

## HELPER CLASSES

### org.xml.sax.helpers.AttributesImpl

implements org.xml.sax.Attributes

Default implementation of the Attributes interface with the following additional methods.

#### AttributesImpl

Construct a new, empty AttributesImpl object.

```
AttributesImpl()
```

Copy an existing Attributes object.

```
AttributesImpl(Attributes atts)
```

#### addAttribute

Add an attribute to the end of the list.

```
void addAttribute(String uri,
                  String localName, String qName,
                  String type, String value)
```

#### clear

Clear the attribute list for reuse.

```
void clear()
```

#### removeAttribute

Remove an attribute from the list.

```
void removeAttribute(int index)
```

#### setAttribute

Set an attribute in the list.

```
void setAttribute(int index, String uri,
                  String localName, String qName,
                  String type, String value)
```

#### setAttributes

Copy an entire Attributes object.

```
void setAttributes(Attributes atts)
```

#### setLocalName

Set the local name of a specific attribute.

```
void setLocalName(int index, String localName)
```

#### setQName

Set the qualified name of a specific attribute.

```
void setQName(int index, String qName)
```

#### setType

Set the type of a specific attribute.

```
void setType(int index, String type)
```

#### setURI

Set the Namespace URI of a specific attribute.

```
void setURI(int index, String uri)
```

#### setValue

Set the value of a specific attribute.

```
void setValue(int index, String value)
```

### org.xml.sax.helpers.DefaultHandler

implements org.xml.sax.ContentHandler

implements org.xml.sax.DTDHandler

implements org.xml.sax.EntityResolver

implements org.xml.sax.ErrorHandler

Default base class for SAX2 event handlers.

#### DefaultHandler

```
DefaultHandler()
```

### org.xml.sax.helpers.LocatorImpl

implements org.xml.sax.Locator

Provide an optional convenience implementation of Locator with additional methods as follows.

#### setColumnNumber

Set the column number for this locator (1-based).

```
void setColumnNumber(int columnNumber)
```

#### setLineNumber

Set the line number for this locator (1-based).

```
void setLineNumber(int lineNumber)
```

#### setPublicId

Set the public identifier for this locator.

```
void setPublicId(java.lang.String publicId)
```

#### setSystemId

Set the system identifier for this locator.

```
void setSystemId(java.lang.String systemId)
```

### org.xml.sax.helpers.NamespaceSupport

Encapsulate Namespace logic for use by applications using SAX, or internally by SAX drivers.

#### XMLNS

The XML Namespace as a constant.

```
static String XMLNS
```

#### NamespaceSupport

Create a new Namespace support object.

```
NamespaceSupport()
```

#### declarePrefix

Declare a Namespace prefix.

```
boolean declarePrefix(String prefix, String uri)
```

#### getDeclaredPrefixes

Return an enumeration of all prefixes declared in this context.

```
java.util.Enumeration getDeclaredPrefixes()
```

#### getPrefix

Return one of the prefixes mapped to a Namespace URI.

```
String getPrefix(String uri)
```

#### getPrefixes

Return an enumeration of all prefixes currently declared.

```
java.util.Enumeration getPrefixes()
```

Return an enumeration of all prefixes currently declared for a URI.

```
java.util.Enumeration getPrefixes(String uri)
```

#### getURI

Look up a prefix and get the currently-mapped Namespace URI.

```
String getURI(String prefix)
```

#### popContext

Revert to the previous Namespace context.

```
void popContext()
```

#### processName

Process a raw XML 1.0 name.

```
String[] processName(String qName,
                    String[] parts,
                    boolean isAttribute)
```

#### pushContext

Start a new Namespace context.

```
void pushContext()
```

#### reset

Reset this Namespace support object for reuse.

```
void reset()
```

### org.xml.sax.helpers.ParserAdapter

implements org.xml.sax.DocumentHandler (SAX 1)

implements org.xml.sax.XMLReader

Adapt a SAX1 Parser as a SAX2 org.xml.sax.XMLReader.

### org.xml.sax.helpers.XMLFilterImpl

implements org.xml.sax.ContentHandler

implements org.xml.sax.DTDHandler

implements org.xml.sax.EntityResolver

implements org.xml.sax.ErrorHandler

implements org.xml.sax.XMLFilter

implements org.xml.sax.XMLReader

Base class for deriving an XML filter.

#### XMLFilterImpl

Construct an empty XML filter, with no parent.

```
XMLFilterImpl()
```

Construct an XML filter with the specified parent.

```
XMLFilterImpl(XMLReader parent)
```

### org.xml.sax.helpers.XMLReaderAdapter

implements org.xml.sax.ContentHandler

implements org.xml.sax.Parser (SAX 1)

Adapt a SAX2 org.xml.sax.XMLReader as a SAX1 Parser.

### org.xml.sax.helpers.XMLReaderFactory

Factory for creating an org.xml.sax.XMLReader.

#### createXMLReader

Attempt to create an XMLReader from system defaults

```
static XMLReader createXMLReader()
```

Attempt to create an XMLReader from a class name.

```
static XMLReader createXMLReader(String className)
```

## EXTENSION INTERFACES

### org.xml.sax.ext.Attributes2

extends org.xml.sax.Attributes

SAX2 extension to augment the per-attribute information provided though org.xml.sax.Attributes

#### isSpecified

Returns true unless the attribute value was provided by DTD defaulting.

```
boolean isSpecified(int attIndex)
```

Returns true unless the attribute value was provided by DTD defaulting.

```
boolean isSpecified(String qName)
```

Returns true unless the attribute value was provided by DTD defaulting.

```
boolean isSpecified(String namespaceURI, String localName)
```

### org.xml.sax.ext.DeclHandler

SAX2 extension handler for DTD declaration events.

#### attributeDecl

Report an attribute type declaration.

```
void attributeDecl(String elementName,
                  String attributeName,
                  String attributeType,
                  String attributeMode,
                  String defaultValue)
```

---

## elementDecl

Report an element type declaration.

```
void elementDecl(String name, String model)
```

---

## externalEntityDecl

Report a parsed external entity declaration.

```
void externalEntityDecl(String name,  
    String publicId, String systemId)
```

---

## internalEntityDecl

Report an internal entity declaration.

```
void internalEntityDecl(String name, String value)
```

---

## org.xml.sax.ext.EntityResolver2

extends org.xml.sax.EntityResolver

Extended interface for mapping external entity references to input sources, or providing a missing external subset.

---

## getExternalSubset

Allows applications to provide an external subset for documents that don't explicitly define one.

```
InputSource getExternalSubset(String name,  
    String baseURI)
```

---

## resolveEntity

Allows applications to map references to external entities into input sources, or tell the parser it should use conventional URI resolution.

```
InputSource resolveEntity(String name,  
    String publicId,  
    String baseURI,  
    String systemId)
```

---

## org.xml.sax.ext.LexicalHandler

SAX2 extension handler for lexical events.

---

## comment

Report an XML comment anywhere in the document.

```
void comment(char[] characters, int start, int len)
```

---

## endCDATA

Report the end of a CDATA section.

```
void endCDATA()
```

---

## endDTD

Report the end of DTD declarations.

```
void endDTD()
```

---

## endEntity

Report the end of an entity.

```
void endEntity(String name)
```

---

## startCDATA

Report the start of a CDATA section.

```
void startCDATA()
```

---

## startDTD

Report the start of DTD declarations, if any.

```
void startDTD(String name,  
    String publicId, String systemId)
```

---

## startEntity

Report the beginning of some internal and external XML entities.

```
void startEntity(String name)
```

---

## org.xml.sax.ext.Locator2

extends org.xml.sax.Locator

SAX2 extension to augment the entity information provided though org.xml.sax.Locator

---

## getEncoding

Returns the name of the character encoding for the entity.

```
String getEncoding()
```

---

## getXMLVersion

Returns the version of XML used for the entity.

```
String getXMLVersion()
```

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## EXTENSION CLASSES

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## org.xml.sax.ext.Attributes2Impl

extends org.xml.sax.AttributesImpl

implements org.xml.sax.ext.Attributes2

SAX2 extension helper implementing the Attributes2 interface.

---

## Attributes2Impl

```
Attributes2Impl()
```

Copy an existing Attributes or Attributes2 object.

```
Attributes2Impl(Attributes atts)
```

---

## setSpecified

Assign a value to the "specified" flag of a specific attribute.

```
void setSpecified(int index, boolean value)
```

---

## org.xml.sax.ext.DefaultHandler2

extends org.xml.sax.DefaultHandler

implements org.xml.sax.ext.DeclHandler

implements org.xml.sax.ext.EntityResolver2

implements org.xml.sax.ext.LexicalHandler

This class extends the SAX2 base handler class to support the SAX2

LexicalHandler, DeclHandler, and EntityResolver2 extensions

---

## DefaultHandler2

```
DefaultHandler2()
```

---

## resolveEntity

Invokes EntityResolver2.resolveEntity() with null entity name and URI.

```
InputSource resolveEntity(String publicId,  
    String systemId)
```

---

## org.xml.sax.ext.Locator2Impl

extends org.xml.sax.LocatorImpl

implements org.xml.sax.ext.Locator2

SAX2 extension helper for holding additional Entity information,

implementing the Locator2 interface.

---

## Locator2Impl

```
Locator2Impl()
```

Copy an existing Locator or Locator2 object.

```
Locator2Impl(Locator locator)
```

---

## setEncoding

Assigns the current value of the encoding property.

```
void setEncoding(java.lang.String encoding)
```

---

## setXMLVersion

Assigns the current value of the version property.

```
void setXMLVersion(java.lang.String version)
```



# Quick Reference

## Simple API for XML (SAX)

Extensions and Helpers

Version 2 for Java

5 May 2000

<http://www.saxproject.org/>

The interfaces outlined below are taken from the *org.xml.sax.helpers* and *org.xml.sax.ext* packages. The latter is a companion package for SAX 2.0 which SAX drivers won't necessarily support. This quick reference does not include deprecated features.

Table of Contents:

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### Helper Classes

- AttributesImpl
- DefaultHandler
- LocatorImpl
- NamespaceSupport
- ParserAdapter
- XMLFilterImpl
- XMLReaderAdapter
- XMLReaderFactory

### Extension Interfaces

- Attributes2
- DeclHandler
- EntityResolver2
- LexicalHandler
- Locator2

### Extension Classes

- Attributes2Impl
- DefaultHandler2
- Locator2Impl

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