

System.Xml.XmlParserContext Class

```
[ILAsm]
.class public XmlParserContext extends System.Object

[C#]
public class XmlParserContext
```

Assembly Info:

- *Name:* System.Xml
- *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)

Summary

Provides all the context information required by instances of the `System.Xml.XmlTextReader` class to parse an XML fragment.

Inherits From: System.Object

Library: XML

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

XmlParserContext(System.Xml.XmlNameTable, System.Xml.XmlNamespaceManager, System.String, System.Xml.XmlSpace) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(class
System.Xml.XmlNameTable nt, class System.Xml.XmlNamespaceManager nsMgr,
string xmlLang, valuetype System.Xml.XmlSpace xmlSpace)

[C#]
public XmlParserContext(XmlNameTable nt, XmlNamespaceManager nsMgr, string
xmlLang, XmlSpace xmlSpace)
```

Summary

Constructs and initializes a new instance of the `System.Xml.XmlParserContext` class with the specified values.

Parameters

Parameter	Description
<i>nt</i>	The <code>System.Xml.XmlNameTable</code> to use. If <i>nt</i> is null, this defaults to the <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .
<i>nsMgr</i>	The <code>System.Xml.XmlNamespaceManager</code> to use for looking up namespace information, or null.
<i>xmlLang</i>	A <code>System.String</code> specifying the <code>xml:lang</code> scope.
<i>xmlSpace</i>	A <code>System.Xml.XmlSpace</code> value indicating the <code>xml:space</code> scope.

Description

This method is equivalent to `System.Xml.XmlParserContext(nt, nsMgr, null, null, null, null, System.String.Empty, xmlLang, xmlSpace, null)` constructor.

Exceptions

Exception	Condition
System.Xml.XmlException	<i>nt</i> is not the same <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .

1
2
3

XmlParserContext(System.Xml.XmlNameTable, System.Xml.XmlNamespaceManager, System.String, System.Xml.XmlSpace, System.Text.Encoding) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(class
System.Xml.XmlNameTable nt, class System.Xml.XmlNamespaceManager nsMgr,
string xmlLang, valuetype System.Xml.XmlSpace xmlSpace, class
System.Text.Encoding enc)

[C#]
public XmlParserContext(XmlNameTable nt, XmlNamespaceManager nsMgr, string
xmlLang, XmlSpace xmlSpace, Encoding enc)
```

Summary

Constructs and initializes a new instance of the `System.Xml.XmlParserContext` class with the specified values.

Parameters

Parameter	Description
<i>nt</i>	The <code>System.Xml.XmlNameTable</code> to use. If <i>nt</i> is null, this defaults to the <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .
<i>nsMgr</i>	The <code>System.Xml.XmlNamespaceManager</code> to use for looking up namespace information, or null.
<i>xmlLang</i>	A <code>System.String</code> specifying the <code>xml:lang</code> scope.
<i>xmlSpace</i>	A <code>System.Xml.XmlSpace</code> value indicating the <code>xml:space</code> scope.
<i>enc</i>	An instance of a class derived from the <code>System.Text.Encoding</code> class indicating the encoding to use.

Description

This method is equivalent to `System.Xml.XmlParserContext(nt, nsMgr, null, null, null, null, System.String.Empty, xmlLang, xmlSpace, enc)`.

1 **Exceptions**

2

3

Exception	Condition
System.Xml.XmlException	<i>nt</i> is not the same <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .

4

5

6

XmlParserContext(System.Xml.XmlNameTable, System.Xml.XmlNamespaceManager, System.String, System.String, System.String, System.String, System.String, System.Xml.XmlSpace) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(class
System.Xml.XmlNameTable nt, class System.Xml.XmlNamespaceManager nsMgr,
string docTypeName, string pubId, string sysId, string internalSubset,
string baseURI, string xmlLang, valuetype System.Xml.XmlSpace xmlSpace)

[C#]
public XmlParserContext(XmlNameTable nt, XmlNamespaceManager nsMgr, string
docTypeName, string pubId, string sysId, string internalSubset, string
baseURI, string xmlLang, XmlSpace xmlSpace)
```

Summary

Constructs and initializes a new instance of the `System.Xml.XmlParserContext` class with the specified values.

Parameters

Parameter	Description
<i>nt</i>	The <code>System.Xml.XmlNameTable</code> to use. If <i>nt</i> is null, this defaults to the <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .
<i>nsMgr</i>	The <code>System.Xml.XmlNamespaceManager</code> to use for looking up namespace information, or null.
<i>docTypeName</i>	A <code>System.String</code> specifying the name of the document type declaration.
<i>pubId</i>	A <code>System.String</code> specifying the public identifier.
<i>sysId</i>	A <code>System.String</code> specifying the system identifier.
<i>internalSubset</i>	A <code>System.String</code> specifying the internal DTD subset.

<i>baseURI</i>	A <code>System.String</code> specifying the base URI for the XML fragment (the location from which the fragment was loaded).
<i>xmlLang</i>	A <code>System.String</code> containing the <code>xml:lang</code> scope.
<i>xmlSpace</i>	A <code>System.Xml.XmlSpace</code> value indicating the <code>xml:space</code> scope.

Description

This method is equivalent to `System.Xml.XmlParserContext(nt, nsMgr, docTypeName, pubId, sysId, internalSubset, baseUri, xmlLang, xmlSpace, null)`.

Exceptions

Exception	Condition
System.Xml.XmlException	<i>nt</i> is not the same <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .

XmlParserContext(System.Xml.XmlNameTable, System.Xml.XmlNamespaceManager, System.String, System.String, System.String, System.String, System.String, System.Xml.XmlSpace, System.Text.Encoding) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(class
System.Xml.XmlNameTable nt, class System.Xml.XmlNamespaceManager nsMgr,
string docTypeName, string pubId, string sysId, string internalSubset,
string baseURI, string xmlLang, valuetype System.Xml.XmlSpace xmlSpace,
class System.Text.Encoding enc)

[C#]
public XmlParserContext(XmlNameTable nt, XmlNamespaceManager nsMgr, string
docTypeName, string pubId, string sysId, string internalSubset, string
baseURI, string xmlLang, XmlSpace xmlSpace, Encoding enc)
```

Summary

Constructs and initializes a new instance of the `System.Xml.XmlParserContext` class with the specified values.

Parameters

Parameter	Description
<i>nt</i>	The <code>System.Xml.XmlNameTable</code> to use. If <i>nt</i> is null, this defaults to the <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .
<i>nsMgr</i>	The <code>System.Xml.XmlNamespaceManager</code> to use for looking up namespace information, or null.
<i>docTypeName</i>	A <code>System.String</code> specifying the name of the document type declaration.
<i>pubId</i>	A <code>System.String</code> specifying the public identifier.
<i>sysId</i>	A <code>System.String</code> specifying the system identifier.

<i>internalSubset</i>	A <code>System.String</code> specifying the internal DTD subset.
<i>baseURI</i>	A <code>System.String</code> specifying the base URI for the XML fragment (the location from which the fragment was loaded).
<i>xmlLang</i>	A <code>System.String</code> specifying the <code>xml:lang</code> scope.
<i>xmlSpace</i>	A <code>System.Xml.XmlSpace</code> value indicating the <code>xml:space</code> scope.
<i>enc</i>	The <code>System.Text.Encoding</code> to use.

Description

The constructor sets `System.Xml.XmlParserContext.BaseURI` to *baseURI*, `System.Xml.XmlParserContext.DocTypeName` to *docTypeName*, `System.Xml.XmlParserContext.InternalSubset` to *internalSubset*, `System.Xml.XmlParserContext.PublicId` to *pubId*, `System.Xml.XmlParserContext.SystemId` to *sysId*, and `System.Xml.XmlParserContext.XmlLang` to *xmlLang*. If null is passed for any of these parameters, the corresponding property is set to `System.String.Empty`.

[*Note:* The DocumentType (DTD) information stored in this constructor is ignored when an instance of the class is passed to a `System.Xml.XmlTextReader`.

]

Exceptions

Exception	Condition
System.Xml.XmlException	<i>nt</i> is not the same <code>System.Xml.XmlNameTable</code> used to construct <i>nsMgr</i> .

XmlParserContext.BaseURI Property

```
[ILAsm]
.property string BaseURI { public hidebysig specialname instance string
get_BaseURI() public hidebysig specialname instance void
set_BaseURI(string value) }

[C#]
public string BaseURI { get; set; }
```

Summary

Gets or sets the base URI.

Property Value

A `System.String` specifying the base URI to use for resolving the DTD file.

Description

If an attempt is made to set this property to `null`, it is set to `System.String.Empty`.

[*Note:* A networked XML document is comprised of chunks of data aggregated using various W3C standard inclusion mechanisms and therefore can contain nodes that come from different places. The `System.Xml.XmlParserContext.BaseURI` property shows where these nodes originated.

]

XmlParserContext.DocTypeName Property

```
[ILAsm]
.property string DocTypeName { public hidebysig specialname instance
string get_DocTypeName() public hidebysig specialname instance void
set_DocTypeName(string value) }

[C#]
public string DocTypeName { get; set; }
```

Summary

Gets or sets the name of the document type in a document type declaration.

Property Value

A `System.String` specifying the name of the document type.

Description

If an attempt is made to set this property to null, it is set to `System.String.Empty`.

[*Note:* A document type declaration is of the following form:

```
<!DOCTYPE DocTypeName PUBLIC "PublicId" "SystemId" [InternalSubset]>
```

This property, along with `System.Xml.XmlParserContext.InternalSubset`, `System.Xml.XmlParserContext.PublicId`, and `System.Xml.XmlParserContext.SystemId` properties, provide all the document type declaration information.

```
]
```

XmlParserContext.Encoding Property

```
[ILAsm]
.property class System.Text.Encoding Encoding { public hidebysig
specialname instance class System.Text.Encoding get_Encoding() public
hidebysig specialname instance void set_Encoding(class
System.Text.Encoding value) }

[C#]
public Encoding Encoding { get; set; }
```

Summary

Gets or sets the encoding type.

Property Value

A System.Text.Encoding indicating the encoding type.

XmlParserContext.InternalSubset Property

```
[ILAsm]
.property string InternalSubset { public hidebysig specialname instance
string get_InternalSubset() public hidebysig specialname instance void
set_InternalSubset(string value) }

[C#]
public string InternalSubset { get; set; }
```

Summary

Gets or sets the internal subset in a document type declaration.

Property Value

A `System.String` specifying the internal subset.

Description

If an attempt is made to set this property to null, it is set to `System.String.Empty`.

[*Note:* A document type declaration is of the following form:

```
<!DOCTYPE DocTypeName PUBLIC "PublicId" "SystemId" [InternalSubset]>
```

This property, along with `System.Xml.XmlParserContext.DocTypeName`, `System.Xml.XmlParserContext.PublicId`, and `System.Xml.XmlParserContext.SystemId` properties, provide all the document type declaration information.

]

XmlParserContext.NamespaceManager

Property

```
[ILAsm]
.property class System.Xml.XmlNamespaceManager NamespaceManager { public
hidebysig specialname instance class System.Xml.XmlNamespaceManager
get_NamespaceManager() public hidebysig specialname instance void
set_NamespaceManager(class System.Xml.XmlNamespaceManager value) }

[C#]
public XmlNamespaceManager NamespaceManager { get; set; }
```

Summary

Gets or sets the `System.Xml.XmlNamespaceManager` used by the current instance.

Property Value

The `System.Xml.XmlNamespaceManager` used by the current instance.

Description

[*Note:* A `System.Xml.XmlNamespaceManager` defines the current namespace scope and provides methods for looking up namespace information.

]

XmlParserContext.NameTable Property

```
[ILAsm]
.property class System.Xml.XmlNameTable NameTable { public hidebysig
specialname instance class System.Xml.XmlNameTable get_NameTable() public
hidebysig specialname instance void set_NameTable(class
System.Xml.XmlNameTable value) }

[C#]
public XmlNameTable NameTable { get; set; }
```

Summary

Gets or sets the `System.Xml.XmlNameTable` used by the current instance to look up prefixes and namespace URIs.

Property Value

The `System.Xml.XmlNameTable` used by the current instance.

XmlParserContext.PublicId Property

```
[ILAsm]
.property string PublicId { public hidebysig specialname instance string
get_PublicId() public hidebysig specialname instance void
set_PublicId(string value) }

[C#]
public string PublicId { get; set; }
```

Summary

Gets or sets the public identifier in a document type declaration.

Property Value

A `System.String` specifying the public identifier.

Description

If an attempt is made to set this property to null, it is set to `System.String.Empty`.

[*Note:* A document type declaration is of the following form:

```
<!DOCTYPE DocTypeName PUBLIC "PublicId" "SystemId" [InternalSubset]>
```

This property, along with `System.Xml.XmlParserContext.DocTypeName`, `System.Xml.XmlParserContext.InternalSubset`, and `System.Xml.XmlParserContext.SystemId` properties, provide all the document type declaration information.

]

XmlParserContext.SystemId Property

```
[ILAsm]
.property string SystemId { public hidebysig specialname instance string
get_SystemId() public hidebysig specialname instance void
set_SystemId(string value) }

[C#]
public string SystemId { get; set; }
```

Summary

Gets or sets the system identifier in a document type declaration.

Property Value

A `System.String` specifying the system identifier.

Description

If an attempt is made to set this property to null, it is set to `System.String.Empty`.

[*Note:* A document type declaration is of the following form:

```
<!DOCTYPE DocTypeName PUBLIC "PublicId" "SystemId" [InternalSubset]>
```

This property, along with `System.Xml.XmlParserContext.DocTypeName`, `System.Xml.XmlParserContext.InternalSubset`, and `System.Xml.XmlParserContext.PublicId` properties, provide all the document type declaration information.

]

XmlParserContext.XmlLang Property

```
[ILAsm]
.property string XmlLang { public hidebysig specialname instance string
get_XmlLang() public hidebysig specialname instance void
set_XmlLang(string value) }

[C#]
public string XmlLang { get; set; }
```

Summary

Gets or sets the current `xml:lang` scope.

Property Value

A `System.String` specifying the current `xml:lang` scope. If there is no `xml:lang` in scope, `System.String.Empty` is returned.

Description

If an attempt is made to set this property to `null`, it is set to `System.String.Empty`.

[*Note:* The language attribute, `xml:lang`, specifies the language in which the content and attribute values of the current element are written.

For details on valid `xml:lang` values, refer to section 2.12 of the W3C Extensible Markup Language (XML) 1.0 recommendation.

]

XmlParserContext.XmlSpace Property

```
[ILAsm]
.property valuetype System.Xml.XmlSpace XmlSpace { public hidebysig
specialname instance valuetype System.Xml.XmlSpace get_XmlSpace() public
hidebysig specialname instance void set_XmlSpace(valuetype
System.Xml.XmlSpace value) }

[C#]
public XmlSpace XmlSpace { get; set; }
```

Summary

Gets or sets the current `xml:space` scope.

Property Value

One of the members of the `System.Xml.XmlSpace` enumeration indicating the `xml:space` scope.

Description

[*Note:* The white space attribute, `xml:space`, specifies how white space is handled in the current element.

]