

System.Net.WebHeaderCollection Class

```
[ILASM]
.class public serializable WebHeaderCollection extends
System.Collections.Specialized.NameValueCollection
[C#]
public class WebHeaderCollection: NameValueCollection
```

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)

Type Attributes:

- DefaultMemberAttribute("Item") [Note: This attribute requires the RuntimeInfrastructure library.]

Implements:

- System.Collections.ICollection
- System.Collections.IEnumerable

Summary

Contains protocol headers associated with a **System.Net.WebRequest** or **System.Net.WebResponse** instance.

Inherits From: System.Collections.Specialized.NameValueCollection

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

This class is generally accessed through **System.Net.WebRequest.Headers** or **System.Net.WebResponse.Headers**.

Certain protocol headers are protected and cannot be set directly in a **System.Net.WebHeaderCollection** instance. These headers can only

1 be set through provided property accessors or by the system. The
2 protected headers are:

- 3 • Accept
- 4 • Connection
- 5 • Content-Length
- 6 • Content-Type
- 7 • Date
- 8 • Expect
- 9 • Host
- 10 • If-Modified-Since
- 11 • Range
- 12 • Referer
- 13 • Transfer-Encoding
- 14 • UserAgent
- 15

1 WebHeaderCollection() Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor()  
4 [C#]  
5 public WebHeaderCollection()
```

6 Summary

7 Constructs a new instance of the **System.Net.WebHeaderCollection**
8 class.

9

1 WebHeaderCollection.Add(System.String, 2 System.String) Method

```
3 [ILASM]  
4 .method public hidebysig virtual void Add(string name,  
5 string value)  
6 [C#]  
7 public override void Add(string name, string value)
```

8 Summary

9 Inserts a new header with the specified name and value into the
10 collection.

11 Parameters

12
13

Parameter	Description
<i>name</i>	A System.String that contains the name of the header to add to the collection.
<i>value</i>	A System.String that contains the content of the header.

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15

15 Description

16 This method inserts a new header into the list of header name/value
17 pairs.

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If the header specified in *name* is already present, *value* is concatenated with the existing value.

22
23

[Note: This method overrides **System.Collections.Specialized.NameValueCollection.Add.**]

24 Exceptions

25
26

Exception	Condition
System.ArgumentException	<i>name</i> is null or System.String.Empty , or contains invalid characters. -or- <i>name</i> is a protected header that can only be set with a property accessor or by the system. -or-

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	<i>value</i> contains invalid characters.
--	---

1 WebHeaderCollection.Add(System.String) 2 Method

```
3 [ILASM]  
4 .method public hidebysig instance void Add(string header)  
5 [C#]  
6 public void Add(string header)
```

7 Summary

8 Inserts the specified header into the collection.

9 Parameters

10
11

Parameter	Description
<i>header</i>	A System.String containing the header to add, with the name and value separated by a colon.

12
13

13 Description

14 This method inserts a new header into the list of header name/value
15 pairs. *header* is required to be specified in the format `name:value`.

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18

If the header specified in `name` is already present in the collection,
value is concatenated with the existing value.

19 Exceptions

20
21

Exception	Condition
System.ArgumentNullException	<i>header</i> is null or System.String.Empty .
System.ArgumentException	<i>header</i> does not contain a colon (:) character. -or- name is System.String.Empty , or contains invalid characters.
	-or- <i>header</i> is a protected header that can only be set with a property accessor or by the system.
	-or-

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	value contains invalid characters.
--	------------------------------------

1 WebHeaderCollection.AddWithoutValidate 2 (System.String, System.String) Method

```
3 [ILASM]  
4 .method family hidebysig instance void  
5 AddWithoutValidate(string headerName, string headerValue)  
  
6 [C#]  
7 protected void AddWithoutValidate(string headerName, string  
8 headerValue)
```

9 Summary

10 Inserts a header into the current instance without checking whether
11 the header is on the restricted header list.

12 Parameters

13
14

Parameter	Description
<i>headerName</i>	A System.String that contains the name of the header to add to the collection.
<i>headerValue</i>	A System.String that contains the content of the header.

15

16 Description

17 This method adds a header to the collection without checking whether
18 the header is on the restricted header list.

19

20 [Note: When subclassing **System.Net.WebHeaderCollection**, use
21 the **System.Net.WebHeaderCollection.AddWithoutValidate**
22 method to add headers that are normally exposed through property
23 accessors.]

24 Exceptions

25

26

Exception	Condition
System.ArgumentException	<i>headerName</i> is null or System.String.Empty , or contains invalid characters. -or- <i>headerValue</i> contains invalid characters.

27

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1 WebHeaderCollection.GetValues(System.S 2 tring) Method

```
3 [ILASM]  
4 .method public hidebysig virtual class System.String[]  
5 GetValues(string header)  
  
6 [C#]  
7 public override string[] GetValues(string header)
```

8 Summary

9 Returns the values stored in the specified protocol header.

10 Parameters

11
12

Parameter	Description
<i>header</i>	A System.String containing the protocol header name whose values are returned.

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14
15

Return Value

16 An array of **System.String** objects that contain the values of the
17 protocol header named *header* in the current instance. If *header* is not
18 found in the current instance, returns **null**.

19 Description

20 [Note: This method overrides
21 **System.Collections.Specialized.NameValueCollection.GetValues**.
22]

23 Example

24

25 This example demonstrates the
26 **System.Net.WebHeaderCollection.GetValues** method.

27
28

```
[C#]  
  
29 using System;  
30 using System.Net;  
31  
32 class GetValuesExample  
33 {  
34     public static void Main()  
35
```

```
1      {
2          Uri contosoUri = new Uri("http://www.contoso.com");
3          HttpWebRequest httpContoso =
4              (HttpWebRequest)WebRequest.Create(contosoUri);
5
6          httpContoso.SendChunked=true;
7          httpContoso.TransferEncoding="compress";
8          httpContoso.TransferEncoding="gzip";
9
10         WebHeaderCollection webColl = httpContoso.Headers;
11         String[] sAry = webColl.GetValues("Transfer-
12 Encoding");
13
14         Console.WriteLine("Transfer-Encoding:");
15         foreach(string s in sAry)
16             Console.WriteLine("{0}", s);
17     }
18 }
```

19 The output is
20
21 Transfer-Encoding:
22
23 compress
24
25 gzip

26

1 WebHeaderCollection.IsRestricted(System 2 .String) Method

```
3 [ILASM]  
4 .method public hidebysig static bool IsRestricted(string  
5 headerName)  
  
6 [C#]  
7 public static bool IsRestricted(string headerName)
```

8 Summary

9 Returns a **System.Boolean** value that indicates whether the specified
10 HTTP header can be set.

11 Parameters

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13

Parameter	Description
<i>headerName</i>	A System.String containing the header to test.

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15
16

15 Return Value

17 **true** if the header is protected; otherwise **false**.

18 Description

19 This method returns **true** to indicate that a header is protected.
20 Protected headers can only be set through provided property accessors
21 or by the system. They cannot be set directly in the current instance.

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23

The protected headers are:

- 24 • Accept
- 25 • Connection
- 26 • Content-Length
- 27 • Content-Type
- 28 • Date
- 29 • Expect
- 30 • Host

- 1 • If-Modified-Since
- 2 • Range
- 3 • Referer
- 4 • Transfer-Encoding
- 5 • UserAgent

6 **Exceptions**

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Exception	Condition
System.ArgumentNullException	<i>headerName</i> is null or System.String.Empty .
System.ArgumentException	<i>headerName</i> contains invalid characters.

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1 WebHeaderCollection.Remove(System.String) Method

```
3 [ILASM]  
4 .method public hidebysig virtual void Remove(string name)  
5  
6 [C#]  
7 public override void Remove(string name)
```

7 Summary

8 Removes the specified header from the current instance.

9 Parameters

10
11

Parameter	Description
<i>name</i>	A System.String that contains the name of the header to remove from the current instance.

12
13

13 Description

14 This method deletes the specified header from the current instance. If
15 the same header was added multiple times with
16 **System.Net.WebHeaderCollection.Add**, a single call to
17 **System.Net.WebHeaderCollection.Remove** deletes all of the
18 headers.

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[Note: This method overrides **System.Collections.Specialized.NameValueCollection.Remove**.]

22 Exceptions

23
24

Exception	Condition
System.ArgumentNullException	<i>name</i> is null or System.String.Empty .
System.ArgumentException	<i>name</i> contains invalid characters.
	-or- <i>name</i> is a protected header that can only be set with a property accessor or by the system.

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1 WebHeaderCollection.Set(System.String, 2 System.String) Method

```
3 [ILASM]  
4 .method public hidebysig virtual void Set(string name,  
5 string value)  
6  
7 [C#]  
8 public override void Set(string name, string value)
```

8 Summary

9 Sets the specified header to the specified value.

10 Parameters

11
12

Parameter	Description
<i>name</i>	A System.String that contains the name of the header to set.
<i>value</i>	A System.String that contains the content of the header to set.

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14

14 Description

15 The **System.Net.WebHeaderCollection.Set** method inserts a new
16 header into the list of header name/value pairs.

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If the header specified in *name* is already present, *value* replaces the existing value.

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21
22

[Note: This method overrides **System.Collections.Specialized.NameValueCollection.Set**.]

23 Exceptions

24
25

Exception	Condition
System.ArgumentNullException	<i>name</i> is null or System.String.Empty .
System.ArgumentException	<i>name</i> contains invalid characters.
	-or-
	<i>name</i> is a protected header that can only be set with a property accessor or by the system.
	-or-

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	<i>value</i> contains invalid characters.
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