
NSXMLDTDNode Class Reference

[Cocoa > Data Management](#)



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NSXMLDTDNode Class Reference

Inherits from	NSXMLNode : NSObject
Conforms to	NSCopying (NSXMLNode) NSObject (NSObject)
Framework	/System/Library/Frameworks/Foundation.framework
Availability	Available in Mac OS X v10.4 and later.
Companion guide	Tree-Based XML Programming Guide for Cocoa
Declared in	NSXMLDTDNode.h

Overview

Instances of the `NSXMLDTDNode` class represent element, attribute-list, entity, and notation declarations in a Document Type Definition. `NSXMLDTDNode` objects are the sole children of a `NSXMLDTD` object (possibly along with comment nodes and processing-instruction nodes). They themselves cannot have any children.

`NSXMLDTDNode` objects can be of four kinds—element, attribute-list, entity, or notation declaration—and can also be of a subkind, as specified by a `NSXMLDTDNodeKind` constant. For example, a DTD entity-declaration node could represent an unparsed entity declaration (`NSXMLEntityUnparsedKind`) rather than a parameter entity declaration (`NSXMLEntityParameterKind`). You can use a DTD node's subkind to help determine how to handle the value of the node.

You can create an `NSXMLDTDNode` object with the `initWithXMLString:` (page 7) method, the `NSXMLNode` class method `DTDNodeWithXMLString:`, or with the `NSXMLNode` initializer `initWithKind:options:` (in the latter method supplying the appropriate `NSXMLNodeKind` constant).

Setting the object value or string value of an `NSXMLDTDNode` objects affects different parts of different kinds of declaration. See the related programming topic for more information.

Tasks

Initializing an `NSXMLDTDNode` Object

- `initWithXMLString:` (page 7)

Returns an `NSXMLDTDNode` object initialized with the DTD declaration in a given string.

Managing the DTD Node Kind

- [DTDKind](#) (page 6)
Returns the receiver's DTD kind.
- [setDTDKind:](#) (page 8)
Sets the receiver's DTD kind.

Managing DTD Identifiers

- [isExternal](#) (page 7)
Returns a Boolean value that indicates whether the receiver represents a declaration from an external DTD (the system ID is set).
- [setNotationName:](#) (page 9)
Sets the notation name associated with the receiver.
- [notationName](#) (page 8)
Returns the name of the notation associated with the receiver.
- [setPublicID:](#) (page 9)
Sets the public identifier associated with the receiver.
- [publicID](#) (page 8)
Returns the public identifier associated with the receiver.
- [setSystemID:](#) (page 10)
Sets the system identifier associated with the receiver.
- [systemID](#) (page 10)
Returns the system identifier associated with the receiver.

Instance Methods

DTDKind

Returns the receiver's DTD kind.

- (NSXMLDTDNodeKind) DTDKind

Return Value

The receiver's DTD kind. See "[Constants](#)" (page 10) for a list of valid NSXMLDTDNodeKind constants.

Discussion

The DTD kind is distinct from a NSXMLDTDNode object's node kind (returned by the NSXMLNode kind method).

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setDTDKind:](#) (page 8)

Declared In

NSXMLDTDNode.h

initWithXMLString:

Returns an `NSXMLDTDNode` object initialized with the DTD declaration in a given string.

```
- (id)initWithXMLString:(NSString *)string
```

Parameters*string*

The DTD declaration.

Return Value

An `NSXMLDTDNode` object initialized with the DTD declaration in *string*. Returns `nil` if initialization did not succeed, as might occur if the passed-in declaration is malformed.

Discussion

The node kind (`NSXMLNode`) assigned to the returned object—element, attribute, entity, or notation declaration—is based on the full XML string that is parsed. To assign a subkind, use the [setDTDKind:](#) (page 8) method.

You may also use the `DTDNodeWithXMLString:` or `initWithKind:` methods to create `NSXMLDTDNode` instances. However, you cannot use the latter method to create `NSXMLDTDNode` instances for attribute-list declarations.

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSXMLDTDNode.h

isExternal

Returns a Boolean value that indicates whether the receiver represents a declaration from an external DTD (the system ID is set).

```
- (BOOL)isExternal
```

Return Value

YES if receiver represents a declaration from an external DTD (the system ID is set), otherwise NO.

Discussion

This method is valid only for objects representing entities and notations.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setSystemID:](#) (page 10)

Declared In

NSXMLDTDNode.h

notationName

Returns the name of the notation associated with the receiver.

- (NSString *)notationName

Return Value

The name of the notation associated with the receiver.

Discussion

Notations are applicable to unparsed external entities, processing instructions, and some attribute values.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setNotationName:](#) (page 9)

Declared In

NSXMLDTDNode.h

publicID

Returns the public identifier associated with the receiver.

- (NSString *)publicID

Return Value

The public identifier associated with the receiver.

Discussion

The public ID is applicable to entities and notations.

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSXMLDTDNode.h

setDTDKind:

Sets the receiver's DTD kind.

- (void)setDTDKind:(NSXMLDTDNodeKind)kind

Parameters

kind

The receiver's DTD kind. See [“Constants”](#) (page 10) for a list of valid NSXMLDTDNodeKind constants.

Discussion

The DTD kind is a finer grain of an NSXMLDTDNode object's node kind (returned by the NSXMLNode kind method).

Availability

Available in Mac OS X v10.4 and later.

See Also

- [DTDKind](#) (page 6)

Declared In

NSXMLDTDNode.h

setNotationName:

Sets the notation name associated with the receiver.

```
- (void)setNotationName:(NSString *)notationName
```

Parameters

notationName

The notation name associated with the receiver.

Discussion

This method is valid for entities only.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [notationName](#) (page 8)

Declared In

NSXMLDTDNode.h

setPublicID:

Sets the public identifier associated with the receiver.

```
- (void)setPublicID:(NSString *)publicID
```

Parameters

publicID

The public identifier associated with the receiver. This identifier should be in the default catalog in `/etc/xml/catalog` or in a path specified by the environment variable `XML_CATALOG_FILES`.

Discussion

This method is valid for entities and notations only. When the public ID is set the system ID must also be set.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [publicID](#) (page 8)
- [setSystemID:](#) (page 10)

Declared In

NSXMLDTDNode.h

setSystemID:

Sets the system identifier associated with the receiver.

```
- (void)setSystemID:(NSString *)systemID
```

Parameters

systemID

The system identifier associated with the receiver. This value must be a valid URI.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [systemID](#) (page 10)

Declared In

NSXMLDTDNode.h

systemID

Returns the system identifier associated with the receiver.

```
- (NSString *)systemID
```

Return Value

The system identifier associated with the receiver.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setSystemID:](#) (page 10)

Declared In

NSXMLDTDNode.h

Constants

NSXMLDTDNodeKind

The type defined for the constants that specify the kind and subkind of DTD declaration represented by an NSXMLDTDNode object. You set the DTD-node kind using the [setDTDKind:](#) (page 8) method.

```
typedef NSUInteger NSXMLDTDNodeKind;
```

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSXMLDTDNode.h

DTD Node Kind Constants

Constants that specify the kind and subkind of DTD declaration represented by an `NSXMLDTDNode` object. You set the DTD-node kind using the `setDTDKind:` (page 8) method.

```
enum {
    NSXMLEntityGeneralKind = 1,
    NSXMLEntityParsedKind,
    NSXMLEntityUnparsedKind,
    NSXMLEntityParameterKind,
    NSXMLEntityPredefined,

    NSXMLAttributeCDATAKind,
    NSXMLAttributeIDKind,
    NSXMLAttributeIDRefKind,
    NSXMLAttributeIDRefsKind,
    NSXMLAttributeEntityKind,
    NSXMLAttributeEntitiesKind,
    NSXMLAttributeNMTOKENKind,
    NSXMLAttributeNMTOKENSKind,
    NSXMLAttributeEnumerationKind,
    NSXMLAttributeNotationKind,

    NSXMLElementDeclarationUndefinedKind,
    NSXMLElementDeclarationEmptyKind,
    NSXMLElementDeclarationAnyKind,
    NSXMLElementDeclarationMixedKind,
    NSXMLElementDeclarationElementKind
};
```

Constants

`NSXMLEntityGeneralKind`

Identifies a general entity declaration.

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLEntityParsedKind`

Identifies a parsed entity declaration.

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLEntityUnparsedKind`

Identifies an unparsed entity declaration.

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLEntityParameterKind`

Identifies a parameter entity declaration.

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLEntityPredefined`

Identifies a predefined entity declaration.

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeCDATAKind`

Identifies an attribute-list declaration with a `CDATA` (character data) value type.

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeIDKind`

Identifies an attribute-list declaration with an `ID` value type (per-document unique element name).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeIDRefKind`

Identifies an attribute-list declaration with an `IDREF` value type (refers to element `ID` type).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeIDRefsKind`

Identifies an attribute-list declaration with an `IDREFS` value type (refers to multiple elements of `ID` type).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeEntityKind`

Identifies an attribute-list declaration with an `ENTITY` value type (refers to unparsed entity declared in document).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeEntitiesKind`

Identifies an attribute-list declaration with an `ENTITIES` value type (refers to multiple unparsed entities declared elsewhere in document).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeNMTOKENKind`

Identifies an attribute-list declaration with a `NMTOKEN` value type (name token).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeNMTOKENSKind`

Identifies an attribute-list declaration with a `NMTOKENS` value type (multiple name tokens)

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeEnumerationKind`

Identifies an attribute-list declaration with an enumeration value type (list of all possible values).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLAttributeNotationKind`

Identifies an attribute-list declaration with a `NOTATION` value type (name of declared notation).

Available in Mac OS X v10.4 and later.

Declared in `NSXMLDTDNode.h`.

`NSXMLElementDeclarationUndefinedKind`
Identifies an undefined element declaration.
Available in Mac OS X v10.4 and later.
Declared in `NSXMLDTDNode.h`.

`NSXMLElementDeclarationEmptyKind`
Identifies a declaration (EMPTY) of an empty element.
Available in Mac OS X v10.4 and later.
Declared in `NSXMLDTDNode.h`.

`NSXMLElementDeclarationAnyKind`
Identifies an ANY element declaration.
Available in Mac OS X v10.4 and later.
Declared in `NSXMLDTDNode.h`.

`NSXMLElementDeclarationMixedKind`
Identifies a declaration of an element with mixed content (`((#PCDATA | child))`).
Available in Mac OS X v10.4 and later.
Declared in `NSXMLDTDNode.h`.

`NSXMLElementDeclarationElementKind`
Identifies a declaration of an element with child elements.
Available in Mac OS X v10.4 and later.
Declared in `NSXMLDTDNode.h`.

Declared In
`NSXMLDTDNode.h`

Document Revision History

This table describes the changes to *NSXMLDTDNode Class Reference*.

Date	Notes
2007-02-27	Added description of typedef NSXMLDTDNodeKind.
2006-05-23	First publication of this content as a separate document.

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