

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]
- *Version:* 1.0.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

1 set via the properties of the **System.Net.HttpWebRequest** class or
 2 are set by the system. The following table details these protected
 3 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

4]
 5]

6

1 `HttpWebResponse.Close()` Method

```
2 [ILASM]  
3 .method public hidebysig virtual void Close()  
4 [C#]  
5 public override void Close()
```

6 **Summary**

7 Closes the response stream.

8 **Description**

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

12
13 [Note: Call either the **System.IO.Stream.Close** or
14 **System.Net.HttpWebResponse.Close** method to close the stream
15 and release the connection for reuse. It is not necessary to call both
16 **System.IO.Stream.Close** and
17 **System.Net.HttpWebResponse.Close**, but doing so does not cause
18 an error. Failure to close the stream may cause an application to run
19 out of connections.

20
21 This method overrides **System.Net.WebResponse.Close.**]

22

1 `HttpWebResponse.Dispose(System.Boolean)` Method

3 `[ILASM]`
4 `.method family hidebysig virtual void Dispose(bool`
5 `disposing)`

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

8 **Summary**

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

11 **Parameters**

Parameter	Description
<i>disposing</i>	true to release both managed and unmanaged resources; false to release only unmanaged resources.

14
15

16 **Behaviors**

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

19 **How and When to Override**

20 When overriding
21 **`System.Net.HttpWebResponse.Dispose(System.Boolean)`**, be
22 careful not to reference objects that have been previously disposed in
23 an earlier call to **`System.Net.HttpWebResponse.Dispose`** as
24 **`System.Net.HttpWebResponse.Dispose`** may be called multiple
25 times by other objects..

26

1 `HttpWebResponse.GetHashCode()` Method

```
2 [ILASM]  
3 .method public hidebysig virtual int32 GetHashCode()  
4 [C#]  
5 public override int GetHashCode()
```

6 **Summary**

7 Generates a hash code for the current instance.

8 **Return Value**

9

10 A **System.Int32** containing the hash code for the current instance.

11 **Description**

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

13

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

15 **Exceptions**

16

17

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

18

19

20

1 `HttpWebResponse.GetResponseHeader(System.String)` Method

```
3 [ILASM]  
4 .method public hidebysig instance string  
5 GetResponseHeader(string headerName)  
  
6 [C#]  
7 public string GetResponseHeader(string headerName)
```

8 **Summary**

9 Returns a specified header from the current response.

10 **Parameters**

11
12

Parameter	Description
<i>headerName</i>	A System.String that specifies the header value to return.

13
14
15

14 **Return Value**

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

17 **Exceptions**

18
19

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

20
21
22

1 **HttpWebResponse.GetResponseStream()**

2 **Method**

```
3 [ILASM]  
4 .method public hidebysig virtual class System.IO.Stream  
5 GetResponseStream()  
  
6 [C#]  
7 public override Stream GetResponseStream()
```

8 **Summary**

9 Returns a **System.IO.Stream** for reading the body of the response
10 from the server.

11 **Return Value**

12

13 A **System.IO.Stream** containing the body of the response.

14 **Description**

15 The **System.Net.HttpWebResponse.GetResponseStream** method
16 returns the data stream from the requested Internet resource.

17

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

25

26 This method overrides
27 **System.Net.WebResponse.GetResponseStream.**]

28 **Exceptions**

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

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1 HttpWebResponse.CharacterSet Property

```
2 [ILASM]
3 .property string CharacterSet { public hideby sig
4 specialname instance string get_CharacterSet() }
5
6 [C#]
7 public string CharacterSet { get; }
```

7 Summary

8 Gets the character set used for the current instance.

9 Property Value

10

11 A **System.String** that represents the character set used for the
12 current instance.

13 Description

14 This property is read-only.

15

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

18 Exceptions

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

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22

23

1 **HttpWebResponse.ContentEncoding**

2 **Property**

```
3 [ILASM]  
4 .property string ContentEncoding { public hideby sig  
5 specialname instance string get_ContentEncoding() }  
  
6 [C#]  
7 public string ContentEncoding { get; }
```

8 **Summary**

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

10 **Property Value**

11

12 A **System.String** that describes the method used to encode the body
13 of the response.

14 **Description**

15 This property is read-only.

16

17 The **System.Net.HttpWebResponse.ContentEncoding** property
18 contains the value of the **Content-Encoding** header returned with the
19 response.

20

21 [*Note:* For detailed information about content encoding, see Section
22 3.5 of RFC 2616.]

23 **Exceptions**

24

25

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

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1 **HttpWebResponse.ContentLength**

2 **Property**

```
3 [ILASM]  
4 .property int64 ContentLength { public hidebysig virtual  
5 specialname int64 get_ContentLength() }  
  
6 [C#]  
7 public override long ContentLength { get; }
```

8 **Summary**

9 Gets the content length of the response data being received.

10 **Property Value**

11

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

14 **Description**

15 This property is read-only.

16

17 The **System.Net.HttpWebResponse.ContentLength** property
18 contains the value of the **Content-length** header returned with the
19 response. If the **Content-length** header is not set in the response,
20 **System.Net.HttpWebResponse.ContentLength** is set to the value -
21 1.

22

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

25 **Exceptions**

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

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1 **HttpWebResponse.ContentType Property**

```
2 [ILASM]
3 .property string ContentType { public hidebysig virtual
4 specialname string get_ContentType() }
5
6 [C#]
7 public override string ContentType { get; }
```

7 **Summary**

8 Gets the content type of the response.

9 **Property Value**

10

11 A **System.String** that represents the content type of the response
12 data.

13 **Description**

14 This property is read-only.

15

16 The **System.Net.HttpWebResponse.ContentType** property contains
17 the value of the **Content-Type** header returned with the response.

18

19 [*Note:* This property overrides
20 **System.Net.WebResponse.ContentType.**]

21 **Exceptions**

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

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1 HttpWebResponse.Headers Property

```
2 [ILASM]
3 .property class System.Net.WebHeaderCollection Headers {
4 public hidebysig virtual specialname class
5 System.Net.WebHeaderCollection get_Headers() }
6
7 [C#]
8 public override WebHeaderCollection Headers { get; }
```

8 Summary

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

11 Property Value

12

13 A **System.Net.WebHeaderCollection** containing the header
14 information returned with the response.

15 Description

16 This property is read-only.

17

18 [*Note:* The **System.Net.HttpWebResponse.Headers** property is a
19 collection of name/value pairs containing the HTTP header values
20 returned with the response. The following table lists common headers
21 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

22

23 This property overrides **System.Net.WebResponse.Headers.**]

24 Exceptions

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

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1 HttpWebResponse.LastModified Property

```
2 [ILASM]
3 .property valuetype System.DateTime LastModified { public
4 hidebysig specialname instance valuetype System.DateTime
5 get_LastModified() }
6
7 [C#]
8 public DateTime LastModified { get; }
```

8 Summary

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

11 Property Value

12

13 A **System.DateTime** value containing the date and time the contents
14 of the response were modified.

15 Description

16 This property is read-only.

17

18 The **System.Net.HttpWebResponse.LastModified** property
19 contains the value of the **Last-Modified** header received with the
20 response.

21 Exceptions

22

23

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

24

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26

1 HttpWebResponse.Method Property

```
2 [ILASM]
3 .property string Method { public hidebysig specialname
4 instance string get_Method() }
5
6 [C#]
7 public string Method { get; }
```

7 Summary

8 Gets the method used to return the response.

9 Property Value

10

11 A **System.String** that represents the HTTP method used to return the
12 response.

13 Description

14 This property is read-only.

15

16 [*Note:* The **System.Net.HttpWebRequest.Method** property can be
17 set to any of the HTTP 1.1 protocol methods: GET, HEAD, POST, PUT,
18 DELETE, TRACE, or OPTIONS. The following table describes these
19 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. [<i>Note:</i> 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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For detailed information regarding these methods, see sections 9.2 to 9.8 of RFC 2616.]

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Exceptions

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

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9

1 HttpWebResponse.ProtocolVersion

2 Property

```
3 [ILASM]
4 .property class System.Version ProtocolVersion { public
5 hidebysig specialname instance class System.Version
6 get_ProtocolVersion() }
7
8 [C#]
9 public Version ProtocolVersion { get; }
```

9 Summary

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

11 Property Value

12

13 A **System.Version** that contains the HTTP protocol version of the
14 response.

15 Description

16 This property is read-only.

17

18 The **System.Net.HttpWebResponse.ProtocolVersion** property
19 contains the **System.Net.HttpVersion** number of the response sent
20 by the Internet resource.

21 Exceptions

22

23

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

24

25

26

1 HttpWebResponse.ResponseUri Property

```
2 [ILASM]
3 .property class System.Uri ResponseUri { public hidebyref
4 virtual specialname class System.Uri get_ResponseUri() }
5 [C#]
6 public override Uri ResponseUri { get; }
```

7 Summary

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

10 Property Value

11

12 A **System.Uri** representing the resource that actually responded to
13 the request.

14 Description

15 This property is read-only.

16

17 [*Note:* The **System.Net.HttpWebResponse.ResponseUri** property
18 contains the URI of the Internet resource that actually responded to
19 the request. This URI may not be the same as the originally requested
20 URI if the request was redirected by the original server.

21

22 This method overrides **System.Net.WebResponse.ResponseUri.**]

23 Exceptions

24

25

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

26

27

28

1 HttpWebResponse.Server Property

```
2 [ILASM]
3 .property string Server { public hidebysig specialname
4 instance string get_Server() }
5
6 [C#]
7 public string Server { get; }
```

7 Summary

8 Gets the name of the server that sent the response.

9 Property Value

10

11 A **System.String** containing the name of the server that sent the
12 response.

13 Description

14 This property is read-only.

15

16 The **System.Net.HttpWebResponse.Server** property contains the
17 value of the **Server** header returned with the response.

18 Exceptions

19

20

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

21

22

23

1 **HttpWebResponse.StatusCode** Property

```
2 [ILASM]
3 .property valuetype System.Net.HttpStatusCode StatusCode {
4 public hidebysig specialname instance valuetype
5 System.Net.HttpStatusCode get_StatusCode() }
6
7 [C#]
8 public HttpStatusCode StatusCode { get; }
```

8 **Summary**

9 Gets the status of the response.

10 **Property Value**

11

12 A **System.Net.HttpStatusCode** value.

13 **Description**

14 This property is read-only.

15

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

19 **Exceptions**

20

21

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

22

23

24

1 **HttpWebResponse.StatusDescription**

2 **Property**

```
3 [ILASM]  
4 .property string StatusDescription { public hideby sig  
5 specialname instance string get_StatusDescription() }  
6  
7 [C#]  
8 public string StatusDescription { get; }
```

8 **Summary**

9 Gets the status description returned with the response.

10 **Property Value**

11

12 A **System.String** that describes the status of the response.

13 **Description**

14 This property is read-only.

15 **Exceptions**

16

17

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

18

19