Class

# URLResponse

The metadata associated with the response to a URL load request, independent of protocol and URL scheme.

iOS 2.0+ | iPadOS 2.0+ | Mac Catalyst 13.1+ | macOS 10.2+ | tvOS 9.0+ | visionOS 1.0+ | watchOS 2.0+

```
class URLResponse
```

## Mentioned in

📄 Processing URL session data task results with Combine

📄 Downloading files from websites

## Overview

The related `HTTPURLResponse` class is a commonly used subclass of `URLResponse` whose objects represent a response to an HTTP URL load request and store additional protocol-specific information such as the response headers. Whenever you make an HTTP request, the `URLResponse` object you get back is actually an instance of the `HTTPURLResponse` class.

> **Note**
>
> `URLResponse` objects don't contain the actual bytes representing the content of a URL. Instead, the data is returned either a piece at a time through delegate calls or in its entirety when the request completes, depending on the method and class used to initiate the request.
>
> Read Fetching website data into memory to learn various ways to receive the content data from a URL load.

# Topics

## Creating a response

`init(url: URL, mimeType: String?, expectedContentLength: Int, textEncodingName: String?)`

Creates an initialized <u>URLResponse</u> object with the URL, MIME type, length, and text encoding set to given values.

## Getting the response properties

`var expectedContentLength: Int64`

The expected length of the response's content.

`var suggestedFilename: String?`

A suggested filename for the response data.

`var mimeType: String?`

The MIME type of the response.

`var textEncodingName: String?`

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

`var url: URL?`

The URL for the response.

# Relationships

## Inherits From

`NSObject`

## Inherited By

`HTTPURLResponse`

# Conforms To

```
CVarArg
CustomDebugStringConvertible
CustomStringConvertible
Equatable
Hashable
NSCoding
NSCopying
NSObjectProtocol
NSSecureCoding
Sendable
SendableMetatype
```

# See Also

## Requests and responses

`struct` `URLRequest`

A URL load request that is independent of protocol or URL scheme.

`class` `NSURLRequest`

A URL load request that is independent of protocol or URL scheme.

`class` `NSMutableURLRequest`

A mutable URL load request that is independent of protocol or URL scheme.

`class` `HTTPURLResponse`

The metadata associated with the response to an HTTP protocol URL load request.