
NSHTTPCookie Class Reference

[Cocoa](#) > [Networking](#)



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Apple Inc.
1 Infinite Loop
Cupertino, CA 95014
408-996-1010

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NSHTTPCookie Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/Foundation.framework
Availability	Available in Mac OS X v10.2 with Safari 1.0 installed. Available in Mac OS X v10.2.7 and later.
Companion guide	URL Loading System
Declared in	NSHTTPCookie.h

Overview

An NSHTTPCookie object represents an HTTP cookie. It's an immutable object initialized from a dictionary containing the cookie attributes.

Two versions of cookies are supported:

- Version 0: This version refers to “traditional” or “old-style” cookies, the original cookie format defined by Netscape. The majority of cookies encountered are in this format.
- Version 1: This version refers to cookies as defined in RFC 2965, HTTP State Management Mechanism.

Adopted Protocols

NSCopying

- copyWithZone:

Tasks

Create Cookie Instances

- + [cookiesWithResponseHeaderFields:forURL:](#) (page 7)
Returns an array of NSHTTPCookie objects corresponding to the provided response header fields for the provided URL.
- + [cookieWithProperties:](#) (page 7)
Creates and initializes an NSHTTPCookie object using the provided properties.
- [initWithProperties:](#) (page 10)
Returns an initialized NSHTTPCookie object using the provided properties.

Convert Cookies to Request Headers

- + [requestHeaderFieldsWithCookies:](#) (page 8)
Returns a dictionary of header fields corresponding to a provided array of cookies.

Getting Cookie Properties

- [comment](#) (page 8)
Returns the receiver's comment string.
- [commentURL](#) (page 9)
Returns the receiver's comment URL.
- [domain](#) (page 9)
Returns the domain of the receiver's cookie.
- [expiresDate](#) (page 9)
Returns the receiver's expiration date.
- [isSecure](#) (page 10)
Returns whether his cookie should only be sent over secure channels.
- [isSessionOnly](#) (page 11)
Returns whether the receiver should be discarded at the end of the session (regardless of expiration date).
- [name](#) (page 11)
Returns the receiver's name.
- [path](#) (page 11)
Returns the receiver's path.
- [portList](#) (page 12)
Returns the receiver's port list.
- [properties](#) (page 12)
Returns the receiver's cookie properties.
- [value](#) (page 12)
Returns the receiver's value.

- [version](#) (page 13)
Returns the receiver's version.

Class Methods

cookiesWithResponseHeaderFields:forURL:

Returns an array of NSHTTPCookie objects corresponding to the provided response header fields for the provided URL.

```
+ (NSArray *)cookiesWithResponseHeaderFields:(NSDictionary *)headerFields
  forURL:(NSURL *)theURL
```

Parameters

headerFields

The header fields used to create the NSHTTPCookie objects.

theURL

The URL associated with the created cookies.

Return Value

The array of newly created cookies.

Discussion

This method will ignore irrelevant header fields in *headerFields*, allowing dictionaries to contain additional data.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

cookieWithProperties:

Creates and initializes an NSHTTPCookie object using the provided properties.

```
+ (id)cookieWithProperties:(NSDictionary *)properties
```

Parameters

properties

The properties for the new cookie object, expressed as key value pairs.

Return Value

The newly created cookie object. Returns `nil` if the provided properties are invalid.

Discussion

See “[Constants](#)” (page 13) for more information on the available header field constants and the constraints imposed on the values in the dictionary.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

See Also

- [initWithProperties:](#) (page 10)

Declared In

NSHTTPCookie.h

requestHeaderFieldsWithCookies:

Returns a dictionary of header fields corresponding to a provided array of cookies.

```
+ (NSDictionary *)requestHeaderFieldsWithCookies:(NSArray *)cookies
```

Parameters

cookies

The cookies from which the header fields are created.

Return Value

The dictionary of header fields created from the provided cookies. This dictionary can be used to add cookies to a request.

Discussion

See “[Constants](#)” (page 13) for details on the header field keys and values in the returned dictionary.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

Instance Methods

comment

Returns the receiver's comment string.

```
- (NSString *)comment
```

Return Value

The receiver's comment string or `nil` if the cookie has no comment. This string is suitable for presentation to the user, explaining the contents and purpose of this cookie.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

commentURL

Returns the receiver's comment URL.

- (NSURL *)commentURL

Return Value

The receiver's comment URL or `nil` if the cookie has none. This value specifies a URL which is suitable for presentation to the user as a link for further information about this cookie.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

domain

Returns the domain of the receiver's cookie.

- (NSString *)domain

Return Value

The domain of the receiver's cookie.

Discussion

If the domain does not start with a dot, then the cookie will only be sent to the exact host specified by the domain. If the domain does start with a dot, then the cookie will be sent to other hosts in that domain as well, subject to certain restrictions. See RFC 2965 for more detail.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

expiresDate

Returns the receiver's expiration date.

- (NSDate *)expiresDate

Return Value

The receiver's expiration date, or `nil` if there is no specific expiration date such as in the case of "session-only" cookies. The expiration date is the date when the cookie should be deleted.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

initWithProperties:

Returns an initialized `NSHTTPCookie` object using the provided properties.

```
- (id)initWithProperties:(NSDictionary *)properties
```

Parameters

properties

The properties for the new cookie object, expressed as key value pairs.

Return Value

The initialized cookie object. Returns `nil` if the provided properties are invalid.

Discussion

See “[Constants](#)” (page 13) for more information on the available header field constants and the constraints imposed on the values in the dictionary.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

See Also

+ [cookieWithProperties:](#) (page 7)

Declared In

NSHTTPCookie.h

isSecure

Returns whether his cookie should only be sent over secure channels.

```
- (BOOL)isSecure
```

Return Value

YES if this cookie should only be sent over secure channels, otherwise NO.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

isSessionOnly

Returns whether the receiver should be discarded at the end of the session (regardless of expiration date).

- (BOOL)isSessionOnly

Return Value

YES if the receiver should be discarded at the end of the session (regardless of expiration date), otherwise NO.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

name

Returns the receiver's name.

- (NSString *)name

Return Value

The receiver's name.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

path

Returns the receiver's path.

- (NSString *)path

Return Value

The receiver's path.

Discussion

The cookie will be sent with requests for this path in the cookie's domain, and all paths that have this prefix. A path of "/" means the cookie will be sent for all URLs in the domain.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

portList

Returns the receiver's port list.

- (NSArray *)portList

Return Value

The list of ports for the cookie, returned as an array of `NSNumber` objects containing integers. If the cookie has no port list this method returns `nil` and the cookie will be sent to any port. Otherwise, the cookie is only sent to ports specified in the port list.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

properties

Returns the receiver's cookie properties.

- (NSDictionary *)properties

Return Value

A dictionary representation of the receiver's cookie properties.

Discussion

This dictionary can be used with [initWithProperties:](#) (page 10) or [cookieWithProperties:](#) (page 7) to create an equivalent `NSHTTPCookie` object.

See [initWithProperties:](#) (page 10) for more information on the constraints imposed on the *properties* dictionary.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

value

Returns the receiver's value.

- (NSString *)value

Return Value

The receiver's value.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

version

Returns the receiver's version.

- (NSUInteger)version

Return Value

The receiver's version. Version 0 maps to "old-style" Netscape cookies. Version 1 maps to RFC 2965 cookies.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSHTTPCookie.h

Constants

HTTP Cookie Property Keys

These constants define the supported keys in a dictionary containing cookie attributes.

```
extern NSString *NSHTTPCookieComment;
extern NSString *NSHTTPCookieCommentURL;
extern NSString *NSHTTPCookieDiscard;
extern NSString *NSHTTPCookieDomain;
extern NSString *NSHTTPCookieExpires;
extern NSString *NSHTTPCookieMaximumAge;
extern NSString *NSHTTPCookieName;
extern NSString *NSHTTPCookieOriginURL;
extern NSString *NSHTTPCookiePath;
extern NSString *NSHTTPCookiePort;
extern NSString *NSHTTPCookieSecure;
extern NSString *NSHTTPCookieValue;
extern NSString *NSHTTPCookieVersion;
```

Constants

NSHTTPCookieComment

An NSString object containing the comment for the cookie.

Only valid for Version 1 cookies and later. This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieCommentURL

An NSURL object or NSString object containing the comment URL for the cookie.

Only valid for Version 1 cookies or later. This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieDiscard

An NSString object stating whether the cookie should be discarded at the end of the session.

String value must be either "TRUE" or "FALSE". This header field is optional. Default is "FALSE", unless this is cookie is version 1 or greater and a value for NSHTTPCookieMaximumAge is not specified, in which case it is assumed "TRUE".

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieDomain

An NSString object containing the domain for the cookie.

A value must be specified for either NSHTTPCookieDomain or NSHTTPCookieOriginURL. If this header field is missing the domain is inferred from the value for NSHTTPCookieOriginURL.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieExpires

An NSDate object or NSString object specifying the expiration date for the cookie.

This header field is only used for Version 0 cookies. This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieMaximumAge

An NSString object containing an integer value stating how long in seconds the cookie should be kept, at most.

Only valid for Version 1 cookies and later. Default is "0". This field is optional.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieName

An NSString object containing the name of the cookie. This field is required.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookieOriginURL

An NSURL or NSString object containing the URL that set this cookie.

A value must be specified for either NSHTTPCookieDomain or NSHTTPCookieOriginURL.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookie.h.

NSHTTPCookiePath

An `NSString` object containing the path for the cookie.

Inferred from the value for `NSHTTPCookieOriginURL` if not provided. Default is `"/`. This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in `NSHTTPCookie.h`.

NSHTTPCookiePort

An `NSString` object containing comma-separated integer values specifying the ports for the cookie.

Only valid for Version 1 cookies or later. The default value is an empty string (`""`). This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in `NSHTTPCookie.h`.

NSHTTPCookieSecure

An `NSString` object stating whether the cookie should be transmitted only over secure channels.

String value must be either `"TRUE"` or `"FALSE"`. Default is `"FALSE"`. This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in `NSHTTPCookie.h`.

NSHTTPCookieValue

An `NSString` object containing the value of the cookie.

This header field is required.

Available in Mac OS X v10.2 and later.

Declared in `NSHTTPCookie.h`.

NSHTTPCookieVersion

An `NSString` object that specifies the version of the cookie.

Must be either `"0"` or `"1"`. The default is `"0"`. This header field is optional.

Available in Mac OS X v10.2 and later.

Declared in `NSHTTPCookie.h`.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

`NSHTTPCookie.h`

Document Revision History

This table describes the changes to *NSHTTPCookie Class Reference*.

Date	Notes
2008-11-13	Added isHTTPOnly method.
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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