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
nt	The `System.Xml.XmlNameTable` to use. If *nt* is `null`, this defaults to the `System.Xml.XmlNameTable` used to construct *nsMgr*.
nsMgr	The `System.Xml.XmlNamespaceManager` to use for looking up namespace information, or `null`.
xmlLang	A `System.String` specifying the `xml:lang` scope.
xmlSpace	A `System.Xml.XmlSpace` value indicating the `xml:space` 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	*nt* is not the same `System.Xml.XmlNameTable` used to construct *nsMgr*.

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

Exceptions

Exception	Condition
System.Xml.XmlException	*nt* is not the same `System.Xml.XmlNameTable` used to construct *nsMgr*.

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XmlParserContext(System.Xml.XmlNameTable, System.Xml.XmlNamespaceManager, System.String, 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
nt	The `System.Xml.XmlNameTable` to use. If *nt* is `null`, this defaults to the `System.Xml.XmlNameTable` used to construct *nsMgr*.
nsMgr	The `System.Xml.XmlNamespaceManager` to use for looking up namespace information, or `null`.
docTypeName	A `System.String` specifying the name of the document type declaration.
pubId	A `System.String` specifying the public identifier.
sysId	A `System.String` specifying the system identifier.
internalSubset	A `System.String` specifying the internal DTD subset.
baseURI	A `System.String` specifying the base URI for the XML fragment (the location from which the fragment was loaded).

xmlLang	A `System.String` containing the `xml:lang` scope.
xmlSpace	A `System.Xml.XmlSpace` value indicating the `xml:space` 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	*nt* is not the same `System.Xml.XmlNameTable` used to construct *nsMgr*.

XmlParserContext(System.Xml.XmlNameTable, System.Xml.XmlNamespaceManager, System.String, 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
nt	The `System.Xml.XmlNameTable` to use. If *nt* is `null`, this defaults to the `System.Xml.XmlNameTable` used to construct *nsMgr*.
nsMgr	The `System.Xml.XmlNamespaceManager` to use for looking up namespace information, or `null`.
docTypeName	A `System.String` specifying the name of the document type declaration.
pubId	A `System.String` specifying the public identifier.
sysId	A `System.String` specifying the system identifier.
internalSubset	A `System.String` specifying the internal DTD subset.

baseURI	A `System.String` specifying the base URI for the XML fragment (the location from which the fragment was loaded).
xmlLang	A `System.String` specifying the `xml:lang` scope.
xmlSpace	A `System.Xml.XmlSpace` value indicating the `xml:space` scope.
enc	The `System.Text.Encoding` 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`.

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Exceptions

Exception	Condition
System.Xml.XmlException	*nt* is not the same `System.Xml.XmlNameTable` used to construct *nsMgr*.

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.

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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.

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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.

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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.

]