1 System.Net.HttpWebResponse Class

```
[ILAsm]
.class public serializable HttpWebResponse extends System.Net.WebResponse

[C#]
public class HttpWebResponse: WebResponse
```

Assembly Info:

- *Name:* System
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
   - CLSCompliantAttribute(true)

Implements:

- **System.IDisposable**

Summary

Provides an HTTP-specific implementation of the `System.Net.WebResponse` class.

Inherits From: System.Net.WebResponse

Library: Networking

Thread Safety: All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

Description

[*Note:* The `System.Net.HttpWebResponse` class contains support for the properties and methods included in `System.Net.WebResponse` with additional elements that enable the user to interact directly with the Hypertext Transfer Protocol (HTTP).

Expected usage is that instances of this class are not created directly but are obtained by calling `System.Net.HttpWebRequest.GetResponse`. To obtain the response from the Internet resource as a `System.IO.Stream`, call the `System.Net.HttpWebResponse.GetResponseStream` method.

Certain HTTP headers are protected such that the user cannot set them directly in the header collection. Instead, these headers can be set via the properties of the `System.Net.HttpWebRequest` class or are set by the system. The following table details these protected headers.

Header	Set by

Accept	`System.Net.HttpWebRequest.Accept`

Connection	`System.Net.HttpWebRequest.Connection`
	
	`System.Net.HttpWebRequest.KeepAlive`

Content-Length	`System.Net.HttpWebRequest.ContentLength`
Content-Type	`System.Net.HttpWebRequest.ContentType`
Expect	`System.Net.HttpWebRequest.Expect`
Date	Set to current date by the system.
Host	Set to current host by the system.
if-Modified-since	`System.Net.HttpWebRequest.IfModifiedSince`
Range	`System.Net.HttpWebRequest.AddRange`
Referer	`System.Net.HttpWebRequest.Referer`

Transfer-Encoding	`System.Net.HttpWebRequest.TransferEncoding`
	
	`System.Net.HttpWebRequest.SendChunked`

User-Agent	`System.Net.HttpWebRequest.UserAgent`

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HttpWebResponse.Close() Method

```
[ILAsm]
.method public hidebysig virtual void Close()

[C#]
public override void Close()
```

Summary

Closes the response stream.

Description

The System.Net.HttpWebResponse.Close method closes the response stream and
releases the connection to the Internet resource for reuse by other requests.

[*Note:* Call either the System.IO.Stream.Close or
System.Net.HttpWebResponse.Close method to close the stream and release the
connection for reuse. It is not necessary to call both System.IO.Stream.Close and
System.Net.HttpWebResponse.Close, but doing so does not cause an error. Failure to
close the stream might cause an application to run out of connections.

This method overrides System.Net.WebResponse.Close.

]

HttpWebResponse.Dispose(System.Boolean) Method

```
[ILAsm]
.method family hidebysig virtual void Dispose(bool disposing)


[C#]
protected virtual void Dispose(bool disposing)
```

Summary

Releases the unmanaged resources used by the current instance and optionally releases the managed resources.

Parameters

Parameter	Description
disposing	`true` to release both managed and unmanaged resources; `false` to release only unmanaged resources.

Behaviors

When *disposing* is `true`, this method releases all resources held by any managed objects that the current instance references.

How and When to Override

When overriding `System.Net.HttpWebResponse.Dispose(System.Boolean)`, be careful not to reference objects that have been previously disposed in an earlier call to `System.Net.HttpWebResponse.Dispose` as `System.Net.HttpWebResponse.Dispose` can be called multiple times by other objects..

1 HttpWebResponse.GetHashCode() Method

```
[ILAsm]
.method public hidebysig virtual int32 GetHashCode()

[C#]
public override int GetHashCode()
```

6 Summary

7 Generates a hash code for the current instance.

8 Return Value

9 A `System.Int32` containing the hash code for the current instance.

10 Description

11 The algorithm used to generate the hash code is unspecified.

13 [*Note:* This method overrides `System.Object.GetHashCode`.]

16 Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.GetResponseHeader(System.String) Method

```
[ILAsm]
.method public hidebysig instance string GetResponseHeader(string
headerName)


[C#]
public string GetResponseHeader(string headerName)
```

Summary

Returns a specified header from the current response.

Parameters

Parameter	Description
headerName	A System.String that specifies the header value to return.

Return Value

A System.String containing the value of the specified header.

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.GetResponseStream() Method

```
[ILAsm]
.method public hidebysig virtual class System.IO.Stream
GetResponseStream()

[C#]
public override Stream GetResponseStream()
```

Summary

Returns a `System.IO.Stream` for reading the body of the response from the server.

Return Value

A `System.IO.Stream` containing the body of the response.

Description

The `System.Net.HttpWebResponse.GetResponseStream` method returns the data stream from the requested Internet resource.

[*Note:* Call either the `System.IO.Stream.Close` or `System.Net.HttpWebResponse.Close` method to close the stream and release the connection for reuse. It is not necessary to call both `System.IO.Stream.Close` and `System.Net.HttpWebResponse.Close`, but doing so does not cause an error. Failure to close the stream might cause an application to run out of connections.

This method overrides `System.Net.WebResponse.GetResponseStream`.

]

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.CharacterSet Property

```
[ILAsm]
.property string CharacterSet { public hidebysig specialname instance
string get_CharacterSet() }

[C#]
public string CharacterSet { get; }
```

Summary

Gets the character set used for the current instance.

Property Value

A `System.String` that represents the character set used for the current instance.

Description

This property is read-only.

[*Note:* For detailed information about character sets, see Section 3.4 of RFC 2616.]

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.ContentEncoding Property

```
[ILAsm]
.property string ContentEncoding { public hidebysig specialname instance
string get_ContentEncoding() }


[C#]
public string ContentEncoding { get; }
```

Summary

Gets the method used to encode the body of the response.

Property Value

A `System.String` that describes the method used to encode the body of the response.

Description

This property is read-only.

The `System.Net.HttpWebResponse.ContentEncoding` property contains the value of the `Content-Encoding` header returned with the response.

[*Note:* For detailed information about content encoding, see Section 3.5 of RFC 2616.]

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.ContentLength Property

```
[ILAsm]
.property int64 ContentLength { public hidebysig virtual specialname int64
get_ContentLength() }


[C#]
public override long ContentLength { get; }
```

Summary

Gets the content length of the response data being received.

Property Value

A `System.Int64` containing the number of bytes returned from the Internet resource.
This value does not include header information.

Description

This property is read-only.

The `System.Net.HttpWebResponse.ContentLength` property contains the value of the
`Content-length` header returned with the response. If the `Content-length` header is
not set in the response, `System.Net.HttpWebResponse.ContentLength` is set to the
value -1.

[*Note:* This property overrides `System.Net.WebResponse.ContentLength`.]

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

1 HttpWebResponse.ContentType Property

```
[ILAsm]
.property string ContentType { public hidebysig virtual specialname string
get_ContentType() }


[C#]
public override string ContentType { get; }
```

7 Summary

8   Gets the content type of the response.

9 Property Value

10   A `System.String` that represents the content type of the response data.

11 Description

12   This property is read-only.

13
14   The `System.Net.HttpWebResponse.ContentType` property contains the value of the
15   `Content-Type` header returned with the response.

16
17   [*Note:* This property overrides `System.Net.WebResponse.ContentType`.]
18
19

20 Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

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22

HttpWebResponse.Headers Property

```
[ILAsm]
.property class System.Net.WebHeaderCollection Headers { public hidebysig
virtual specialname class System.Net.WebHeaderCollection get_Headers() }


[C#]
public override WebHeaderCollection Headers { get; }
```

Summary

Gets the headers associated with the current response from the server.

Property Value

A `System.Net.WebHeaderCollection` containing the header information returned with the response.

Description

This property is read-only.

[*Note:* The `System.Net.HttpWebResponse.Headers` property is a collection of name/value pairs containing the HTTP header values returned with the response. The following table lists common headers and the properties that store their values.

Header	Property
Content-Encoding	System.Net.HttpWebResponse.ContentEncoding
Content-Length	System.Net.HttpWebResponse.ContentLength
Content-Type	System.Net.HttpWebResponse.ContentType
Last-Modified	System.Net.HttpWebResponse.LastModified
Server	System.Net.HttpWebResponse.Server

This property overrides `System.Net.WebResponse.Headers`.

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Exceptions

Exception	Condition

System.ObjectDisposedException	The current instance has been disposed.

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1 HttpWebResponse.LastModified Property

```
[ILAsm]
.property valuetype System.DateTime LastModified { public hidebysig
specialname instance valuetype System.DateTime get_LastModified() }


[C#]
public DateTime LastModified { get; }
```

Summary

Gets the last date and time that the contents of the response were modified.

Property Value

A `System.DateTime` value containing the date and time the contents of the response were modified.

Description

This property is read-only.

The `System.Net.HttpWebResponse.LastModified` property contains the value of the `Last-Modified` header received with the response.

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.Method Property

```
[ILAsm]
.property string Method { public hidebysig specialname instance string
get_Method() }
```

```
[C#]
public string Method { get; }
```

Summary

Gets the method used to return the response.

Property Value

A `System.String` that represents the HTTP method used to return the response.

Description

This property is read-only.

[*Note:* The `System.Net.HttpWebRequest.Method` property can be set to any of the HTTP 1.1 protocol methods: GET, HEAD, POST, PUT, DELETE, TRACE, or OPTIONS. The following table describes these methods.

Item	Description
GET	Retrieves in entity-body form the information identified by the `System.Net.HttpWebRequest.RequestUri` property of the request associated with the current instance.
HEAD	Identical to GET except that the message-body is not returned in the response.
POST	Requests that the origin server accept the entity enclosed in the request as a new subordinate of the resource identified the Request-URI in the Request-Line.
PUT	Requests that the enclosed entity be stored under the supplied Request-URI.
DELETE	Requests that the origin server delete the resource identified by the Request-URI.
TRACE	Invokes a remote, application-layer loopback of the request message.
OPTIONS	Requests information about the communication options available on the request/response chain identified by the Request-URI. [*Note:* This allows the client to determine the options and/or requirements associated with a resource, or the capabilities of a server, without implying a resource action or initiating a

	resource retrieval.]

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2   For detailed information regarding these methods, see sections 9.2 to 9.8 of RFC 2616.
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5 **Exceptions**

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

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HttpWebResponse.ProtocolVersion Property

```
[ILAsm]
.property class System.Version ProtocolVersion { public hidebysig
specialname instance class System.Version get_ProtocolVersion() }


[C#]
public Version ProtocolVersion { get; }
```

Summary

Gets the version of the HTTP protocol used in the response.

Property Value

A `System.Version` that contains the HTTP protocol version of the response.

Description

This property is read-only.

The `System.Net.HttpWebResponse.ProtocolVersion` property contains the
`System.Net.HttpVersion` number of the response sent by the Internet resource.

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

1 HttpWebResponse.ResponseUri Property

```
[ILAsm]
.property class System.Uri ResponseUri { public hidebysig virtual
specialname class System.Uri get_ResponseUri() }


[C#]
public override Uri ResponseUri { get; }
```

7 Summary

8   Gets the `System.Uri` of the Internet resource that actually responded to the request.

9 Property Value

10   A `System.Uri` representing the resource that actually responded to the request.

11 Description

12   This property is read-only.
13
14   [*Note:* The `System.Net.HttpWebResponse.ResponseUri` property contains the URI of
15   the Internet resource that actually responded to the request. This URI might not be the
16   same as the originally requested URI if the request was redirected by the original server.
17
18   This method overrides `System.Net.WebResponse.ResponseUri`.
19
20   ]

21 Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

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HttpWebResponse.Server Property

```
[ILAsm]
.property string Server { public hidebysig specialname instance string
get_Server() }


[C#]
public string Server { get; }
```

Summary

Gets the name of the server that sent the response.

Property Value

A `System.String` containing the name of the server that sent the response.

Description

This property is read-only.

The `System.Net.HttpWebResponse.Server` property contains the value of the `Server` header returned with the response.

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HttpWebResponse.StatusCode Property

```
[ILAsm]
.property valuetype System.Net.HttpStatusCode StatusCode { public
hidebysig specialname instance valuetype System.Net.HttpStatusCode
get_StatusCode() }

[C#]
public HttpStatusCode StatusCode { get; }
```

Summary

Gets the status of the response.

Property Value

A System.Net.HttpStatusCode value.

Description

This property is read-only.

The System.Net.HttpWebResponse.StatusCode value indicates the status of the HTTP response. The expected values are defined in the System.Net.HttpStatusCode enumeration.

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.

HtpWebResponse.StatusDescription Property

```
[ILAsm]
.property string StatusDescription { public hidebysig specialname instance
string get_StatusDescription() }

[C#]
public string StatusDescription { get; }
```

Summary

Gets the status description returned with the response.

Property Value

A `System.String` that describes the status of the response.

Description

This property is read-only.

Exceptions

Exception	Condition
System.ObjectDisposedException	The current instance has been disposed.