it receives its first message).

Creating and Destroying Instances

+ (id) alloc	Returns a new, uninitialized instance of the receiving class.
+ (id) allocWithZone:(NSZone *)zone	Returns a new, uninitialized instance of the receiving class in <i>zone</i> .
+ (id) new	Allocates a new instance of the receiving class, sends it an init message, and returns the initialized object returned by init .
- (id) copy	Invokes copyWithZone: .
- (void) dealloc	Deallocates the memory occupied by the receiver.
- (id) init	Implemented by subclasses to initialize a new object (the receiver)

- (id)**mutableCopy** immediately after memory for it has been allocated.
Invokes **mutableCopyWithZone:**.

Identifying Classes

+ (Class)**class** Returns **self**. Since this is a class method, it returns the class object.
+ (Class)**superclass** Returns the class object for the receiver's superclass.

Testing Class Functionality

+ (BOOL)**instancesRespondToSelector:(SEL)aSelector**
Returns YES if instances of the class are capable of responding to *aSelector* messages, and NO if they're not.

Testing Protocol Conformance

+ (BOOL)**conformsToProtocol:(Protocol *)aProtocol**
Returns YES if the receiving class conforms to *aProtocol*, and NO if it doesn't.

Obtaining Method Information

+ (IMP)**instanceMethodForSelector:(SEL)aSelector**
Locates and returns the address of the implementation of the *aSelector* instance method.
- (IMP)**methodForSelector:(SEL)aSelector** Locates and returns the address of the receiver's implementation of the *aSelector* method, so that it can be called as a function.
- (NSMethodSignature *)**methodSignatureForSelector:(SEL)aSelector**

Returns an object that contains a description of the *aSelector* method, or **nil** if the *aSelector* method can't be found.

Describing Objects

+ (NSString *)**description**

Subclasses override this method to return a human-readable string representation of the contents of the receiver. NSObject's implementation simply prints the name of the receiver's class.

Posing

+ (void)**poseAsClass:(Class)aClass**

Causes the receiving class to ^apose as^o its superclass.

Error Handling

- (void)**doesNotRecognizeSelector:(SEL)aSelector**

Handles *aSelector* messages that the receiver doesn't recognize.

Sending Messages Determined at Run Time

+ (void)**cancelPreviousPerformRequestsWithTarget:(id)aTarget**

selector:(SEL)aSelector

object:(id)anObject

Cancels previous perform requests having the same target and argument (as determined by **isEqual:**), and the same selector. This method removes timers only in the current run loop, not all run loops.

- (void)**performSelector:(SEL)aSelector**

object:(id)anObject

afterDelay:(NSTimeInterval)delay

Sends an *aSelector* message to *anObject* after *delay*. **self** and *anObject* are retained until after the action is executed.

Forwarding Messages

- (void)**forwardInvocation:**(NSInvocation *)*anInvocation*

Implemented by subclasses to forward messages to other objects.

Archiving

- (id)**awakeAfterUsingCoder:**(NSCoder *)*aDecoder*

Implemented by subclasses to reinitialize the receiver. The NSObject implementation of this method simply returns **self**.

- (Class)**classForArchiver**

Identifies the class to be used during archiving. NSObject's implementation returns the object returned by **classForCoder:**.

- (Class)**classForCoder**

Identifies the class to be used during serialization. An NSObject returns its own class by default.

- (id)**replacementObjectForArchiver:**(NSArchiver *)*anArchiver*

Allows an object to substitute another object for itself during archiving. NSObject's implementation returns the object returned by **replacementObjectForCoder:**.

- (id)**replacementObjectForCoder:**(NSCoder *)*anEncoder*

Allows an object to substitute another object for itself during serialization. NSObject's implementation returns **self**.

+ (void)**setVersion:**(int)*version*

Sets the class version number to *version*.

+ (int)**version**

Returns the version of the class definition.

