XML

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Supported Clients

SmartClient WebClient NGClient

Property Summary

Boolean	ignoreComments	If set to true, then comments in the XML are ignored when constructing new XML objects.
Boolean	ignoreProcessingInstructions	If set to true, then processing instructions are ignored when constructing new XML objects.
Boolean	ignoreWhitespace	If set to true, then whitespace in the XML is ignored when constructing new XML objects.
Boolean	prettyIndent	The amount of positions used when indenting child nodes are relative to their parent if prettyPrinting is enabled.
Boolean	prettyPrinting	If set to true, then toString() and toXMLString() methods will normalize the output to achieve a uniform appearance.

Methods Summary

XML	addNamespace(namespaceToAdd)	Takes one argument which can be a string with a namespace URI or a Namespace object and adds the argument to the in scope namespaces of this XML object.
XML	appendChild(childToAppend)	Appends a new child at the end of this XML object's properties, the changed XML object is then returned.
XMLList	attribute(attributeName)	Takes a single argument with the attribute name and returns an XMLList with attributes matching the argument.
XMLList	attributes()	Returns an XMLList with the attributes of this XML object which are in no namespace.
XMLList	child(propertyName)	Returns an XMLList with children matching the property name.
Number	childIndex()	If the XML object has no parent then the special number NaN is returned, otherwise the ordinal position the object has in the context of its parent is returned.
XMLList	children()	Returns an XMLList with the child nodes of this XML object.
XMLList	comments()	Returns an XMLList with the comment nodes which are children of this XML object.
Boolean	contains(value)	Calling xmlObject.
XML	copy()	Returns a deep copy of the XML object it is called on where the internal parent property is set to null
Object	defaultSettings()	Returns an object containing the default XML settings.
XMLList	descendants()	Returns an XMLList with the descendants matching the passed name argument or with all descendants if no argument is passed.
XMLList	descendants(name)	Returns an XMLList with the descendants matching the passed name argument or with all descendants if no argument is passed.
XMLList	elements()	Takes one optional argument, the name of elements you are looking for, and returns an XMLList with all matching child elements.
XMLList	elements(name)	Takes one optional argument, the name of elements you are looking for, and returns an XMLList with all matching child elements.
Boolean	hasComplexContent()	Returns false for XML objects of node kind 'text', 'attribute', 'comment', and 'processing-instruction'.
Boolean	hasOwnProperty(propertyName)	Returns true if the XML object the method is called on has a property of that name.
Boolean	hasSimpleContent()	Returns true for XML objects of node kind text or attribute.
Array	inScopeNamespaces()	Returns an array of Namespace objects representing the namespace that are in scope for this XML object.
XML	insertChildAfter(childToInserAfter, childToInsert)	Takes two arguments, an existing child to insert after and the new child to be inserted.
XML	insertChildBefore(childToInsertBefore, childToInsert)	Takes two arguments, an existing child to insert before and the new child to be inserted.
Number	length()	This always returns 1.
String	localName()	returns the local name part if the XML object has a name.
QName	name()	Returns the qualified name (a QName object) of the XML object it is called
Namespace	namespace()	If no argument is passed to the method then it returns the namespace associated with the qualified name of this XML object.
Namespace	namespace(prefix)	If no argument is passed to the method then it returns the namespace associated with the qualified name of this XML object.
Array	namespaceDeclarations()	Returns an array with the namespace declarations associated with the XML object it is called on.
String	nodeKind()	Returns a string denoting the kind of node this XML object represents.
XML	normalize()	Returns this XML object after normalizing all text content.
XML	parent()	Returns the parent XML object of this XML object or null if there is no parent.
XML	prependChild(childToPrepend)	Iinserts the given value as the first child of the XML object and returns the XML object.
XMLList	processingInstructions()	If no argument is passed in then the method returns an XMLList with all the children of the XML object which are processing instructions.
XMLList	processingInstructions(name)	If no argument is passed in then the method returns an XMLList with all the children of the XML object which are processing instructions.

Boolean	propertyIsEnumerable(propertyName)	Returns true if the property name is '0' and false otherwise.
XML	removeNamespace(namespace)	Removes the namespace from the in scope namespaces of this XML object if the namespace is not used for the qualified name of the object or its attributes.
XML	replace(propertyName, replacementValue)	Takes two arguments, the property name of the property / properties to be replaced, and the value to replace the properties.
XML	setChildren(value)	Replaces all children of the XML object with this value.
void	setLocalName(name)	Changes the local name of this XML object to the name passed in.
void	setName(name)	Replaces the name of this XML object with the name passed in.
void	setNamespace(namespace)	Changes the namespace associated with the name of this XML object to the new namespace.
void	setSettings()	Allows the global XML settings to be adjusted or restored to their default values.
void	setSettings(settings)	Allows the global XML settings to be adjusted or restored to their default values.
Object	settings()	Returns an object containing the global XML settings.
XMLList	text()	Returns an XMLList with all the children of this XML object that represent text nodes.
String	toString()	Returns a convenient string value of this XML object.
String	toXMLString()	Returns a string with the serialized XML markup for this XML object.
XML	valueOf()	The method simply returns the XML object it is called on.

Property Details

ignoreComments

If set to true, then comments in the XML are ignored when constructing new XML objects.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var element = <foo><!-- my comment --><bar/></foo>;
application.output(element.comments().length());
application.output(element.toXMLString());

XML.ignoreComments = false;

element = <foo><!-- my comment --><bar/></foo>;
application.output(element.comments().length());
application.output(element.toXMLString());
```

ignoreProcessingInstructions

If set to true, then processing instructions are ignored when constructing new XML objects.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
XML.ignoreProcessingInstructions=false;
var xmlElement = <publishing><?process author="yes"?><author type="leadership">John C. Maxwell</author><
/publishing>;
application.output(" Element = "+ xmlElement.toXMLString());
```

ignoreWhitespace

If set to true, then whitespace in the XML is ignored when constructing new XML objects.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
XML.ignoreWhitespace = false;
 var xmlElement =
 <publishing>
        <author>John C. Maxwell</author>
 </publishing>;
 application.output(xmlElement.toString());
```

prettyIndent

The amount of positions used when indenting child nodes are relative to their parent if prettyPrinting is enabled.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var xmlElement = <publishing><author>Tom DeMarco</author><author>Roger S. Pressman</author></publishing>;
application.output(xmlElement.toXMLString());
XML.prettyPrinting = true;
XML.prettyIndent = 4;
xmlElement = <publishing><author>Tom DeMarco</author><author>Roger S. Pressman</author></publishing>;
application.output(xmlElement.toXMLString());
```

prettyPrinting

If set to true, then toString() and toXMLString() methods will normalize the output to achieve a uniform appearance.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var xmlElement = <publishing><author>Tom DeMarco</author><author>Roger S. Pressman</author></publishing>;
application.output(xmlElement.toXMLString());
XML.prettyPrinting = true;
XML.prettyIndent = 4;
xmlElement = <publishing><author>Tom DeMarco</author><author>Roger S. Pressman</author></publishing>;
application.output(xmlElement.toXMLString());
```

Methods Details

addNamespace(namespaceToAdd)

Takes one argument which can be a string with a namespace URI or a Namespace object and adds the argument to the in scope namespaces of this XML object.

Parameters

String namespaceToAdd ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.addNamespace(namespaceToAdd)
```

appendChild(childToAppend)

Appends a new child at the end of this XML object's properties, the changed XML object is then returned.

Parameters

XML childToAppend ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.appendChild(childToAppend)
```

attribute(attributeName)

Takes a single argument with the attribute name and returns an XMLList with attributes matching the argument.

Parameters

String attributeName ;

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.attribute(attributeName)
```

attributes()

Returns an XMLList with the attributes of this XML object which are in no namespace.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.attributes()
```

child(propertyName)

Returns an XMLList with children matching the property name.

Parameters

String propertyName ;

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.child(childPropertyName)
```

childIndex()

If the XML object has no parent then the special number NaN is returned, otherwise the ordinal position the object has in the context of its parent is returned.

Returns

Number

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.childIndex()
```

children()

Returns an XMLList with the child nodes of this XML object.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.children()
```

comments()

Returns an XMLList with the comment nodes which are children of this XML object.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.comments()
```

contains(value)

Calling xmlObject.contains(value) yields the same result as the equality comparison xmlObject == value

Parameters

Object value ;

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.contains(value)
```

copy()

Returns a deep copy of the XML object it is called on where the internal parent property is set to null

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.copy()
```

defaultSettings()

Returns an object containing the default XML settings.

Returns

Object

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.defaultSettings()
```

descendants()

Returns an XMLList with the descendants matching the passed name argument or with all descendants if no argument is passed.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.descendants([name])
```

descendants(name)

Returns an XMLList with the descendants matching the passed name argument or with all descendants if no argument is passed.

Parameters

String name ;

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.descendants([name])
```

elements()

Takes one optional argument, the name of elements you are looking for, and returns an XMLList with all matching child elements.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.elements([name])
```

elements(name)

Takes one optional argument, the name of elements you are looking for, and returns an XMLList with all matching child elements.

Parameters

String name ;

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.elements([name])
```

hasComplexContent()

Returns false for XML objects of node kind 'text', 'attribute', 'comment', and 'processing-instruction'.
For objects of kind 'element' it checks whether the element has at least one child element.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.hasComplexContent()
```

hasOwnProperty(propertyName)

Returns true if the XML object the method is called on has a property of that name.

Parameters

String propertyName ;

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.hasOwnProperty(propertyName)
```

hasSimpleContent()

Returns true for XML objects of node kind text or attribute. For XML objects of node kind
element it returns true if the element has no child elements and false otherwise.
For other node kinds (comment, processing instruction) the method always returns false.

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.hasSimpleContent()
```

inScopeNamespaces()

Returns an array of Namespace objects representing the namespace that are in scope for this XML object.

Returns

Array

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.inScopeNamespaces()
```

insertChildAfter(childToInserAfter, childToInsert)

Takes two arguments, an existing child to insert after and the new child to be inserted.
If the first argument is null then the second argument is inserted as the first child of this XML.

Parameters

XML childToInserAfter ;
XML childToInsert ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.insertChildAfter(childToInsertAfter, childToInsert)
```

insertChildBefore(childToInsertBefore, childToInsert)

Takes two arguments, an existing child to insert before and the new child to be inserted.
If the first argument is null then the child is inserted as the last child.

Parameters

XML childToInsertBefore ;
XML childToInsert ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.insertChildBefore(childToInsertBefore, childToInsert)
```

length()

This always returns 1. This is done to blur the distinction between an XML object and an XMLList
containing exactly one value.

Returns

Number

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.length()
```

localName()

returns the local name part if the XML object has a name.

Returns

String

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.localName()
```

name()

Returns the qualified name (a QName object) of the XML object it is called

Returns

QName

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.name()
```

namespace()

If no argument is passed to the method then it returns the namespace associated with the qualified name of this XML object. If a prefix is passed to the method then it looks for a matching namespace in the in scope namespace of this XML object and returns it when found, otherwise undefined is returned.

Returns

Namespace

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.namespace([prefix])
```

namespace(prefix)

If no argument is passed to the method then it returns the namespace associated with the qualified name of this XML object. If a prefix is passed to the method then it looks for a matching namespace in the in scope namespace of this XML object and returns it when found, otherwise undefined is returned.

Parameters

String prefix ;

Returns

Namespace

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.namespace([prefix])
```

namespaceDeclarations()

Returns an array with the namespace declarations associated with the XML object it is called on.

Returns

Array

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.namespaceDeclarations()
```

nodeKind()

Returns a string denoting the kind of node this XML object represents. Possible values: 'element', 'attribute', 'text', 'comment', 'processing-instruction'.

Returns

String

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.nodeKind()
```

normalize()

Returns this XML object after normalizing all text content.

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.normalize()
```

parent()

Returns the parent XML object of this XML object or null if there is no parent.

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.parent()
```

prependChild(childToPrepend)

Iinserts the given value as the first child of the XML object and returns the XML object.

Parameters

XML childToPrepend ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.prependChild(childToPrepend)
```

processingInstructions()

If no argument is passed in then the method returns an XMLList with all the children of the XML object which are processing instructions. If an argument is passed in then the method returns an XMLList with all children of the XML object which are processing instructions where the name matches the argument.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.processingInstructions([name])
```

processingInstructions(name)

If no argument is passed in then the method returns an XMLList with all the children of the XML object which are processing instructions. If an argument is passed in then the method returns an XMLList with all children of the XML object which are processing instructions where the name matches the argument.

Parameters

String name ;

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.processingInstructions([name])
```

propertyIsEnumerable(propertyName)

Returns true if the property name is '0' and false otherwise.

Parameters

String propertyName ;

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.propertyIsEnumerable(propertyName)
```

removeNamespace(namespace)

Removes the namespace from the in scope namespaces of this XML object if the namespace is not used for the qualified name of the object or its attributes.

Parameters

Namespace namespace ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.removeNamespace(namespace)
```

replace(propertyName, replacementValue)

Takes two arguments, the property name of the property / properties to be replaced, and the value to replace the properties.

Parameters

String propertyName ;
XML replacementValue ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.replace(propertyName, replacementValue)
```

setChildren(value)

Replaces all children of the XML object with this value. The method returns the XML object it is called on.

Parameters

Object value ;

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.setChildren(value)
```

setLocalName(name)

Changes the local name of this XML object to the name passed in.

Parameters

String name ;

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.setLocalName(name)
```

setName(name)

Replaces the name of this XML object with the name passed in.

Parameters

String name ;

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.setName(name)
```

setNamespace(namespace)

Changes the namespace associated with the name of this XML object to the new namespace.

Parameters

Namespace namespace ;

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.setNamespace(namespace)
```

setSettings()

Allows the global XML settings to be adjusted or restored to their default values.

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.setSettings(settings)
```

setSettings(settings)

Allows the global XML settings to be adjusted or restored to their default values.

Parameters

Object settings The new settings that should be applied globally to the XML object.

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.setSettings(settings)
```

settings()

Returns an object containing the global XML settings.

Returns

Object

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.settings()
```

text()

Returns an XMLList with all the children of this XML object that represent text nodes.

Returns

XMLList

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.text()
```

toString()

Returns a convenient string value of this XML object.

Returns

String

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.toString()
```

toXMLString()

Returns a string with the serialized XML markup for this XML object. XML.prettyPrinting and XML.prettyIndent settings affect the returned string.

Returns

String

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.toXMLString()
```

valueOf()

The method simply returns the XML object it is called on.

Returns

XML

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
xml.valueOf()
```