

System.Uri Class

```
[ILASM]
.class public serializable Uri extends
System.MarshalByRefObject

[C#]
public class Uri: MarshalByRefObject
```

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)

Summary

Provides an object representation of a uniform resource identifier (URI) as defined by IETF RFC 2396.

Inherits From: System.MarshalByRefObject

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:* A Uniform Resource Identifier (URI) is a compact string of characters used to identify a resource located on a computer. A resource can be anything that has identity. Examples of resources that may be accessed using a URI include an electronic document, an image, a web service, and a collection of other resources. A URI is represented as a sequence of characters. While the exact format of a URI is determined by the protocol used to access the resource, many URI consist of four major components:

`<scheme>://<authority><path>?<query>`

Scheme - Indicates a protocol used to access the resource.

Authority - Indicates the naming authority (server or registry) that governs the namespace defined by the remainder of the URI. The authority component is composed of *userinfo*, *host* and *port* subcomponents in the form `<userinfo>@<host>:<port>`. Only the

1 *host* subcomponent is required to be present in the *Authority*
2 component. Authority information is stored in the
3 **System.Uri.Authority** property.

4
5 *Path* - Identifies the resource within the scope of the scheme and, if
6 present, the authority. This information is stored in the
7 **System.Uri.AbsolutePath**, **System.Uri.PathAndQuery**, and
8 **System.Uri.LocalPath** properties.

9
10 *Query* - Parameter information that is passed to the executable script
11 identified by the URI. The query, if present, is the last element in a
12 URI and begins with a "?". This information is stored in the
13 **System.Uri.Query** property.

14
15 *Userinfo* - [Subcomponent of *Authority*] Consists of a user name and,
16 optionally, scheme-specific authorization information used to access
17 *Host*. The *userinfo*, if present, is separated from the *Host* component
18 by the "@" character. Note that for some URI schemes, the format of
19 the *userinfo* subcomponent is "username:password". Passing
20 authorization information in this manner is strongly discouraged due to
21 security issues. The *userinfo* information is stored in the
22 **System.Uri.UserInfo** property.

23
24 *Host* - [Subcomponent of *Authority*] The Domain Name system (DNS)
25 name or IP4 address of a machine that provides access to the
26 resource. This information is stored in the **System.Uri.Host** property.

27
28 *Port* - [Subcomponent of *Authority*] The network port number used to
29 connect to the host. If no port number is specified in the URI, most
30 schemes designate protocols that have a default port number. This
31 information is stored in the **System.Uri.Port** property.

32
33 *Fragment* - The fragment is not part of the URI, but is used in
34 conjunction with the URI and is included here for completeness. This
35 component contains resource-specific information that is used after a
36 resource is retrieved. The *fragment*, if present, is separated from the
37 URI by the "#" character. This information is stored in the
38 **System.Uri.Fragment** property.

39
40 URIs include components consisting of or delimited by certain special
41 (reserved) characters that have a special meaning in a URI
42 component. If the reserved meaning is not intended, then the
43 character is required to be escaped in the URI. An escaped character is
44 encoded as a character triplet consisting of the percent character "%"
45 followed by the US-ASCII character code specified as two hexadecimal
46 digits. For example, "%20" is the escaped encoding for the US-ASCII
47 space character. The URI represented by a **System.Uri** instance is
48 always in "escaped" form. The following characters are reserved:

- 49 • Semi-colon (";")
- 50 • Forward slash ("/")

- 1 • Question mark ("?")
- 2 • Colon (":")
- 3 • At-sign ("@")
- 4 • Ampersand ("&")
- 5 • Equal sign ("=")
- 6 • Plus sign ("+")
- 7 • US Dollar sign ("\$")
- 8 • Comma (",")

9 To transform the URI contained in a **System.Uri** instance from an
10 escape encoded URI to a human-readable URI, use the
11 **System.Uri.ToString** method.]

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URIs are stored as canonical URIs in escaped encoding, with all characters with ASCII values greater than 127 replaced with their hexadecimal equivalents. The **System.Uri** constructors do not escape URI strings if the string is a well-formed URI, including a scheme identifier, that contains escape sequences. To put the URI in canonical form, the **System.Uri** constructors perform the following steps.

- 21 • Converts the URI scheme to lower case.
- 22 • Converts the host name to lower case.
- 23 • Removes default and empty port numbers.
- 24 • Simplifies the URI by removing superfluous segments such as
25 "/" and "/test" segments.

26 The **System.Uri** class stores only absolute URIs (for example,
27 "http://www.contoso.com/index.htm"). Relative URIs (for example,
28 "/new/index.htm") are expanded to absolute form using a specified
29 base URI. The **System.Uri.MakeRelative** method converts absolute
30 URIs to relative URIs.

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The **System.Uri** class properties are read-only; to modify a **System.Uri** instance use the **System.UriBuilder** class.

1 Uri(System.String) Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor(string  
4 uriString)  
5 [C#]  
6 public Uri(string uriString)
```

7 Summary

8 Constructs and initializes a new instance of the **System.Uri** class by
9 parsing the specified URI.

10 Parameters

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Parameter	Description
<i>uriString</i>	A System.String containing a URI.

13
14

14 Description

15 This constructor is equivalent to calling the **System.Uri**
16 (**System.String**, **System.Boolean**) constructor, and specifying
17 *uriString* and **false** as the arguments.

18 Exceptions

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Exception	Condition
System.ArgumentNullException	<i>uriString</i> is null .
System.UriFormatException	<i>uriString</i> is a zero length string or contains only spaces. <i>uriString</i> is in an invalid form and cannot be parsed.

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1 Uri(System.String, System.Boolean) 2 Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(string  
5 uriString, bool dontEscape)  
  
6 [C#]  
7 public Uri(string uriString, bool dontEscape)
```

8 Summary

9 Constructs and initializes a new instance of the **System.Uri** class by
10 parsing the specified URI.

11 Parameters

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Parameter	Description
<i>uriString</i>	A System.String containing a URI.
<i>dontEscape</i>	true if the URI in <i>uriString</i> is already escaped; otherwise, false .

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Description

16 This constructor parses the URI, places its components into the
17 appropriate properties, and puts the URI in canonical form. If the
18 specified URI does not contain a scheme component, the URI is parsed
19 using "file" as the scheme.

20 Exceptions

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22

Exception	Condition
System.ArgumentNullException	<i>uriString</i> is null .
System.UriFormatException	<i>uriString</i> is a zero length string or contains only spaces.
	The parsing routine detected a scheme in an invalid form.
	The parser detected more than two consecutive slashes in a URI that does not use the "file" scheme.
	<i>uriString</i> is in an invalid form and cannot be

	parsed.
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Example

4 The following example creates a **System.Uri** instance for the URI
5 "http://www.contoso.com/Hello%20World.htm". Because the URI
6 contains escaped characters, the third parameter, *dontEscape*, is set
7 to **true**.

8
9

[C#]

```
10 using System;  
11  
12 public class UriTest {  
13     public static void Main() {  
14  
15         Uri myUri = new  
16         Uri("http://www.contoso.com/Hello%20World.htm", true);  
17  
18         Console.WriteLine(myUri.ToString());  
19     }  
20 }
```

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The output is

```
http://www.contoso.com/Hello World.htm
```

25

1 Uri(System.Uri, System.String)

2 Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(class  
5 System.Uri baseUri, string relativeUri)  
  
6 [C#]  
7 public Uri(Uri baseUri, string relativeUri)
```

8 Summary

9 Constructs and initializes a new instance of the **System.Uri** class by
10 combining the specified base and relative URIs.

11 Parameters

Parameter	Description
<i>baseUri</i>	A System.Uri containing a base URI.
<i>relativeUri</i>	A System.String containing a relative URI.

14 Description

16 This constructor is equivalent to calling the **System.Uri (System.Uri,**
17 **System.Boolean, System.Boolean)** constructor, and specifying
18 *baseUri*, *relativeUri*, and **false** as the arguments.

19 Exceptions

Exception	Condition
System.UriFormatException	<i>relativeUri</i> is in an invalid form.
System.NullReferenceException	<i>baseUri</i> is null .

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Uri(System.Uri, System.String, System.Boolean) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(class
System.Uri baseUri, string relativeUri, bool dontEscape)

[C#]
public Uri(Uri baseUri, string relativeUri, bool
dontEscape)
```

Summary

Constructs and initializes a new instance of the **System.Uri** class by combining the specified base and relative URIs.

Parameters

Parameter	Description
<i>baseUri</i>	A System.Uri containing the base URI. This parameter can, but is not required to contain a terminating slash ("/") character.
<i>relativeUri</i>	A System.String containing the relative URI to add to the base URI. This parameter can, but is not required to contain a leading slash ("/") character.
<i>dontEscape</i>	true if <i>baseUri</i> and <i>relativeUri</i> are already escaped; otherwise, false .

Description

This constructor compensates for the presence or absence of a terminating slash in *baseUri* and/or a leading slash in *relativeUri* to produce a well-formed URI.

If the relative URI contains a **System.Uri.Scheme** that is the same as the scheme of the base URI and the **System.Uri.SchemeDelimiter** is not present, or the relative URI does not contain a scheme, the new instance is composed of the relative URI (without its scheme component, if any) qualified by the scheme and authority information from the base URI.

If the relative URI contains a **System.Uri.Scheme** followed by the **System.Uri.SchemeDelimiter**, it is treated as an absolute URI and the base URI is ignored. If the relative URI contains a scheme that differs from the scheme of the base URI, the base URI is ignored. If the **System.Uri.SchemeDelimiter** is not present in the relative URI, it is assumed, and the new instance is constructed as though the relative URI were an absolute URI.

1 [Note: When the base URI is ignored, only the components of the
2 relative URI are used to construct the new instance.]

3 Exceptions

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Exception	Condition
System.UriFormatException	<i>relativeUri</i> is in an invalid form.
System.NullReferenceException	<i>baseUri</i> is null .

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Example

9 The following example creates new instances of the **System.Uri** class
10 by combining a **System.Uri** instance representing the base URI and a
11 string containing a relative URI.

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[C#]

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```
using System;

public class UriTest {
    public static void Main() {

        // Typical base and relative URI constructor usage.

        Uri baseUri = new Uri("http://www.contoso.com", true);
        Uri myUri = new Uri(baseUri, "index.htm",true);
        Console.WriteLine("Typical usage: {0}",myUri.ToString());

        // Base and relative URI contain slashes.
        Uri baseUri2 = new Uri("http://www.contoso.com/", true);
        Uri myUri2 = new Uri(baseUri2, "/index.htm",true);
        Console.WriteLine("Slash example: {0}",myUri2.ToString());

        // Relative URI contains a different scheme than the base
        URI.
        Uri baseUri3 = new Uri("http://www.contoso.com/", true);
        Uri myUri3 = new Uri(baseUri3,
"ftp://www.contoso2.com/index.htm",true);
        Console.WriteLine("Different schemes: {0}",
myUri3.ToString());

        // Relative URI contains the same scheme as the base URI.
        // The scheme delimiter is not present in the relative
        URI.
        Uri baseUri4 = new Uri("http://www.contoso.com/", true);
        Uri myUri4 = new Uri(baseUri4,
"http://www.contoso2.com/index.htm",true);
        Console.WriteLine("Same schemes - relative treated as
relative: {0}",myUri4.ToString());
```

```
1
2     // Relative URI contains the same scheme as the base URI.
3     // The scheme delimiter is present in the relative URI.
4     Uri baseUri5 = new Uri("http://www.contoso.com/", true);
5     Uri myUri5 = new Uri(baseUri5,
6     "http://www.contoso2/index.htm",true);
7     Console.WriteLine("Same schemes - relative treated as
8     absolute: {0}",myUri5.ToString());
9
10    }
11  }
12
```

13 The output is

14 Typical usage: <http://www.contoso.com/index.htm>

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Same schemes - relative treated as relative:

<http://www.contoso.com/www.contoso2.com/index.htm>

Same schemes - relative treated as absolute:

<http://www.contoso2/index.htm>

1 Uri.SchemeDelimiter Field

```
2 [ILASM]  
3 .field public static initOnly string SchemeDelimiter  
4 [C#]  
5 public static readonly string SchemeDelimiter
```

6 Summary

7 A **System.String** containing the characters that separate the scheme
8 component from the remainder of a URI.

9 Description

10 This field is read-only. The value of this field is "://".

11

1 Uri.UriSchemeFile Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeFile  
4 [C#]  
5 public static readonly string UriSchemeFile
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI
8 identifies a file.

9 Description

10 This field is read-only. The value of this field is "file".

11

1 Uri.UriSchemeFtp Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeFtp  
4 [C#]  
5 public static readonly string UriSchemeFtp
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 accessed through the File Transfer Protocol (FTP).

9 Description

10 This field is read-only. The value of this field is "ftp".

11

1 Uri.UriSchemeGopher Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeGopher  
4 [C#]  
5 public static readonly string UriSchemeGopher
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 accessed through the Gopher protocol.

9 Description

10 This field is read-only. The value of this field is "gopher".

11

1 Uri.UriSchemeHttp Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeHttp  
4 [C#]  
5 public static readonly string UriSchemeHttp
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 accessed through the Hypertext Transfer Protocol (HTTP).

9 Description

10 This field is read-only. The value of this field is "http".

11

1 Uri.UriSchemeHttps Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeHttps  
4 [C#]  
5 public static readonly string UriSchemeHttps
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 accessed through the Secure Hypertext Transfer Protocol (HTTPS).

9 Description

10 This field is read-only. The value of this field is "https".

11

1 Uri.UriSchemeMailto Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeMailto  
4 [C#]  
5 public static readonly string UriSchemeMailto
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 an email address and is accessed through the Simple Network Mail
9 Protocol (SNMP).

10 Description

11 This field is read-only. The value of this field is "mailto".

12

1 Uri.UriSchemeNews Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeNews  
4 [C#]  
5 public static readonly string UriSchemeNews
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 an Internet news group and is accessed through the Network News
9 Transport Protocol (NNTP).

10 Description

11 This field is read-only. The value of this field is "news".

12

1 Uri.UriSchemeNntp Field

```
2 [ILASM]  
3 .field public static initOnly string UriSchemeNntp  
4 [C#]  
5 public static readonly string UriSchemeNntp
```

6 Summary

7 A **System.String** containing the characters that indicate that a URI is
8 an Internet news group and is accessed through the Network News
9 Transport Protocol (NNTP).

10 Description

11 This field is read-only. The value of this field is "nntp".

12

1 Uri.Canonicalize() Method

```
2 [ILASM]  
3 .method family hidebysig virtual void Canonicalize()  
4 [C#]  
5 protected virtual void Canonicalize()
```

6 Summary

7 Converts the components of the URI represented by the current
8 instance to canonical form.

9 Behaviors

10 This method converts the URI to a format suitable for machine
11 interpretation according to the scheme of the current instance. The
12 conversions are required to preserve all information that could, if
13 removed or altered, change the URI represented by the current
14 instance.

15 Default

16 This method performs the following conversions:

- 17 • Converts file references to the format of the current platform,
18 for example on a Windows system, file://c:/AFile.txt is
19 converted to "file:///c:/AFile.txt".
- 20 • Converts any backslash characters ('\') to forward slashes ('/').
- 21 • Compresses multiple consecutive forward slashes ('/') in the
22 path component to a single forward slash.
- 23 • Compresses any path meta sequences ("/.\" and "/..").

24 How and When to Override

25 Override this method to canonicalize the type derived from
26 **System.Uri**.

27 Usage

28 Applications do not call this method; it is called by constructors after
29 parsing the URI and escaping the components.

30

1 Uri.CheckHostName(System.String)

2 Method

```
3 [ILASM]
4 .method public hidebysig static valuetype
5 System.UriHostNameType CheckHostName(string name)
6 [C#]
7 public static UriHostNameType CheckHostName(string name)
```

8 Summary

9 Returns a value that describes the format of a host name string.

10 Parameters

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12

Parameter	Description
<i>name</i>	A System.String containing the host name to validate.

13
14
15

14 Return Value

16 A **System.UriHostNameType** that indicates the type of the host
17 name. If the type of the host name cannot be determined, or the host
18 name is **null** or a zero-length string, returns
19 **System.UriHostNameType.Unknown**.

20 Example

21

22 The following example demonstrates using the
23 **System.Uri.CheckHostName** method.

24
25

```
[C#]
using System;
public class UriTest {
    public static void Main() {
        Console.WriteLine(Uri.CheckHostName("www.contoso.com"));
    }
}
```

34 The output is

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1 Dns
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1 Uri.CheckSchemeName(System.String)

2 Method

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

8 Summary

9 Returns a **System.Boolean** value indicating whether the specified
10 scheme name is valid.

11 Parameters

12
13

Parameter	Description
<i>schemeName</i>	A System.String containing the scheme name to validate.

14
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16

15 Return Value

17 **true** if the scheme name is valid; otherwise, **false**. If *schemeName* is
18 **null** or is a zero-length string, returns **false**.

19 Description

20 [Note: The scheme name is required to begin with a letter, and contain
21 only letters, digits, and the characters '.', '+' or '-'.]

22

1 Uri.CheckSecurity() Method

```
2 [ILASM]  
3 .method family hidebysig virtual void CheckSecurity()  
4 [C#]  
5 protected virtual void CheckSecurity()
```

6 Summary

7 Checks the current instance for character sequences that can result in
8 unauthorized access to resources, and removes them.

9 Behaviors

10 This method checks for invalid or dangerous character sequences in
11 the components of the current instance, and removes them. The
12 semantics that determine whether a character sequence presents a
13 security risk are determined by the scheme of the current instance.

14 Default

15 The default implementation does nothing.

16 How and When to Override

17 Override this method to provide security checks for types derived from
18 **System.Uri**.

19 Usage

20 Invoke this method on instances of types derived from **System.Uri** to
21 remove any URI content that allows unauthorized access to resources.

22

Uri.Equals(System.Object) Method

```
[ILASM]
.method public hidebysig virtual bool Equals(object
comparand)

[C#]
public override bool Equals(object comparand)
```

Summary

Compares the current instance and the specified object for equality.

Parameters

Parameter	Description
<i>comparand</i>	The System.Uri instance to compare with the current instance. This argument can be a System.String or a System.Uri .

Return Value

true if *comparand* represents the same URI (ignoring any fragment or query information) as the current instance; otherwise, **false**. If *comparand* is **null**, a zero-length string, or is not an instance of **System.String** or **System.Uri**, returns false.

Description

If *comparand* is a **System.String**, it is converted to a **System.Uri** by calling **System.Uri(comparand)**.

The **System.Uri.Scheme**, **System.Uri.Host** and unescaped version of the **System.Uri.AbsolutePath** of the current instance and *comparand* are compared for equality.

If the scheme of the current instance is the **System.Uri.UriSchemeFile** scheme, the absolute paths are compared in accordance with the case sensitivity of the current platform.

[Note: This method overrides **System.Object.Equals.**]

1 Uri.Escape() Method

```
2 [ILASM]  
3 .method family hidebysig virtual void Escape()  
4 [C#]  
5 protected virtual void Escape()
```

6 Summary

7 Converts any unsafe or reserved characters in the
8 **System.Uri.AbsolutePath** component to equivalent escaped
9 hexadecimal sequences.

10 Description

11 Behaviors

12 Converts any unsafe or reserved characters in the
13 **System.Uri.AbsolutePath** component to a character sequence
14 consisting of a "%" followed by the hexadecimal value of the character
15 as described by IETF 2396.

16
17 If the path component of the current instance is **null**, the escaped
18 path is **System.String.Empty**.

19 Default

20 As described above.

21 How and When to Override

22 Override this method to customize the escaping behavior provided by
23 the **System.Uri** type.

24 Usage

25 Applications typically do not call this method; it is intended for use by
26 the constructors.

27
28 [*Note:* For additional information on escaping URI, see section 2 of
29 RFC 2396.]

30

1 Uri.EscapeString(System.String) Method

```
2 [ILASM]  
3 .method family hidebysig static string EscapeString(string  
4 str)  
5 [C#]  
6 protected static string EscapeString(string str)
```

7 Summary

8 Converts a string to its escaped representation.

9 Parameters

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11

Parameter	Description
<i>str</i>	A System.String to convert to its escaped representation.

12

13 Return Value

14

15 A **System.String** containing the escaped representation of *str*.

16 Description

17 The string is escaped in accordance with RFC 2396.

18

1 Uri.FromHex(System.Char) Method

```
2 [ILASM]  
3 .method public hidebysig static int32 FromHex(valuetype  
4 System.Char digit)  
  
5 [C#]  
6 public static int FromHex(char digit)
```

7 Summary

8 Returns the decimal value of a hexadecimal digit.

9 Parameters

10
11

Parameter	Description
<i>digit</i>	The hexadecimal digit (0-9, a-f, A-F) to convert.

12

13 Return Value

14

15 A **System.Int32** containing an integer from 0 - 15 that corresponds to
16 the specified hexadecimal digit.

17 Exceptions

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19

Exception	Condition
System.ArgumentException	<i>digit</i> is not a valid hexadecimal digit (0-9, a-f, A-F).

20

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1 Uri.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 this instance.

11 Description

12 The hash code is generated without the fragment component. For
13 example, the URIs "http://www.contoso.com/index.htm#search" and
14 "http://www.contoso.com/index.htm" produce the same hash code.

15

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

17

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

19

Uri.GetLeftPart(System.UriPartial) Method

```
[ILASM]
.method public hidebysig instance string
GetLeftPart(valuetype System.UriPartial part)

[C#]
public string GetLeftPart(UriPartial part)
```

Summary

Returns the specified portion of the URI represented by the current instance.

Parameters

Parameter	Description
<i>part</i>	A System.UriPartial value that specifies the component to return.

Return Value

A **System.String** containing all components up to the specified portion of the URI, or **System.String.Empty** if the current instance does not contain the component identified by *part*.

Description

The **System.Uri.GetLeftPart** method returns a string containing the URI components starting with the left-most component of the URI and ending with the component specified by *part*. The returned string does not include fragment or query information.

System.Uri.GetLeftPart includes delimiters as follows:

- **System.UriPartial.Scheme** has the scheme delimiter added.
- **System.UriPartial.Authority** does not have the path delimiter added.
- **System.UriPartial.Path** includes any delimiters in the original URI up to the query or fragment delimiter.

Exceptions

Exception	Condition
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System.ArgumentException

The *part* parameter is not a valid **System.UriPartial** value.

Example

The following example demonstrates the **System.Uri.GetLeftPart** method.

[C#]

```
using System;

public class UriTest {
    public static void Main() {
        string[] myUri = {
            "http://www.contoso.com/index.htm",
            "http:www.contoso.com/index.htm#mark",
            "mailto:user@contoso.com?subject=uri",
            "nntp://news.contoso.com/123456@contoso.com"
        };
        foreach (string s in myUri) {
            Uri aUri = new Uri(s);
            Console.WriteLine("URI: {0}", aUri.ToString());
            Console.WriteLine("Scheme:
{0}", aUri.GetLeftPart(UriPartial.Scheme));
            Console.WriteLine("Authority:
{0}", aUri.GetLeftPart(UriPartial.Authority));
            Console.WriteLine("Path:
{0}", aUri.GetLeftPart(UriPartial.Path));
        }
    }
}
```

The output is

URI: http://www.contoso.com/index.htm

Scheme: http://

Authority: http://www.contoso.com

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41

Path: http://www.contoso.com/index.htm

URI: http://www.contoso.com/index.htm#mark

Scheme: http://

Authority: http://www.contoso.com

Path: http://www.contoso.com/index.htm

URI: mailto:user@contoso.com?subject=uri

Scheme: mailto:

Authority:

Path: mailto:user@contoso.com

URI: nntp://news.contoso.com/123456@contoso.com

Scheme: nntp://

Authority: nntp://news.contoso.com

Path: nntp://news.contoso.com/123456@contoso.com

Uri.HexEscape(System.Char) Method

```
[ILASM]
.method public hidebysig static string HexEscape(valuetype
System.Char character)

[C#]
public static string HexEscape(char character)
```

Summary

Converts a specified ASCII character into its escaped hexadecimal equivalent.

Parameters

Parameter	Description
<i>character</i>	A System.Char containing the character to convert to escaped hexadecimal representation.

Return Value

A **System.String** containing the escaped hexadecimal representation of the specified character.

Description

The returned string is in the form "%XX", where X represents a hexadecimal digit (0-9, A-F).

Exceptions

Exception	Condition
System.ArgumentOutOfRangeException	The numerical value of <i>character</i> is greater than 255.

1 Uri.HexUnescape(System.String, 2 System.Int32&) Method

```
3 [ILASM]  
4 .method public hidebysig static valuetype System.Char  
5 HexUnescape(string pattern, class System.Int32& index)  
  
6 [C#]  
7 public static char HexUnescape(string pattern, ref int  
8 index)
```

9 Summary

10 Converts a specified escaped hexadecimal representation of a
11 character to the character.

12 Parameters

13
14

Parameter	Description
<i>pattern</i>	A System.String containing the hexadecimal representation of a character.
<i>index</i>	A System.Int32 containing the location in <i>pattern</i> where the hexadecimal representation of a character begins.

15
16
17

16 Return Value

18 A **System.Char** containing a character. If the character pointed to by
19 *index* is a "%" and there are at least two characters following the "%",
20 and the two characters are valid hexadecimal digits, the hexadecimal
21 digits are converted to **System.Char**. Otherwise, the character at
22 *index* is returned. Valid hexadecimal digits are: 0-9, a-f, A-F.

23
24
25

On return, the value of *index* contains the index of the character following the one returned.

26 Exceptions

27
28

Exception	Condition
System.ArgumentOutOfRangeException	<i>index</i> < 0 or <i>index</i> > the number of characters in <i>pattern</i> .

29
30
31

1 Uri.IsBadFileSystemCharacter(System.Ch 2 ar) Method

```
3 [ILASM]  
4 .method family hidebysig virtual bool  
5 IsBadFileSystemCharacter(valuetype System.Char character)  
  
6 [C#]  
7 protected virtual bool IsBadFileSystemCharacter(char  
8 character)
```

9 Summary

10 Returns a **System.Boolean** value that indicates whether the specified
11 character would be an invalid character if used in a file system name.

12 Parameters

13
14

Parameter	Description
<i>character</i>	A System.Char containing the character to check.

15
16
17

16 Return Value

18 **true** if the specified character is not acceptable for use in a file system
19 name; otherwise, **false**.
20
21 The value returned by this method is implementation-defined.

22 Behaviors

23 This method returns **false** if the specified character cannot be used in
24 a URI that identifies a file, as defined by the current file system on the
25 current platform.

26 Default

27 As described above.

28 How and When to Override

29 Override this method to provide a check for invalid characters as
30 defined by the current file system on the current platform.

31 Usage

1 Use this method to determine if a character can be used in a file name.

2

1 Uri.IsExcludedCharacter(System.Char)

2 Method

```
3 [ILASM]  
4 .method family hidebysig static bool  
5 IsExcludedCharacter(valuetype System.Char character)  
  
6 [C#]  
7 protected static bool IsExcludedCharacter(char character)
```

8 Summary

9 Returns a **System.Boolean** value that indicates whether the specified
10 character is excluded from use or is unwise in URIs, as defined by IETF
11 RFC 2396.

12 Parameters

13
14

Parameter	Description
<i>character</i>	A System.Char containing the character to check.

15
16
17

16 Return Value

18 **true** if the specified character is required to be escaped; otherwise,
19 **false**.

20 Description

21 This method returns **true** for the following characters:

Character(s)	Description
<i>character</i> < 0x0020	Any character with the ASCII value less than hexadecimal 0x20 (32).
<i>character</i> < 0x007f	Any character with the ASCII value greater than hexadecimal 0x7f (127).
<	Less than sign.
>	Greater than sign.
#	Number sign (crosshatch, pound sign).
%	Percent.
"	Quotation mark.
{	Left curly brace.
}	Right curly brace.

	Pipe sign (vertical bar).
\	Backward slash.
^	Circumflex (caret).
[Left square bracket.
]	Right square bracket.
`	Grave accent.

1

2

1 Uri.IsHexDigit(System.Char) Method

```
2 [ILASM]  
3 .method public hidebysig static bool IsHexDigit(valuetype  
4 System.Char character)  
  
5 [C#]  
6 public static bool IsHexDigit(char character)
```

7 Summary

8 Returns a **System.Boolean** value that indicates whether the specified
9 character is a valid hexadecimal digit.

10 Parameters

11
12

Parameter	Description
<i>character</i>	A System.Char containing the character to validate.

13
14
15

Return Value

16 **true** if the character is a valid hexadecimal digit (0-9, A-F, a-f);
17 otherwise **false**.

18

1 Uri.IsHexEncoding(System.String, 2 System.Int32) Method

```
3 [ILASM]  
4 .method public hidebysig static bool IsHexEncoding(string  
5 pattern, int32 index)  
  
6 [C#]  
7 public static bool IsHexEncoding(string pattern, int index)
```

8 Summary

9 Returns a **System.Boolean** value that indicates whether a substring
10 of the specified string is in escaped hexadecimal encoding format ("%"
11 followed by two hexadecimal characters).

12 Parameters

13
14

Parameter	Description
<i>pattern</i>	The System.String to check.
<i>index</i>	A System.Int32 containing the location in <i>pattern</i> to check for hex encoding.

15
16
17

16 Return Value

18 **true** if the specified location in *pattern* contains a substring in escaped
19 hexadecimal encoding format; otherwise, **false**.

20 Description

21 The **System.Uri.IsHexEncoding** method checks for hexadecimal
22 digits case-insensitively.

23

1 Uri.IsReservedCharacter(System.Char) 2 Method

```
3 [ILASM]  
4 .method family hidebysig virtual bool  
5 IsReservedCharacter(valuetype System.Char character)  
  
6 [C#]  
7 protected virtual bool IsReservedCharacter(char character)
```

8 Summary

9 Returns a **System.Boolean** value that indicates whether a character
10 is part of the URI reserved set.

11 Return Value

12

13 **true** if *character* is a URI reserved character as defined by IETF RFC
14 2396; otherwise, **false**.

15 Description

16 The following characters are reserved for the use in URI:

Character	Description
;	Semi-colon.
/	Forward slash.
:	Colon.
@	At sign (commercial at).
&	Ampersand.
=	Equals sign.
+	Plus sign.
\$	US Dollar sign.
,	Comma.

17

18 Behaviors

19 As described above.

20 How and When to Override

21 Override this method to customize the escaping behavior provided by
22 the **System.Uri** type.

1 **Usage**

2 Use this method to determine if a character is reserved.

3

Uri.MakeRelative(System.Uri) Method

```
[ILASM]
.method public hidebysig instance string MakeRelative(class
System.Uri toUri)
[C#]
public string MakeRelative(Uri toUri)
```

Summary

Returns the specified **System.Uri** as a relative URI.

Parameters

Parameter	Description
<i>toUri</i>	The URI to compare to the current URI.

Return Value

A **System.String** with the difference between the current instance and *toUri* if the two URIs are the same except for the path information. If the two URIs differ in more than the **System.Uri.AbsolutePath**, this method returns a **System.String** with the absolute URI of *toUri*.

Example

The following example demonstrates the **System.Uri.MakeRelative** method.

```
[C#]
using System;
public class UriTest {
    public static void Main() {
        Uri myUri = new
Uri("http://www.contoso.com/Hello%20World.htm", true);
        Console.WriteLine(myUri.ToString());
        Console.WriteLine(myUri.MakeRelative(new Uri
("http://www.contoso.com/index.htm")));
    }
}
```

The output is

1 `http://www.contoso.com/Hello World.htm`

2

3

4 `index.htm`

5

6

1 Uri.Parse() Method

```
2 [ILASM]  
3 .method family hidebysig virtual void Parse()  
4 [C#]  
5 protected virtual void Parse()
```

6 Summary

7 Parses the URI into its constituent components.

8 Behaviors

9 This method parses the **System.Uri.AbsolutePath** property,
10 separates it into various URI components, and stores the components
11 in the appropriate **System.Uri** properties.

12 Default

13 This method parses path components as defined in IETF RFC 2396.

14 How and When to Override

15 Override this method to provide parsing for URIs in formats that are
16 not defined in IETF RFC 2396.

17 Usage

18 Applications typically do not call this method; it is intended for use by
19 the constructors.

20 Exceptions

21
22

Exception	Condition
System.UriFormatException	The scheme of the URI is in an invalid format.
	The URI is in an invalid form and cannot be parsed.

23
24
25

1 Uri.ToString() Method

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

6 Summary

7 Returns the unescaped, canonical form of the URI information used to
8 construct the current instance.

9 Return Value

10

11 A **System.String** containing the unescaped, canonical form of the URI
12 represented by the current instance.

13 Description

14 The string returned by this method includes the **System.Uri.Query**
15 and **System.Uri.Fragment** components.

16

17 [*Note:* This method overrides **System.Object.ToString.**]

18

1 Uri.Unescape(System.String) Method

```
2 [ILASM]  
3 .method family hidebysig virtual string Unescape(string  
4 path)  
5 [C#]  
6 protected virtual string Unescape(string path)
```

7 Summary

8 Converts escape sequences in the specified **System.String** into their
9 unescaped equivalents.

10 Parameters

11
12

Parameter	Description
<i>path</i>	The System.String to unescape.

13
14
15

14 Return Value

16 A **System.String** containing *path* with its escaped characters
17 converted to their unescaped equivalents. If *path* is **null** or a zero-
18 length string, returns **System.String.Empty**.

19 Description

20 [Note: Escape sequences can be hex-encoded reserved characters (for
21 example "%40") or hex-encoded UTF-8 sequences (for example
22 "%C4%D2").]

23

1 Uri.AbsolutePath Property

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

7 Summary

8 Gets the absolute path of the resource identified by the current
9 instance.

10 Property Value

11

12 A **System.String** containing the absolute path to the resource.

13 Description

14 This property is read-only.

15

16 The **System.Uri.AbsolutePath** property contains the path to the
17 resource identified by the current instance. The
18 **System.Uri.AbsolutePath** property always returns at least a slash
19 ('/').

20

21 If, when the current instance was constructed, the URI was already
22 escaped or the constructor's *dontEscape* parameter was set to **false**,
23 the value returned by this property is escaped.

24

25 [*Note:* The path information does not include the scheme, host name,
26 query, or fragment components of the URI.]

27 Example

28

29 The following example outputs the absolute path of a URI.

30

31

```
32 using System;
33
34 public class UriTest {
35     public static void Main() {
36         Uri myUri = new Uri
37         ("http://www.contoso.com/URI>Hello%20World.htm?date=today",
38         true);
39         Console.WriteLine(myUri.AbsolutePath);
40     }
41 }
```

1

2

3

4

5

The output is

/URI/Hello%20World.htm

6

1 Uri.AbsoluteUri Property

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

7 Summary

8 Gets the absolute URI of the resource identified by the current
9 instance in canonical form.

10 Property Value

11

12 A **System.String** containing the URI used to construct the current
13 instance, in canonical format.

14 Description

15 This property is read-only.

16

17 The **System.Uri.AbsoluteUri** property includes the entire URI stored
18 in the current **System.Uri** instance, including any fragment or query
19 information. If, when the current instance was constructed, the URI
20 was already escaped or the constructor's *dontEscape* parameter was
21 set to **false**, the value returned by this property is escaped.

22

1 Uri.Authority Property

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

7 Summary

8 Gets the authority component of the URI used to construct the current
9 instance.

10 Property Value

11

12 A **System.String** containing the authority component of the current
13 instance. The value returned by this property is composed of the
14 values returned by the **System.Uri.Host** and **System.Uri.Port**
15 properties.

16 Description

17 This property is read-only.

18

19 The **System.Uri.Authority** property returns the **System.Uri.Host**
20 and **System.Uri.Port** information specified in the URI used to
21 construct the current instance. The value of this property includes the
22 port information only if the URI specified a port that is not the default
23 for the current scheme. When port information is included in the value
24 returned by this property, the host and port are separated by a colon
25 (":").

26

1 Uri.Fragment Property

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

7 Summary

8 Gets the fragment component of the URI used to construct the current
9 instance.

10 Property Value

12 A **System.String** containing any fragment information contained in
13 the URI used to construct the current instance.

14 Description

15 This property is read-only.

16
17 The **System.Uri.Fragment** property gets any text following a
18 fragment marker ('#') in the URI, including the fragment marker itself.
19 If, when the current instance was constructed, the URI was already
20 escaped or the constructor's *dontEscape* parameter was set to **false**,
21 the value returned by this property is escaped.
22

23 [*Note:* The **System.Uri.Fragment** property is not considered in a
24 **System.Uri.Equals** comparison.]

25 Example

27 The following example demonstrates the use of the
28 **System.Uri.Fragment** property.

```
29 [C#]
30
31 using System;
32
33 public class UriTest {
34     public static void Main() {
35
36         Uri baseUri = new Uri("http://www.contoso.com/");
37         Uri myUri = new Uri(baseUri, "index.htm#main");
38
39         Console.WriteLine(myUri.Fragment);
40     }
41 }
```

```
1 The output is
2
3 #main
4
```

```
5
```

1 Uri.Host Property

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

7 Summary

8 Gets the host component of the URI used to construct the current
9 instance.

10 Property Value

11

12 A **System.String** containing the DNS host name or IP address of the
13 host server. If the host information was not specified to the
14 constructor, the value of this property is **System.String.Empty**.

15 Description

16 This property is read-only.

17

18 If the host information is an IP6 address, the information is enclosed in
19 square brackets ("[" and "]").

20 Example

21

22 The following example demonstrates using the **System.Uri.Host**
23 property.

24

25

```
[C#]
26 using System;
27
28 public class UriTest {
29     public static void Main() {
30
31         Uri baseUri = new Uri("http://www.contoso.com:8080/");
32         Uri myUri = new Uri(baseUri, "shownew.htm?date=today");
33
34         Console.WriteLine(myUri.Host);
35     }
36 }
```

37 The output is

38

1 www.contoso.com
2
3

1 Uri.HostNameType Property

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

8 Summary

9 Gets the format of the host address in the URI used to construct the
10 current instance.

11 Property Value

12

13 A **System.UriHostNameType** that indicates the format of the host
14 address information in the current instance.

15 Description

16 This property is read-only.

17

18 If **System.Uri.Host** is **null**, the value of this property is
19 **System.UriHostNameType.Unknown**.

20

1 Uri.IsDefaultPort Property

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

7 Summary

8 Gets a **System.Boolean** value indicating whether the
9 **System.Uri.Port** value of the current instance is the default port for
10 the scheme of the current instance.

11 Property Value

12

13 **true** if the value in the **System.Uri.Port** property is the default port
14 for the **System.Uri.Scheme**; otherwise, **false**.

15 Description

16 This property is read-only.

17

18 [*Note:* For a list of default port values, see the **System.Uri.Port**
19 property.]

20

1 Uri.IsFile Property

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

7 Summary

8 Gets a **System.Boolean** value indicating whether the current instance
9 identifies a file.

10 Property Value

11

12 **true** if the resource identified by the current **System.Uri** is a file;
13 otherwise, **false**.

14 Description

15 This property is read-only.

16

17 The **System.Uri.IsFile** property is **true** when the
18 **System.Uri.Scheme** property equals **System.Uri.UriSchemeFile**.

19

1 Uri.IsLoopback Property

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

7 Summary

8 Gets a **System.Boolean** value indicating whether the host information
9 of the current instance is the current computer.

10 Property Value

11

12 **true** if the host of the current instance is the reserved hostname
13 "localhost" or the loop-back IP address (127.0.0.1); otherwise, **false**.

14 Description

15 This property is read-only.

16 Example

17

18 The following example demonstrates the **System.Uri.IsLoopback**
19 property.

20

21

```
22 using System;
23
24 public class UriTest {
25     public static void Main() {
26         Uri myUri = new Uri("http://127.0.0.1/index.htm", true);
27         Console.WriteLine("{0} is loopback? {1}",
28             myUri.ToString(), myUri.IsLoopback);
29
30         myUri = new Uri("http://localhost/index.htm", true);
31         Console.WriteLine("{0} is loopback? {1}",
32             myUri.ToString(), myUri.IsLoopback);
33     }
34 }
35
```

36 The output is

37

38

http://127.0.0.1/index.htm is loopback? True

1
2
3

http://localhost/index.htm is loopback? True

1 Uri.LocalPath Property

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

7 Summary

8 Gets the local operating-system representation of the resource
9 identified by the current instance.

10 Property Value

11

12 A **System.String** containing the local representation of the resource
13 identified by the current instance.

14 Description

15 This property is read-only.

16

17 If the **System.Uri.Scheme** of the current instance is not equal to
18 **System.Uri.UriSchemeFile**, this property returns the same value as
19 **System.Uri.AbsolutePath**.

20

21 If the scheme is equal to **System.Uri.UriSchemeFile**, this property
22 returns an unescaped platform-dependent local representation of the
23 file name.

24

1 Uri.PathAndQuery Property

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

7 Summary

8 Gets the **System.Uri.AbsolutePath** and **System.Uri.Query**
9 components of the URI used to construct the current instance.

10 Property Value

11

12 A **System.String** that contains the values of the
13 **System.Uri.AbsolutePath** and **System.Uri.Query** properties.

14 Description

15 This property is read-only.

16 Example

17

18 The following example uses the **System.Uri.PathAndQuery** property
19 to extract the path and query information from a **System.Uri**
20 instance.

21

22

```
23 using System;
24
25 public class UriTest {
26     public static void Main() {
27
28         Uri baseUri = new Uri("http://www.contoso.com/");
29         Uri myUri = new Uri(baseUri,
30 "catalog/shownew.htm?date=today");
31
32         Console.WriteLine(myUri.PathAndQuery);
33     }
34 }
```

35 The output is

36

1 /catalog/shownew.htm?date=today
2
3

1 Uri.Port Property

```
2 [ILASM]  
3 .property int32 Port { public hidebysig specialname  
4 instance int32 get_Port() }  
  
5 [C#]  
6 public int Port { get; }
```

7 Summary

8 Gets the port number used to connect to the **System.Uri.Host**
9 referenced by the current instance.

10 Property Value

11

12 A **System.Int32** containing the port number, or -1 if no port is used
13 by the URI **System.Uri.Scheme**. If no port was specified as part of
14 the URI used to construct the current instance, the **System.Uri.Port**
15 property returns the default port for the URI scheme.

16 Description

17 This property is read-only.

18

19 [Note: The following table lists the default port number for each
20 supported scheme.

Scheme	Port
file	-1
ftp	21
gopher	70
http	80
https	43
mailto	25
news	119
nntp	119

21

22]

23

1 Uri.Query Property

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

7 Summary

8 Gets the query component of the URI used to construct the current
9 instance.

10 Property Value

11

12 A **System.String** containing the query information included in the
13 specified URI, or **System.String.Empty**.

14 Description

15 This property is read-only.

16

17 If, when the current instance was constructed, the URI was already
18 escaped or the constructor's *dontEscape* parameter was set to **false**,
19 the value returned by this property is escaped.

20

21 [Note: Query information is separated from the path information by a
22 question mark ('?') and is located at the end of a URI. The query
23 information includes the leading question mark.]

24 Example

25

26 The following example uses the **System.Uri.Query** property to extract
27 the query from a URI.

28

29

```
30 using System;
31
32 public class UriTest {
33     public static void Main() {
34
35         Uri baseUri = new Uri("http://www.contoso.com/");
36         Uri myUri = new Uri(baseUri,
37 "catalog/shownew.htm?date=today");
38
39         Console.WriteLine(myUri.Query);
40     }
41 }
```

1 The output is
2
3 ?date=today
4

5

1 Uri.Scheme Property

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

7 Summary

8 Gets the scheme component of the URI used to construct the current
9 instance.

10 Property Value

11

12 A **System.String** containing the URI scheme.

13 Description

14 This property is read-only.

15

1 Uri.UserEscaped Property

```
2 [ILASM]  
3 .property bool UserEscaped { public hidebysig specialname  
4 instance bool get_UserEscaped() }  
5 [C#]  
6 public bool UserEscaped { get; }
```

7 Summary

8 Gets a **System.Boolean** value that indicates whether the URI
9 information used to construct the current instance was escaped before
10 the current instance was created.

11 Property Value

12

13 **true** if the *dontEscape* parameter of the constructor for the current
14 instance was set to **true**; otherwise, **false**.

15 Description

16 This property is read-only.

17

1 Uri.UserInfo Property

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

7 Summary

8 Gets the userinfo component of the URI used to construct the current
9 instance.

10 Property Value

11

12 A **System.String** containing any user information included in the URI
13 used to construct the current instance, or **System.String.Empty** if no
14 user information was included.

15 Description

16 This property is read-only.

17

18 [*Note:* For details on the userinfo component of a URI, see IETF RFC
19 2396, 3.2.2.]

20