

1 System.Net.WebResponse Class

```
2 [ILAsm]  
3 .class public abstract serializable WebResponse extends  
4 System.MarshalByRefObject implements System.IDisposable  
  
5 [C#]  
6 public abstract class WebResponse: MarshalByRefObject, IDisposable
```

7 Assembly Info:

- 8 • *Name:* System
- 9 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 10 • *Version:* 2.0.x.x
- 11 • *Attributes:*
 - 12 ○ CLSCompliantAttribute(true)

13 Implements:

- 14 • **System.IDisposable**

15 Summary

16 Represents a response received from a Uniform Resource Identifier (URI).

17 Inherits From: System.MarshalByRefObject

18
19 **Library:** Networking

20
21 **Thread Safety:** All public static members of this type are safe for multithreaded operations.
22 No instance members are guaranteed to be thread safe.

23 24 Description

25 System.Net.WebResponse is the base class from which protocol-specific response
26 classes, such as System.Net.HttpWebResponse, are derived.

27
28 Classes that derive from System.Net.WebResponse are required to override the
29 following members in the System.Net.WebResponse class:

- 30 • System.Net.WebResponse.ContentLength: Gets or sets the content length of the
31 data being received.
- 32 • System.Net.WebResponse.ContentType: Gets or sets the media type of the data
33 being received.
- 34 • System.Net.WebResponse.GetResponseStream: Returns a System.IO.Stream that
35 contains data from the current host.

1 • `System.Net.WebResponse.ResponseUri`: Gets a `System.Uri` containing the URI of
2 the resource associated with the current instance.

3 • `System.Net.WebResponse.Headers`: Gets or sets the collection of header
4 name/value pairs associated with the current instance.

5 [*Note*: Applications can participate in request/response transactions in a protocol-agnostic
6 manner using instances of the `System.Net.WebResponse` class while protocol-specific
7 classes derived from `System.Net.WebResponse` carry out the details of the request.

8

9 Applications do not create `System.Net.WebResponse` objects directly; they are created by
10 calling `System.Net.WebRequest.GetResponse`.

11

12]

13 **Example**

14 The following example creates a `System.Net.WebResponse` instance from a
15 `System.Net.WebRequest`.

16

17 [C#]

18 using System;

19 using System.Net;

20

21 public class WebResponseExample {

22

23 public static void Main() {

24

25 // Initialize the WebRequest.

26 WebRequest myRequest =

27 WebRequest.Create("http://www.contoso.com");

28

29 // Return the response.

30 WebResponse myResponse = myRequest.GetResponse();

31

32 // Code to use the WebResponse goes here.

33

34 // Close the response to free resources.

35 myResponse.Close();

36 }

37 }

38

1 WebResponse() Constructor

```
2 [ILAsm]  
3 family rtspecialname specialname instance void .ctor()  
4 [C#]  
5 protected WebResponse()
```

6 Summary

7 Constructs a new instance of the `System.Net.WebResponse` class.

8 Description

9 This constructor is called only by classes that derive from `System.Net.WebResponse`.
10

11 [*Note:* To obtain a `System.Net.WebResponse` instance, use the
12 `System.Net.WebRequest.GetResponse` method; do not use this constructor.]
13
14

15

1 `WebResponse.Close()` Method

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

6 **Summary**

7 Closes the response stream.

8 **Behaviors**

9 This method is required to free the connection used by the `System.IO.Stream` returned
10 by a call to `System.Net.WebResponse.GetResponseStream`.

11

12 **Default**

13 The `System.Net.WebResponse` class is abstract and does not provide an implementation
14 for this method. This method throws `System.NotSupportedException`.

15

16 **How and When to Override**

17 This method is required to be overridden in derived classes to close the response stream
18 and free resources allocated by the current instance.

19

20 **Usage**

21 Use this method or `System.IO.Stream.Close` to clean up the resources used by a
22 `System.Net.WebResponse`.

23

24 **Exceptions**

Exception	Condition
System.NotSupportedException	This method is not implemented in the derived class.

25

26

1 **WebResponse.GetResponseStream()** Method

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

7 **Summary**

8 Returns a `System.IO.Stream` that contains data from the current host.

9 **Return Value**

10 A `System.IO.Stream` for reading data from the current host.

11 **Behaviors**

12 This method is required to return a `System.IO.Stream` from the host specified by the
13 `System.Net.WebResponse.ResponseUri` property of the current instance.

14

15 **Default**

16 This method throws `System.NotSupportedException`.

17

18 **How and When to Override**

19 This method is required to be overridden by classes that inherit from
20 `System.Net.WebResponse`.

21

22 **Usage**

23 Use this method to open a connection to the current host. To close the stream when it is
24 no longer needed, in order to prevent the exhaustion of system resources, invoke either
25 the `System.IO.Stream.Close` or `System.Net.WebResponse.Close` methods.

26

27 **Exceptions**

Exception	Condition
System.NotSupportedException	This method is not implemented in the derived class.

1

2

1 **WebResponse.System.IDisposable.Dispose()** 2 **Method**

```
3 [ILAsm]  
4 .method private final hidebysig virtual void System.IDisposable.Dispose()  
5 [C#]  
6 void IDisposable.Dispose()
```

7 **Summary**

8 Implemented to support the `System.IDisposable` interface. [Note: For more
9 information, see `System.IDisposable.Dispose`.]

10

WebResponse.ContentLength Property

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

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

Summary

Gets or sets the content length of the data received from the server.

Property Value

A `System.Int64` containing the number of bytes returned from the resource.

Behaviors

This property contains the number of bytes of data in the response to the request associated with the current instance. For request methods that contain header information, the `System.Net.WebResponse.ContentLength` does not include the length of the header information. The value of this property is set by the Content-Length header received in the response.

Default

The `System.Net.WebResponse` class is abstract and does not provide an implementation for this property. This property throws `System.NotSupportedException`.

How and When to Override

This property is required to be overridden by classes that inherit from `System.Net.WebResponse` to set the content length as appropriate for the derived class.

Usage

Use this property to determine the number of bytes in the response.

Exceptions

Exception	Condition
System.NotSupportedException	This property is not implemented in the derived class.

1

2

1 **WebResponse.ContentType Property**

```
2 [ILAsm]  
3 .property string ContentType { public hidebysig virtual specialname string  
4 get_ContentType() public hidebysig virtual specialname void  
5 set_ContentType(string value) }  
6 [C#]  
7 public virtual string ContentType { get; set; }
```

8 **Summary**

9 Gets or sets the media type of the data received.

10 **Property Value**

11 A `System.String` that contains the media type of the response data.

12 **Description**

13 [*Note:* The media type is typically the MIME encoding of the content.]
14
15

16 **Behaviors**

17 As described above.
18

19 **Default**

20 The `System.Net.WebResponse` class is abstract and does not provide an implementation
21 for this property. This property throws `System.NotSupportedException`.
22

23 **How and When to Override**

24 This property is required to be overridden by classes that inherit from
25 `System.Net.WebResponse`.
26

27 **Usage**

28 Use this property to get the media type of the response.
29

1 **Exceptions**

Exception	Condition
System.NotSupportedException	This property is not implemented in the derived class.

2

3

1 **WebResponse.Headers Property**

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

7 **Summary**

8 Gets the collection of header name/value pairs associated with the current instance.

9 **Property Value**

10 A `System.Net.WebHeaderCollection` containing the header name/value pairs
11 associated with the current instance.

12 **Description**

13 This property contains a `System.Net.WebHeaderCollection` instance containing the
14 header information returned in the response from the resource.

15 **Behaviors**

16 This property is read-only.

17

18 **Default**

19 The `System.Net.WebResponse` class is abstract and does not provide an implementation
20 for this property. This property throws `System.NotSupportedException`.

21

22 **How and When to Override**

23 This property is required to be overridden by classes that inherit from
24 `System.Net.WebResponse`.

25

26 **Usage**

27 Use this property to retrieve the header information received with the response.

28

1 **Exceptions**

Exception	Condition
System.NotSupportedException	This property is not implemented in the derived class.

2

3

1 **WebResponse.ResponseUri Property**

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

7 **Summary**

8 Gets the URI of the resource associated with the current instance.

9 **Property Value**

10 A `System.Uri` containing the URI of the resource associated with the current response.

11 **Behaviors**

12 This property is read-only.

13
14 This property returns the URI that provided the response information in the current
15 instance. [*Note:* If the method protocol used in the associated `System.Net.WebRequest`
16 permits redirection, the value of this property might differ from the
17 `System.Net.WebRequest.RequestUri` property of the request.]

20 **Default**

21 The `System.Net.WebResponse` class is abstract and does not provide an implementation
22 for this property. This property throws `System.NotSupportedException`.

24 **How and When to Override**

25 This property is required to be overridden by classes that inherit from
26 `System.Net.WebResponse`.

28 **Usage**

29 Use this property to determine the URI that originated the response.

31 **Exceptions**

Exception	Condition
System.NotSupportedException	This property is not implemented in the derived class.

- 1
- 2