# **NSScanner Class Reference**

Cocoa > Data Management



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# **NSScanner Class Reference**

Inherits from Conforms to	NSObject NSCopying NSObject (NSObject)
Framework Availability	/System/Library/Frameworks/Foundation.framework Available in Mac OS X v10.0 and later.
Companion guide	String Programming Guide for Cocoa
Declared in	NSDecimalNumber.h NSScanner.h
Related sample code	iSpend NumberInput_IMKit_Sample QTAudioExtractionPanel Quartz Composer QCTV Sproing

# **Overview**

The NSScanner class is an abstract superclass of a class cluster that declares the programmatic interface for an object that scans values from an NSString object.

An NSScanner object interprets and converts the characters of an NSString object into number and string values. You assign the scanner's string on creating it, and the scanner progresses through the characters of that string from beginning to end as you request items.

Because of the nature of class clusters, scanner objects aren't actual instances of the NSScanner class but one of its private subclasses. Although a scanner object's class is private, its interface is public, as declared by this abstract superclass, NSScanner. The primitive methods of NSScanner are string (page 21) and all of the methods listed under "Configuring a Scanner" (page 6) in the "Methods by Task" section. The objects you create using this class are referred to as scanner objects (and when no confusion will result, merely as scanners).

You can set an NSScanner object to ignore a set of characters as it scans the string using the setCharactersToBeSkipped: (page 19) method. The default set of characters to skip is the whitespace and newline character set.

To retrieve the unscanned remainder of the string, use [[scanner string]substringFromIndex:[scanner scanLocation]].

# **Adopted Protocols**

NSCopying - copyWithZone:

# Tasks

### **Creating an Scanner**

+ scannerWithString: (page 8)

Returns an NSScanner object that scans a given string.

+ localizedScannerWithString: (page 7)

Returns an NSScanner object that scans a given string according to the user's default locale.

- initWithString: (page 9)

Returns an NSScanner object initialized to scan a given string.

### **Getting a Scanner's String**

- string (page 21)

Returns the string with which the receiver was created or initialized.

### **Configuring a Scanner**

- setScanLocation: (page 20)

Sets the location at which the next scan operation will begin to a given index.

- scanLocation (page 16)

Returns the character position at which the receiver will begin its next scanning operation.

- setCaseSensitive: (page 19)

Sets whether the receiver is case sensitive when scanning characters.

- caseSensitive (page 8)

Returns a Boolean value that indicates whether the receiver distinguishes case in the characters it scans.

- setCharactersToBeSkipped: (page 19)

Sets the set of characters to ignore when scanning for a value representation.

- charactersToBeSkipped (page 9)

Returns a character set containing the characters the receiver ignores when looking for a scannable element.

- setLocale: (page 20)

Sets the receiver's locale to a given locale.

- locale (page 10)

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Returns the receiver's locale.

### **Scanning a String**

- scanCharactersFromSet:intoString: (page 11)

Scans the string as long as characters from a given character set are encountered, accumulating characters into a string that's returned by reference.

- scanUpToCharactersFromSet:intoString: (page 17)

Scans the string until a character from a given character set is encountered, accumulating characters into a string that's returned by reference.

- scanDecimal: (page 11)

Scans for an NSDecimal value, returning a found value by reference.

- scanDouble: (page 12)

Scans for a double value, returning a found value by reference.

- scanFloat: (page 12)

Scans for a float value, returning a found value by reference.

- scanHexDouble: (page 13)

Scans for a double value from a hexadecimal representation, returning a found value by reference.

- scanHexFloat: (page 14)

Scans for a double value from a hexadecimal representation, returning a found value by reference.

- scanHexInt: (page 14)

Scans for an unsigned value from a hexadecimal representation, returning a found value by reference.

- scanHexLongLong: (page 14)

Scans for a double value from a hexadecimal representation, returning a found value by reference.

- scanInteger: (page 15)

Scans for an NSInteger value from a decimal representation, returning a found value by reference

- scanInt: (page 15)

Scans for an int value from a decimal representation, returning a found value by reference.

- scanLongLong: (page 16)

Scans for a long long value from a decimal representation, returning a found value by reference.

- scanString: intoString: (page 17)

Scans a given string, returning an equivalent string object by reference if a match is found.

- scanUpToString: intoString: (page 18)

Scans the string until a given string is encountered, accumulating characters into a string that's returned by reference.

- isAtEnd (page 10)

Returns a Boolean value that indicates whether the receiver has exhausted all significant characters

# **Class Methods**

### localizedScannerWithString:

Returns an NSScanner object that scans a given string according to the user's default locale.

+ (id)localizedScannerWithString:(NSString \*)aString

### Parameters

aString

The string to scan.

### **Return Value**

An NSScanner object that scans aString according to the user's default locale.

### Discussion

Sets the string to scan by invoking initWithString: (page 9) with *aString*. The locale is set with setLocale: (page 20).

### Availability

Available in Mac OS X v10.0 and later.

### **Declared** In

NSScanner.h

### scannerWithString:

Returns an NSScanner object that scans a given string.

+ (id)scannerWithString:(NSString \*)aString

#### Parameters

aString The string to scan.

Return Value An NSScanner object that scans aString.

#### Discussion

Sets the string to scan by invoking initWithString: (page 9) with aString.

#### Availability

Available in Mac OS X v10.0 and later.

### Related Sample Code iSpend NumberInput\_IMKit\_Sample QTAudioExtractionPanel Quartz Composer QCTV Sproing

# Declared In

NSScanner.h

# **Instance Methods**

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### caseSensitive

Returns a Boolean value that indicates whether the receiver distinguishes case in the characters it scans.

- (BOOL)caseSensitive

### **Return Value**

YES if the receiver distinguishes case in the characters it scans, otherwise NO.

#### Discussion

Scanners are not case sensitive by default. Note that case sensitivity doesn't apply to the characters to be skipped.

#### Availability

Available in Mac OS X v10.0 and later.

### See Also

- setCaseSensitive: (page 19)
- setCharactersToBeSkipped: (page 19)

### Declared In

NSScanner.h

### charactersToBeSkipped

Returns a character set containing the characters the receiver ignores when looking for a scannable element.

- (NSCharacterSet \*)charactersToBeSkipped

#### **Return Value**

A character set containing the characters the receiver ignores when looking for a scannable element.

#### Discussion

For example, if a scanner ignores spaces and you send it a scanInt: (page 15) message, it skips spaces until it finds a decimal digit or other character. While an element is being scanned, however, no characters are skipped. If you scan for something made of characters in the set to be skipped (for example, using scanInt: (page 15) when the set of characters to be skipped is the decimal digits), the result is undefined.

The default set to skip is the whitespace and newline character set.

### Availability

Available in Mac OS X v10.0 and later.

### See Also

setCharactersToBeSkipped: (page 19)
 whitespaceAndNewlineCharacterSet (NSCharacterSet)

### Declared In

NSScanner.h

### initWithString:

Returns an NSScanner object initialized to scan a given string.

```
- (id) initWithString: (NSString *) aString
```

### Parameters

aString

The string to scan.

### **Return Value**

An NSScanner object initialized to scan *aString* from the beginning. The returned object might be different than the original receiver.

### Availability

Available in Mac OS X v10.0 and later.

### See Also

+ localizedScannerWithString: (page 7)

```
+ scannerWithString: (page 8)
```

### **Declared** In

NSScanner.h

### isAtEnd

Returns a Boolean value that indicates whether the receiver has exhausted all significant characters

- (BOOL)isAtEnd

### **Return Value**

YES if the receiver has exhausted all significant characters in its string, otherwise NO.

If only characters from the set to be skipped remain, returns YES.

#### **Availability** Available in Mac OS X v10.0 and later.

See Also
- charactersToBeSkipped (page 9)

#### **Related Sample Code** QTAudioExtractionPanel

Declared In

NSScanner.h

### locale

Returns the receiver's locale.

- (id)locale

### **Return Value** The receiver's locale, or nil if it has none.

### Discussion

A scanner's locale affects the way it interprets numeric values from the string. In particular, a scanner uses the locale's decimal separator to distinguish the integer and fractional parts of floating-point representations. A scanner with no locale set uses non-localized values.

### Availability

Available in Mac OS X v10.0 and later.

See Also - setLocale: (page 20)

**Declared In** 

NSScanner.h

### scanCharactersFromSet:intoString:

Scans the string as long as characters from a given character set are encountered, accumulating characters into a string that's returned by reference.

```
- (BOOL)scanCharactersFromSet:(NSCharacterSet *)scanSet intoString:(NSString **)stringValue
```

### Parameters

scanSet

The set of characters to scan.

stringValue

Upon return, contains the characters scanned.

# Return Value

YES if the receiver scanned any characters, otherwise NO.

### Discussion

Invoke this method with NULL as *stringValue* to simply scan past a given set of characters.

### Availability

Available in Mac OS X v10.0 and later.

#### See Also

- scanUpToCharactersFromSet:intoString: (page 17)

### Declared In

NSScanner.h

### scanDecimal:

Scans for an NSDecimal value, returning a found value by reference.

- (BOOL)scanDecimal:(NSDecimal \*)decimalValue

### Parameters

decimalValue

Upon return, contains the scanned value. See the NSDecimalNumber class specification for more information about NSDecimal values.

### **Return Value**

YES if the receiver finds a valid NSDecimal representation, otherwise NO.

### Discussion

Invoke this method with NULL as *decimalValue* to simply scan past an NSDecimal representation.

### Availability

Available in Mac OS X v10.0 and later.

### **Related Sample Code**

NumberInput\_IMKit\_Sample

Declared In NSDecimalNumber.h

### scanDouble:

Scans for a double value, returning a found value by reference.

- (BOOL)scanDouble:(double \*)doubleValue

### Parameters

doubleValue

Upon return, contains the scanned value. Contains HUGE\_VAL or -HUGE\_VAL on overflow, or 0.0 on underflow.

### **Return Value**

YES if the receiver finds a valid floating-point representation, otherwise NO.

### Discussion

Skips past excess digits in the case of overflow, so the scanner's position is past the entire floating-point representation.

Invoke this method with NULL as *doubleValue* to simply scan past a double value representation. Floating-point representations are assumed to be IEEE compliant.

### Availability

Available in Mac OS X v10.0 and later.

See Also doubleValue (NSString)

### Declared In

NSScanner.h

### scanFloat:

Scans for a float value, returning a found value by reference.

```
- (BOOL)scanFloat:(float *)floatValue
```

### Parameters

floatValue

Upon return, contains the scanned value. Contains HUGE\_VAL or -HUGE\_VAL on overflow, or 0.0 on underflow.

### **Return Value**

YES if the receiver finds a valid floating-point representation, otherwise NO.

#### Discussion

Skips past excess digits in the case of overflow, so the scanner's position is past the entire floating-point representation.

Invoke this method with NULL as *floatValue* to simply scan past a float value representation. Floating-point representations are assumed to be IEEE compliant.

#### Availability

Available in Mac OS X v10.0 and later.

See Also floatValue (NSString)

**Related Sample Code** iSpend Quartz Composer QCTV

Declared In NSScanner.h

### scanHexDouble:

Scans for a double value from a hexadecimal representation, returning a found value by reference.

```
- (BOOL)scanHexDouble:(double *)result
```

#### Parameters

result

Upon return, contains the scanned value.

### **Return Value**

YES if the receiver finds a valid double-point representation, otherwise NO.

#### Discussion

This corresponds to %a or %A formatting. The hexadecimal double representation must be preceded by 0x or 0X.

Invoke this method with NULL as *result* to simply scan past a hexadecimal double representation.

### Availability

Available in Mac OS X v10.5 and later.

### **Declared In**

NSScanner.h

### scanHexFloat:

Scans for a double value from a hexadecimal representation, returning a found value by reference.

```
- (BOOL)scanHexFloat:(float *)result
```

### Parameters

result

Upon return, contains the scanned value.

Return Value

YES if the receiver finds a valid float-point representation, otherwise NO.

#### Discussion

This corresponds to %a or %A formatting. The hexadecimal float representation must be preceded by  $0 \times$  or  $0 \times$ .

Invoke this method with NULL as *result* to simply scan past a hexadecimal float representation.

#### Availability

Available in Mac OS X v10.5 and later.

Declared In

NSScanner.h

### scanHexInt:

Scans for an unsigned value from a hexadecimal representation, returning a found value by reference.

- (BOOL)scanHexInt:(unsigned \*)intValue

### Parameters

intValue

Upon return, contains the scanned value. Contains INT\_MAX or INT\_MIN on overflow.

### Return Value

Returns YES if the receiver finds a valid hexadecimal integer representation, otherwise NO.

#### Discussion

The hexadecimal integer representation may optionally be preceded by  $0 \times$  or  $0 \times$ . Skips past excess digits in the case of overflow, so the receiver's position is past the entire hexadecimal representation.

Invoke this method with NULL as *intValue* to simply scan past a hexadecimal integer representation.

#### Availability

Available in Mac OS X v10.0 and later.

Declared In NSScanner.h

### scanHexLongLong:

Scans for a double value from a hexadecimal representation, returning a found value by reference.

- (BOOL)scanHexLongLong:(unsigned long long \*)result

### Parameters

result

Upon return, contains the scanned value.

### **Return Value**

YES if the receiver finds a valid double-point representation, otherwise NO.

#### Discussion

Invoke this method with NULL as result to simply scan past a hexadecimal long long representation.

### Availability

Available in Mac OS X v10.5 and later.

### **Declared In**

NSScanner.h

### scanInt:

Scans for an int value from a decimal representation, returning a found value by reference.

- (BOOL)scanInt:(int \*)intValue

### Parameters

intValue

Upon return, contains the scanned value. Contains INT\_MAX or INT\_MIN on overflow.

### **Return Value**

YES if the receiver finds a valid decimal integer representation, otherwise NO.

#### Discussion

Skips past excess digits in the case of overflow, so the receiver's position is past the entire decimal representation.

Invoke this method with NULL as *intValue* to simply scan past a decimal integer representation.

### Availability

Available in Mac OS X v10.0 and later.

## See Also

```
intValue (NSString)
- scanInteger: (page 15)
```

### **Declared In**

NSScanner.h

### scanInteger:

Scans for an NSInteger value from a decimal representation, returning a found value by reference

```
- (BOOL)scanInteger:(NSInteger *)value
```

### Parameters

value

Upon return, contains the scanned value.

### **Return Value**

YES if the receiver finds a valid integer representation, otherwise NO.

#### Discussion

Skips past excess digits in the case of overflow, so the receiver's position is past the entire integer representation.

Invoke this method with NULL as value to simply scan past a decimal integer representation.

#### Availability

Available in Mac OS X v10.5 and later.

### See Also

integerValue (NSString)

- scanInt: (page 15)

### **Declared In**

NSScanner.h

### scanLocation

Returns the character position at which the receiver will begin its next scanning operation.

```
- (NSUInteger)scanLocation
```

### **Return Value**

The character position at which the receiver will begin its next scanning operation.

#### Availability

Available in Mac OS X v10.0 and later.

#### See Also

- setScanLocation: (page 20)

### Declared In

NSScanner.h

### scanLongLong:

Scans for a long long value from a decimal representation, returning a found value by reference.

- (BOOL)scanLongLong:(long long \*)longLongValue

### Parameters

longLongValue

Upon return, contains the scanned value. Contains LLONG\_MAX or LLONG\_MIN on overflow.

### **Return Value**

YES if the receiver finds a valid decimal integer representation, otherwise NO.

### Discussion

All overflow digits are skipped. Skips past excess digits in the case of overflow, so the receiver's position is past the entire decimal representation.

Invoke this method with NULL as *longLongValue* to simply scan past a long decimal integer representation.

### Availability

Available in Mac OS X v10.0 and later.

### **Declared In**

NSScanner.h

### scanString:intoString:

Scans a given string, returning an equivalent string object by reference if a match is found.

- (BOOL)scanString:(NSString \*)string intoString:(NSString \*\*)stringValue

#### Parameters

string

The string for which to scan at the current scan location.

stringValue

Upon return, if the receiver contains a string equivalent to *string* at the current scan location, contains a string equivalent to *string*.

### **Return Value**

YES if *stringValue* matches the characters at the scan location, otherwise NO.

#### Discussion

If *string* is present at the current scan location, then the current scan location is advanced to after the string; otherwise the scan location does not change.

Invoke this method with NULL as *stringValue* to simply scan past a given string.

### Availability

Available in Mac OS X v10.0 and later.

See Also

- scanUpToString: intoString: (page 18)

Declared In

NSScanner.h

### scanUpToCharactersFromSet:intoString:

Scans the string until a character from a given character set is encountered, accumulating characters into a string that's returned by reference.

- (BOOL)scanUpToCharactersFromSet:(NSCharacterSet \*)stopSet intoString:(NSString \*\*)stringValue

### Parameters

stopSet

The set of characters up to which to scan.

stringValue

Upon return, contains the characters scanned.

### **Return Value**

YES if the receiver scanned any characters, otherwise NO.

If the only scanned characters are in the charactersToBeSkipped (page 9) character set (which is the whitespace and newline character set by default), then returns NO.

### Discussion

Invoke this method with NULL as *stringValue* to simply scan up to a given set of characters.

If no characters in *stopSet* are present in the scanner's source string, the remainder of the source string is put into *stringValue*, the receiver's scanLocation is advanced to the end of the source string, and the method returns YES.

#### Availability

Available in Mac OS X v10.0 and later.

### See Also

```
- scanCharactersFromSet:intoString: (page 11)
```

### Declared In

NSScanner.h

### scanUpToString:intoString:

Scans the string until a given string is encountered, accumulating characters into a string that's returned by reference.

- (BOOL)scanUpToString:(NSString \*)stopString intoString:(NSString \*\*)stringValue

### Parameters

stopString

The string to scan up to.

stringValue

Upon return, contains any characters that were scanned.

### **Return Value**

YES if the receiver scans any characters, otherwise NO.

If the only scanned characters are in the charactersToBeSkipped (page 9) character set (which by default is the whitespace and newline character set), then this method returns N0.

### Discussion

If stopString is present in the receiver, then on return the scan location is set to the beginning of that string.

If stopString is the first string in the receiver, then the method returns N0 and *stringValue* is not changed.

If the search string (stopString) isn't present in the scanner's source string, the remainder of the source string is put into *stringValue*, the receiver's scanLocation is advanced to the end of the source string, and the method returns YES.

Invoke this method with NULL as *stringValue* to simply scan up to a given string.

### Availability

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Available in Mac OS X v10.0 and later.

### See Also

```
- scanString:intoString: (page 17)
```

Declared In NSScanner.h

### setCaseSensitive:

Sets whether the receiver is case sensitive when scanning characters.

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

### Parameters

flag

If YES, the receiver will distinguish case when scanning characters, otherwise it will ignore case distinctions.

#### Discussion

Scanners are not case sensitive by default. Note that case sensitivity doesn't apply to the characters to be skipped.

#### Availability

Available in Mac OS X v10.0 and later.

### See Also

- caseSensitive (page 8)
- setCharactersToBeSkipped: (page 19)

### **Declared In**

NSScanner.h

### setCharactersToBeSkipped:

Sets the set of characters to ignore when scanning for a value representation.

- (void)setCharactersToBeSkipped:(NSCharacterSet \*)skipSet

#### **Parameters**

skipSet

The characters to ignore when scanning for a value representation.

### Discussion

For example, if a scanner ignores spaces and you send it a scanInt: (page 15) message, it skips spaces until it finds a decimal digit or other character. While an element is being scanned, however, no characters are skipped. If you scan for something made of characters in the set to be skipped (for example, using scanInt: (page 15) when the set of characters to be skipped is the decimal digits), the result is undefined.

The characters to be skipped are treated literally as single values. A scanner doesn't apply its case sensitivity setting to these characters and doesn't attempt to match composed character sequences with anything in the set of characters to be skipped (though it does match pre-composed characters individually). If you want to skip all vowels while scanning a string, for example, you can set the characters to be skipped to those in the string "AEIOUaeiou" (plus any accented variants with pre-composed characters).

The default set of characters to skip is the whitespace and newline character set.

### Availability

Available in Mac OS X v10.0 and later.

#### See Also

charactersToBeSkipped (page 9)
 whitespaceAndNewlineCharacterSet (NSCharacterSet)

### **Related Sample Code**

ImageMapExample QTAudioExtractionPanel Quartz Composer QCTV

Declared In

NSScanner.h

### setLocale:

Sets the receiver's locale to a given locale.

- (void)setLocale:(id)aLocale

### Parameters

aLocale

The locale for the receiver.

#### Discussion

A scanner's locale affects the way it interprets values from the string. In particular, a scanner uses the locale's decimal separator to distinguish the integer and fractional parts of floating-point representations. A new scanner's locale is by default nil, which causes it to use non-localized values.

### Availability

Available in Mac OS X v10.0 and later.

See Also

- locale (page 10)

### **Declared In**

NSScanner.h

### setScanLocation:

Sets the location at which the next scan operation will begin to a given index.

- (void)setScanLocation:(NSUInteger)index

### Parameters

index

The location at which the next scan operation will begin. Raises an NSRangeException if *index* is beyond the end of the string being scanned.

### Discussion

This method is useful for backing up to rescan after an error.

Rather than setting the scan location directly to skip known sequences of characters, use scanString:intoString: (page 17) or scanCharactersFromSet:intoString: (page 11), which allow you to verify that the expected substring (or set of characters) is in fact present.

### Availability

Available in Mac OS X v10.0 and later.

See Also - scanLocation (page 16)

**Declared In** NSScanner.h

# string

Returns the string with which the receiver was created or initialized.

- (NSString \*)string

# Return Value

The string with which the receiver was created or initialized.

**Availability** Available in Mac OS X v10.0 and later.

See Also - locale (page 10)

Declared In NSScanner.h NSScanner Class Reference

# **Document Revision History**

This table describes the changes to NSScanner Class Reference.

Date	Notes
2008-10-15	Documented hexadecimal scanning methods introduced in Mac OS X v10.5
2007-02-22	Included API introduced in Mac OS X v10.5.
	Added a note that [[scanner string]substringFromIndex:[scanner scanLocation]] is the best way to retrieve the unscanned remainder of the string.
2006-06-28	Clarified the behavior of scanUpToString:intoString:, scanUpToCharactersFromSet:intoString:, and scanString:intoString:.
2006-05-23	Corrected typographical errors.
	First publication of this content as a separate document.

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