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 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

WebHeaderCollection() Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor()

[C#]
public WebHeaderCollection()
```

Summary

Constructs a new instance of the `System.Net.WebHeaderCollection` class.

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

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

[C#]
public override void Add(string name, string value)
```

7 **Summary**

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

9 **Parameters**

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

10

11 **Description**

12   This method inserts a new header into the list of header name/value pairs.
13
14   If the header specified in *name* is already present, *value* is concatenated with the
15   existing value.
16
17   [*Note:* This method overrides
18   System.Collections.Specialized.NameValueCollection.Add.]
19
20

21 **Exceptions**

Exception	Condition
System.ArgumentException	*name* is null or System.String.Empty, or contains invalid characters. -or- *name* 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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1 WebHeaderCollection.Add(System.String)
2 Method

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

[C#]
public void Add(string header)
```

3
4

5
6

7 **Summary**

8   Inserts the specified header into the collection.

9 **Parameters**

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

10
11 **Description**

12   This method inserts a new header into the list of header name/value pairs. *header* is
13   required to be specified in the format `name:value`.
14
15   If the header specified in `name` is already present in the collection, `value` is concatenated
16   with the existing value.

17 **Exceptions**

Exception	Condition
System.ArgumentNullException	*header* is `null` or `System.String.Empty`.
System.ArgumentException	*header* does not contain a colon (:) character. -or- `name` is `System.String.Empty`, or contains invalid characters. -or- *header* 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
headerName	A `System.String` that contains the name of the header to add to the collection.
headerValue	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	*headerName* is `null` or `System.String.Empty`, or contains invalid characters. -or-

	headerValue 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
header	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()
    {
```

```
Uri contosoUri = new Uri("http://www.contoso.com");
HttpWebRequest httpContoso =
    (HttpWebRequest)WebRequest.Create(contosoUri);

httpContoso.SendChunked=true;
httpContoso.TransferEncoding="compress";
httpContoso.TransferEncoding="gzip";

WebHeaderCollection webColl = httpContoso.Headers;
String[] sAry = webColl.GetValues("Transfer-Encoding");

Console.WriteLine("Transfer-Encoding:");
foreach(string s in sAry)
    Console.WriteLine("{0}", s);
    }
}
```

The output is

Transfer-Encoding:

compress

gzip

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
headerName	A `System.String` 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	*headerName* is `null` or `System.String.Empty`.
System.ArgumentException	*headerName* contains invalid characters.

7

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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)
```

8 **Summary**

9 Removes the specified header from the current instance.

10 **Parameters**

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

11

12 **Description**

13 This method deletes the specified header from the current instance. If multiple values
14 were added to the same header using System.Net.WebHeaderCollection.Add, a single
15 call to System.Net.WebHeaderCollection.Remove deletes all of the values.
16
17 [*Note:* This method overrides
18 System.Collections.Specialized.NameValueCollection.Remove.]
19
20

21 **Exceptions**

Exception	Condition
System.ArgumentNullException	*name* is null or System.String.Empty.
System.ArgumentException	*name* contains invalid characters. -or- *name* 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, string value)

5  [C#]
6  public override void Set(string name, string value)
```

7 **Summary**

8   Sets the specified header to the specified value.

9 **Parameters**

Parameter	Description
name	A `System.String` that contains the name of the header to set.
value	A `System.String` that contains the content of the header to set.

10
11 **Description**

12   The `System.Net.WebHeaderCollection.Set` method inserts a new header into the list
13   of header name/value pairs.
14
15   If the header specified in *name* is already present, *value* replaces the existing value.
16
17   [*Note:* This method overrides
18   `System.Collections.Specialized.NameValueCollection.Set`.]
19
20

21 **Exceptions**

Exception	Condition
System.ArgumentNullException	*name* is `null` or `System.String.Empty`.
System.ArgumentException	*name* contains invalid characters. -or- *name* 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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