
NSURLResponse Class Reference

[Cocoa > Objective-C Language](#)



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

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NSURLResponse Class Reference

Inherits from	NSObject
Conforms to	NSCoding NSCopying 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	NSURLResponse.h
Related sample code	URL CacheInfo

Overview

`NSURLResponse` declares the programmatic interface for an object that accesses the response returned by an `NSURLRequest` instance.

`NSURLResponse` encapsulates the metadata associated with a URL load in a manner independent of protocol and URL scheme.

`NSHTTPURLResponse` is a subclass of `NSURLResponse` that provides methods for accessing information specific to HTTP protocol responses. An `NSHTTPURLResponse` object represents a response to an HTTP URL load request.

Note: `NSURLResponse` objects do not contain the actual bytes representing the content of a URL. See `NSURLConnection` for more information about receiving the content data for a URL load.

Adopted Protocols

NSCoding

```
encodeWithCoder:  
initWithCoder:
```

NSCopying

`copyWithZone:`

Tasks

Creating a Response

- [initWithURL:MIMEType:expectedContentLength:textEncodingName:](#) (page 7)
Returns an initialized `NSURLResponse` object with the URL, MIME type, length, and text encoding set to given values.

Getting the Response Properties

- [expectedContentLength](#) (page 6)
Returns the receiver's expected content length
- [suggestedFilename](#) (page 8)
Returns a suggested filename for the response data.
- [MIMEType](#) (page 7)
Returns the receiver's MIME type.
- [textEncodingName](#) (page 8)
Returns the name of the receiver's text encoding provided by the response's originating source.
- [URL](#) (page 9)
Returns the receiver's URL.

Instance Methods

expectedContentLength

Returns the receiver's expected content length

- (long)expectedContentLength

Return Value

The receiver's expected content length, or `NSURLResponseUnknownLength` if the length can't be determined.

Discussion

Some protocol implementations report the content length as part of the response, but not all protocols guarantee to deliver that amount of data. Clients should be prepared to deal with more or less 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

`NSURLResponse.h`

initWithURL:MIMETYPE:expectedContentLength:textEncodingName:

Returns an initialized `NSURLResponse` object with the URL, MIME type, length, and text encoding set to given values.

```
- (id)initWithURL:(NSURL *)URL MIMETYPE:(NSString *)MIMETYPE
  expectedContentLength:(NSInteger)length textEncodingName:(NSString *)name
```

Parameters*URL*

The URL for the new object.

MIMETYPE

The MIME type.

length

The expected content length. This value should be -1 if the expected length is undetermined

name

The text encoding name. This value may be `nil`.

Return Value

An initialized `NSURLResponse` object with the URL set to *URL*, the MIME type set to *MIMETYPE*, length set to *length*, and text encoding name set to *name*.

Discussion

This is the designated initializer for `NSURLResponse`.

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

`NSURLResponse.h`

MIMETYPE

Returns the receiver's MIME type.

```
- (NSString *)MIMETYPE
```

Return Value

The receiver's MIME type.

Discussion

The MIME type is often provided by the response's originating source. However, that value may be changed or corrected by a protocol implementation if it can be determined that the response's source reported the information incorrectly.

If the response's originating source does not provide a MIME type, an attempt to guess the MIME type may be made.

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

NSURLResponse.h

suggestedFilename

Returns a suggested filename for the response data.

- (NSString *)suggestedFilename

Return Value

A suggested filename for the response data.

Discussion

The method tries to create a filename using the following, in order:

1. A filename specified using the content disposition header.
2. The last path component of the URL.
3. The host of the URL.

If the host of URL can't be converted to a valid filename, the filename "unknown" is used.

In most cases, this method appends the proper file extension based on the MIME type. This method will always return a valid filename regardless of whether or not the resource is saved to disk.

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

NSURLResponse.h

textEncodingName

Returns the name of the receiver's text encoding provided by the response's originating source.

- (NSString *)textEncodingName

Return Value

The name of the receiver's text encoding provided by the response's originating source, or nil if no text encoding was provided by the protocol

DiscussionClients can convert this string to an `NSStringEncoding` or a `CFStringEncoding` using the methods and functions available in the appropriate framework.**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

NSURLResponse.h

URL

Returns the receiver's URL.

```
- (NSURL *)URL
```

Return Value

The receiver's URL.

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

NSURLResponse.h

Constants

Response Length Unknown Error

The following error code is returned by [expectedContentLength](#) (page 6).

```
#define NSURLResponseUnknownLength ((long long)-1)
```

Constants

NSURLResponseUnknownLength

Returned when the response length cannot be determined in advance of receiving the data from the server. For example, `NSURLResponseUnknownLength` is returned when the server HTTP response does not include a `Content-Length` header.

Available in Mac OS X v10.2 and later.

Declared in `NSURLResponse.h`.

Document Revision History

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

Date	Notes
2007-12-11	Added documentation for the <code>NSURLResponseUnknownLength</code> macro.
2006-05-23	First publication of this content as a separate document.
	First publication of this content as a separate document.

REVISION HISTORY

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