

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

- Accept

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

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` class.

8

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

```
[ILAsm]  
.method public hidebysig virtual void Add(string name, string value)  
  
[C#]  
public override void Add(string name, string value)
```

Summary

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

Parameters

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.

Description

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

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

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

Exceptions

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-

	<i>value</i> contains invalid characters.
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WebHeaderCollection.Add(System.String) Method

```
[ILAsm]  
.method public hidebysig instance void Add(string header)  
  
[C#]  
public void Add(string header)
```

Summary

Inserts the specified header into the collection.

Parameters

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

Description

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

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

Exceptions

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

	-or- value contains invalid characters.
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WebHeaderCollection.AddWithoutValidate(System.String, System.String) Method

```
[ILAsm]  
.method family hidebysig instance void AddWithoutValidate(string  
headerName, string headerValue)  
  
[C#]  
protected void AddWithoutValidate(string headerName, string headerValue)
```

Summary

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

Parameters

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.

Description

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

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

Exceptions

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

	<i>headerValue</i> contains invalid characters.
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WebHeaderCollection.GetValues(System.String) Method

```
[ILAsm]  
.method public hidebysig virtual string[] GetValues(string header)  
  
[C#]  
public override string[] GetValues(string header)
```

Summary

Returns the values stored in the specified protocol header.

Parameters

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

Return Value

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

Description

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

Example

This example demonstrates the System.Net.WebHeaderCollection.GetValues method.

```
[C#]  
  
using System;  
using System.Net;  
  
class GetValuesExample  
{  
    public static void Main()  
    {
```

```
1      Uri contosoUri = new Uri("http://www.contoso.com");
2      HttpWebRequest httpContoso =
3          (HttpWebRequest)WebRequest.Create(contosoUri);
4
5      httpContoso.SendChunked=true;
6      httpContoso.TransferEncoding="compress";
7      httpContoso.TransferEncoding="gzip";
8
9      WebHeaderCollection webColl = httpContoso.Headers;
10     String[] sAry = webColl.GetValues("Transfer-Encoding");
11
12     Console.WriteLine("Transfer-Encoding:");
13     foreach(string s in sAry)
14         Console.WriteLine("{0}", s);
15     }
16 }
17 The output is
18
19 Transfer-Encoding:
20
21 compress
22
23 gzip
24
```

WebHeaderCollection.IsRestricted(System.String) Method

```
[ILAsm]  
.method public hidebysig static bool IsRestricted(string headerName)  
  
[C#]  
public static bool IsRestricted(string headerName)
```

Summary

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

Parameters

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

Return Value

`true` if the header is protected; otherwise `false`.

Description

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

The protected headers are:

- Accept
- Connection
- Content-Length
- Content-Type
- Date
- Expect
- Host

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

6 Exceptions

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

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WebHeaderCollection.Remove(System.String) Method

```
[ILAsm]  
.method public hidebysig virtual void Remove(string name)  
  
[C#]  
public override void Remove(string name)
```

Summary

Removes the specified header from the current instance.

Parameters

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

Description

This method deletes the specified header from the current instance. If multiple values were added to the same header using System.Net.WebHeaderCollection.Add, a single call to System.Net.WebHeaderCollection.Remove deletes all of the values.

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

Exceptions

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

```
[ILAsm]  
.method public hidebysig virtual void Set(string name, string value)  
  
[C#]  
public override void Set(string name, string value)
```

Summary

Sets the specified header to the specified value.

Parameters

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.

Description

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

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

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

Exceptions

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