
NSHTTPCookieStorage Class Reference

Networking, Internet, & Web: Protocol Streams



2006-05-23



Apple Inc.
© 2006 Apple Computer, Inc.
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

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

Apple, the Apple logo, Mac, Mac OS, and Safari are trademarks of Apple Inc., registered in the United States and other countries.

iPhone is a trademark of Apple Inc.

Simultaneously published in the United States and Canada.

Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.

IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR

CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Contents

NSHTTPCookieStorage Class Reference 5

Overview	5
Tasks	5
Getting the Shared Cookie Storage Object	5
Getting and Setting the Cookie Accept Policy	5
Adding and Removing Cookies	6
Class Methods	6
sharedHTTPCookieStorage	6
Instance Methods	6
cookieAcceptPolicy	6
cookies	7
cookiesForURL:	7
deleteCookie:	8
setCookie:	8
setCookieAcceptPolicy:	8
setCookies:forURL:mainDocumentURL:	9
Constants	9
NSHTTPCookieAcceptPolicy	9
Notifications	10
NSHTTPCookieManagerCookiesChangedNotification	10
NSHTTPCookieManagerAcceptPolicyChangedNotification	10

Document Revision History 13

Index 15

NSHTTPCookieStorage 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	NSHTTPCookieStorage.h

Overview

`NSHTTPCookieStorage` implements a singleton object (shared instance) that manages the shared cookie storage. These cookies are shared among all applications and are kept in sync cross-process.

Note: Changes made to the cookie accept policy will affect all currently running applications using the cookie storage.

Tasks

Getting the Shared Cookie Storage Object

- + [sharedHTTPCookieStorage](#) (page 6)
Returns the shared cookie storage instance.

Getting and Setting the Cookie Accept Policy

- [cookieAcceptPolicy](#) (page 6)
Returns the receiver's cookie accept policy.
- [setCookieAcceptPolicy:](#) (page 8)
Sets the cookie accept policy of the receiver

Adding and Removing Cookies

- [cookies](#) (page 7)
Returns the receiver's cookies.
- [cookiesForURL:](#) (page 7)
Returns all the receiver's cookies that will be sent to a specified URL.
- [deleteCookie:](#) (page 8)
Deletes the specified cookie from the receiver.
- [setCookie:](#) (page 8)
Stores a specified cookie in the receiver if the receiver's cookie accept policy permits.
- [setCookies:forURL:mainDocumentURL:](#) (page 9)
Adds an array of cookies to the receiver if the receiver's cookie acceptance policy permits.

Class Methods

sharedHTTPCookieStorage

Returns the shared cookie storage instance.

```
+ (NSHTTPCookieStorage *)sharedHTTPCookieStorage
```

Return Value

The shared cookie storage instance.

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

NSHTTPCookieStorage.h

Instance Methods

cookieAcceptPolicy

Returns the receiver's cookie accept policy.

```
- (NSHTTPCookieAcceptPolicy)cookieAcceptPolicy
```

Return Value

The receiver's cookie accept policy. The default cookie accept policy is `NSHTTPCookieAcceptPolicyAlways`.

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

- [setCookieAcceptPolicy:](#) (page 8)

Declared In

NSHTTPCookieStorage.h

cookies

Returns the receiver's cookies.

- (NSArray *)cookies

Return Value

An array containing all of the receiver's cookies.

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

- [cookiesForURL:](#) (page 7)

Declared In

NSHTTPCookieStorage.h

cookiesForURL:

Returns all the receiver's cookies that will be sent to a specified URL.

- (NSArray *)cookiesForURL:(NSURL *)*theURL*

Parameters

theURL

The URL to filter on.

Return Value

An array of cookies whose URL matches the provided URL.

Discussion

An application can use NSHTTPCookie's `requestHeaderFieldsWithCookies:` method to turn this array into a set of header fields to add to an `NSMutableURLRequest` object.

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

- [cookies](#) (page 7)

Declared In

NSHTTPCookieStorage.h

deleteCookie:

Deletes the specified cookie from the receiver.

```
- (void)deleteCookie:(NSHTTPCookie *)aCookie
```

Parameters

aCookie

The cookie to delete.

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

NSHTTPCookieStorage.h

setCookie:

Stores a specified cookie in the receiver if the receiver's cookie accept policy permits.

```
- (void)setCookie:(NSHTTPCookie *)aCookie
```

Parameters

aCookie

The cookie to store.

Discussion

The cookie will replace an existing cookie with the same name, domain and path, if one exists in the cookie storage. This method will accept the cookie only if the receiver's cookie accept policy is

NSHTTPCookieAcceptPolicyAlways or NSHTTPCookieAcceptPolicyOnlyFromMainDocumentDomain.

The cookie will be ignored if the receiver's cookie accept policy is NSHTTPCookieAcceptPolicyNever.

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

NSHTTPCookieStorage.h

setCookieAcceptPolicy:

Sets the cookie accept policy of the receiver

```
- (void)setCookieAcceptPolicy:(NSHTTPCookieAcceptPolicy)aPolicy
```

Parameters

aPolicy

The new cookie accept policy.

Discussion

The default cookie accept policy is NSHTTPCookieAcceptPolicyAlways. Changing the cookie policy will affect all currently running applications using the cookie storage.

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

- [cookieAcceptPolicy](#) (page 6)

Declared In

NSHTTPCookieStorage.h

setCookies:forURL:mainDocumentURL:

Adds an array of cookies to the receiver if the receiver's cookie acceptance policy permits.

```
- (void)setCookies:(NSArray *)cookies forURL:(NSURL *)theURL mainDocumentURL:(NSURL *)mainDocumentURL
```

Parameters

cookies

The cookies to add.

theURL

The URL associated with the added cookies.

mainDocumentURL

The URL of the main HTML document for the top-level frame, if known. Can be `nil`. This URL is used to determine if the cookie should be accepted if the cookie accept policy is `NSHTTPCookieAcceptPolicyOnlyFromMainDocumentDomain`.

Discussion

The cookies will replace existing cookies with the same name, domain, and path, if one exists in the cookie storage. The cookie will be ignored if the receiver's cookie accept policy is `NSHTTPCookieAcceptPolicyNever`.

To store cookies from a set of response headers, an application can use `cookiesWithResponseHeaderFields:forURL:` passing a header field dictionary and then use this method to store the resulting cookies in accordance with the receiver's cookie acceptance policy.

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

NSHTTPCookieStorage.h

Constants

NSHTTPCookieAcceptPolicy

`NSHTTPCookieAcceptPolicy` specifies the cookie acceptance policies implemented by the `NSHTTPCookieStorage` class.

```
typedef enum {
    NSHTTPCookieAcceptPolicyAlways,
    NSHTTPCookieAcceptPolicyNever,
    NSHTTPCookieAcceptPolicyOnlyFromMainDocumentDomain
} NSHTTPCookieAcceptPolicy;
```

Constants

NSHTTPCookieAcceptPolicyAlways

Accept all cookies. This is the default cookie accept policy.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookieStorage.h.

NSHTTPCookieAcceptPolicyNever

Reject all cookies.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookieStorage.h.

NSHTTPCookieAcceptPolicyOnlyFromMainDocumentDomain

Accept cookies only from the main document domain.

Available in Mac OS X v10.2 and later.

Declared in NSHTTPCookieStorage.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

NSHTTPCookieStorage.h

Notifications

NSHTTPCookieManagerCookiesChangedNotification

This notification is posted when the cookies stored in the NSHTTPCookieStorage instance have changed. Since cookies are shared among applications, this notification can be sent in response to another application's actions.

The notification object is the NSHTTPCookieStorage instance. This notification does not contain a userInfo 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

NSHTTPCookieStorage.h

NSHTTPCookieManagerAcceptPolicyChangedNotification

This notification is posted when the acceptance policy of the NSHTTPCookieStorage instance has changed. Since cookies are shared among applications, this notification can be sent in response to another application's actions.

The notification object is the `NSHTTPCookieStorage` instance. This notification does not contain a `userInfo` 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

`NSHTTPCookieStorage.h`

Document Revision History

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

Date	Notes
2006-05-23	Expanded description of <code>setCookies:forURL:mainDocumentURL:</code> .
	Expanded description of <code>setCookies:forURL:mainDocumentURL:</code> .
	First publication of this content as a separate document.

REVISION HISTORY

Document Revision History

Index

C

cookieAcceptPolicy **instance method** [6](#)
cookies **instance method** [7](#)
cookiesForURL: **instance method** [7](#)

D

deleteCookie: **instance method** [8](#)

N

NSHTTPCookieAcceptPolicy **data type** [9](#)
NSHTTPCookieAcceptPolicyAlways **constant** [10](#)
NSHTTPCookieAcceptPolicyNever **constant** [10](#)
NSHTTPCookieAcceptPolicyOnlyFromMainDocumentDomain
constant [10](#)
NSHTTPCookieManagerAcceptPolicyChangedNotification
notification [10](#)
NSHTTPCookieManagerCookiesChangedNotification
notification [10](#)

S

setCookieAcceptPolicy: **instance method** [8](#)
setCookie: **instance method** [8](#)
setCookies:forURL:mainDocumentURL: **instance
method** [9](#)
sharedHTTPCookieStorage **class method** [6](#)