| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Attributes2Impl.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/xml/sax/ext/Attributes2.html)   [**NEXT CLASS**](http://docs.google.com/org/xml/sax/ext/DeclHandler.html) | [**FRAMES**](http://docs.google.com/index.html?org/xml/sax/ext/Attributes2Impl.html)    [**NO FRAMES**](http://docs.google.com/Attributes2Impl.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#3rdcrjn) |

## **org.xml.sax.ext**

Class Attributes2Impl

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [org.xml.sax.helpers.AttributesImpl](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html)  
 **org.xml.sax.ext.Attributes2Impl**

**All Implemented Interfaces:** [Attributes](http://docs.google.com/org/xml/sax/Attributes.html), [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html)

public class **Attributes2Impl**extends [AttributesImpl](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html)implements [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html)

SAX2 extension helper for additional Attributes information, implementing the [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) interface.

*This module, both source code and documentation, is in the Public Domain, and comes with* ***NO WARRANTY****.*

This is not part of core-only SAX2 distributions.

The *specified* flag for each attribute will always be true, unless it has been set to false in the copy constructor or using [setSpecified(int, boolean)](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setSpecified(int,%20boolean)). Similarly, the *declared* flag for each attribute will always be false, except for defaulted attributes (*specified* is false), non-CDATA attributes, or when it is set to true using [setDeclared(int, boolean)](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setDeclared(int,%20boolean)). If you change an attribute's type by hand, you may need to modify its *declared* flag to match.

**Since:** SAX 2.0 (extensions 1.1 alpha)

| **Constructor Summary** | |
| --- | --- |
| [**Attributes2Impl**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#Attributes2Impl())()            Construct a new, empty Attributes2Impl object. |
| [**Attributes2Impl**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#Attributes2Impl(org.xml.sax.Attributes))([Attributes](http://docs.google.com/org/xml/sax/Attributes.html) atts)            Copy an existing Attributes or Attributes2 object. |

| **Method Summary** | |
| --- | --- |
| void | [**addAttribute**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#addAttribute(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) uri, [String](http://docs.google.com/java/lang/String.html) localName, [String](http://docs.google.com/java/lang/String.html) qName, [String](http://docs.google.com/java/lang/String.html) type, [String](http://docs.google.com/java/lang/String.html) value)            Add an attribute to the end of the list, setting its "specified" flag to true. |
| boolean | [**isDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#isDeclared(int))(int index)            Returns the current value of the attribute's "declared" flag. |
| boolean | [**isDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#isDeclared(java.lang.String))([String](http://docs.google.com/java/lang/String.html) qName)            Returns the current value of the attribute's "declared" flag. |
| boolean | [**isDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#isDeclared(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) uri, [String](http://docs.google.com/java/lang/String.html) localName)            Returns the current value of the attribute's "declared" flag. |
| boolean | [**isSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#isSpecified(int))(int index)            Returns the current value of an attribute's "specified" flag. |
| boolean | [**isSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#isSpecified(java.lang.String))([String](http://docs.google.com/java/lang/String.html) qName)            Returns the current value of an attribute's "specified" flag. |
| boolean | [**isSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#isSpecified(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) uri, [String](http://docs.google.com/java/lang/String.html) localName)            Returns the current value of an attribute's "specified" flag. |
| void | [**removeAttribute**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#removeAttribute(int))(int index)            Remove an attribute from the list. |
| void | [**setAttributes**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setAttributes(org.xml.sax.Attributes))([Attributes](http://docs.google.com/org/xml/sax/Attributes.html) atts)            Copy an entire Attributes object. |
| void | [**setDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setDeclared(int,%20boolean))(int index, boolean value)            Assign a value to the "declared" flag of a specific attribute. |
| void | [**setSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setSpecified(int,%20boolean))(int index, boolean value)            Assign a value to the "specified" flag of a specific attribute. |

| **Methods inherited from class org.xml.sax.helpers.**[**AttributesImpl**](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html) |
| --- |
| [clear](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#clear()), [getIndex](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getIndex(java.lang.String)), [getIndex](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getIndex(java.lang.String,%20java.lang.String)), [getLength](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getLength()), [getLocalName](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getLocalName(int)), [getQName](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getQName(int)), [getType](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getType(int)), [getType](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getType(java.lang.String)), [getType](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getType(java.lang.String,%20java.lang.String)), [getURI](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getURI(int)), [getValue](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getValue(int)), [getValue](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getValue(java.lang.String)), [getValue](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#getValue(java.lang.String,%20java.lang.String)), [setAttribute](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setAttribute(int,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String)), [setLocalName](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setLocalName(int,%20java.lang.String)), [setQName](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setQName(int,%20java.lang.String)), [setType](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setType(int,%20java.lang.String)), [setURI](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setURI(int,%20java.lang.String)), [setValue](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setValue(int,%20java.lang.String)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Methods inherited from interface org.xml.sax.**[**Attributes**](http://docs.google.com/org/xml/sax/Attributes.html) |
| --- |
| [getIndex](http://docs.google.com/org/xml/sax/Attributes.html#getIndex(java.lang.String)), [getIndex](http://docs.google.com/org/xml/sax/Attributes.html#getIndex(java.lang.String,%20java.lang.String)), [getLength](http://docs.google.com/org/xml/sax/Attributes.html#getLength()), [getLocalName](http://docs.google.com/org/xml/sax/Attributes.html#getLocalName(int)), [getQName](http://docs.google.com/org/xml/sax/Attributes.html#getQName(int)), [getType](http://docs.google.com/org/xml/sax/Attributes.html#getType(int)), [getType](http://docs.google.com/org/xml/sax/Attributes.html#getType(java.lang.String)), [getType](http://docs.google.com/org/xml/sax/Attributes.html#getType(java.lang.String,%20java.lang.String)), [getURI](http://docs.google.com/org/xml/sax/Attributes.html#getURI(int)), [getValue](http://docs.google.com/org/xml/sax/Attributes.html#getValue(int)), [getValue](http://docs.google.com/org/xml/sax/Attributes.html#getValue(java.lang.String)), [getValue](http://docs.google.com/org/xml/sax/Attributes.html#getValue(java.lang.String,%20java.lang.String)) |

| **Constructor Detail** |
| --- |

### Attributes2Impl

public **Attributes2Impl**()

Construct a new, empty Attributes2Impl object.

### Attributes2Impl

public **Attributes2Impl**([Attributes](http://docs.google.com/org/xml/sax/Attributes.html) atts)

Copy an existing Attributes or Attributes2 object. If the object implements Attributes2, values of the *specified* and *declared* flags for each attribute are copied. Otherwise the flag values are defaulted to assume no DTD was used, unless there is evidence to the contrary (such as attributes with type other than CDATA, which must have been *declared*).

This constructor is especially useful inside a [startElement](http://docs.google.com/org/xml/sax/ContentHandler.html#startElement(java.lang.String,%20java.lang.String,%20java.lang.String,%20org.xml.sax.Attributes)) event.

**Parameters:**atts - The existing Attributes object.

| **Method Detail** |
| --- |

### isDeclared

public boolean **isDeclared**(int index)

Returns the current value of the attribute's "declared" flag.

**Specified by:**[isDeclared](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isDeclared(int)) in interface [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) **Parameters:**index - The attribute index (zero-based). **Returns:**true if the attribute was declared in the DTD, false otherwise.

### isDeclared

public boolean **isDeclared**([String](http://docs.google.com/java/lang/String.html) uri,  
 [String](http://docs.google.com/java/lang/String.html) localName)

Returns the current value of the attribute's "declared" flag.

**Specified by:**[isDeclared](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isDeclared(java.lang.String,%20java.lang.String)) in interface [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) **Parameters:**uri - The Namespace URI, or the empty string if the name has no Namespace URI.localName - The attribute's local name. **Returns:**true if the attribute was declared in the DTD, false otherwise.

### isDeclared

public boolean **isDeclared**([String](http://docs.google.com/java/lang/String.html) qName)

Returns the current value of the attribute's "declared" flag.

**Specified by:**[isDeclared](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isDeclared(java.lang.String)) in interface [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) **Parameters:**qName - The XML qualified (prefixed) name. **Returns:**true if the attribute was declared in the DTD, false otherwise.

### isSpecified

public boolean **isSpecified**(int index)

Returns the current value of an attribute's "specified" flag.

**Specified by:**[isSpecified](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isSpecified(int)) in interface [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) **Parameters:**index - The attribute index (zero-based). **Returns:**current flag value **Throws:** [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - When the supplied index does not identify an attribute.

### isSpecified

public boolean **isSpecified**([String](http://docs.google.com/java/lang/String.html) uri,  
 [String](http://docs.google.com/java/lang/String.html) localName)

Returns the current value of an attribute's "specified" flag.

**Specified by:**[isSpecified](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isSpecified(java.lang.String,%20java.lang.String)) in interface [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) **Parameters:**uri - The Namespace URI, or the empty string if the name has no Namespace URI.localName - The attribute's local name. **Returns:**current flag value **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - When the supplied names do not identify an attribute.

### isSpecified

public boolean **isSpecified**([String](http://docs.google.com/java/lang/String.html) qName)

Returns the current value of an attribute's "specified" flag.

**Specified by:**[isSpecified](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isSpecified(java.lang.String)) in interface [Attributes2](http://docs.google.com/org/xml/sax/ext/Attributes2.html) **Parameters:**qName - The XML qualified (prefixed) name. **Returns:**current flag value **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - When the supplied name does not identify an attribute.

### setAttributes

public void **setAttributes**([Attributes](http://docs.google.com/org/xml/sax/Attributes.html) atts)

Copy an entire Attributes object. The "specified" flags are assigned as true, and "declared" flags as false (except when an attribute's type is not CDATA), unless the object is an Attributes2 object. In that case those flag values are all copied.

**Overrides:**[setAttributes](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setAttributes(org.xml.sax.Attributes)) in class [AttributesImpl](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html) **Parameters:**atts - The attributes to copy.**See Also:**[AttributesImpl.setAttributes(org.xml.sax.Attributes)](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setAttributes(org.xml.sax.Attributes))

### addAttribute

public void **addAttribute**([String](http://docs.google.com/java/lang/String.html) uri,  
 [String](http://docs.google.com/java/lang/String.html) localName,  
 [String](http://docs.google.com/java/lang/String.html) qName,  
 [String](http://docs.google.com/java/lang/String.html) type,  
 [String](http://docs.google.com/java/lang/String.html) value)

Add an attribute to the end of the list, setting its "specified" flag to true. To set that flag's value to false, use [setSpecified(int, boolean)](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setSpecified(int,%20boolean)).

Unless the attribute *type* is CDATA, this attribute is marked as being declared in the DTD. To set that flag's value to true for CDATA attributes, use [setDeclared(int, boolean)](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html#setDeclared(int,%20boolean)).

**Overrides:**[addAttribute](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#addAttribute(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String)) in class [AttributesImpl](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html) **Parameters:**uri - The Namespace URI, or the empty string if none is available or Namespace processing is not being performed.localName - The local name, or the empty string if Namespace processing is not being performed.qName - The qualified (prefixed) name, or the empty string if qualified names are not available.type - The attribute type as a string.value - The attribute value.**See Also:**[AttributesImpl.addAttribute(java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String)](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#addAttribute(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))

### removeAttribute

public void **removeAttribute**(int index)

**Description copied from class:** [**AttributesImpl**](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#removeAttribute(int)) Remove an attribute from the list.

**Overrides:**[removeAttribute](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#removeAttribute(int)) in class [AttributesImpl](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html) **Parameters:**index - The index of the attribute (zero-based).

### setDeclared

public void **setDeclared**(int index,  
 boolean value)

Assign a value to the "declared" flag of a specific attribute. This is normally needed only for attributes of type CDATA, including attributes whose type is changed to or from CDATA.

**Parameters:**index - The index of the attribute (zero-based).value - The desired flag value. **Throws:** [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - When the supplied index does not identify an attribute.**See Also:**[AttributesImpl.setType(int, java.lang.String)](http://docs.google.com/org/xml/sax/helpers/AttributesImpl.html#setType(int,%20java.lang.String))

### setSpecified

public void **setSpecified**(int index,  
 boolean value)

Assign a value to the "specified" flag of a specific attribute. This is the only way this flag can be cleared, except clearing by initialization with the copy constructor.

**Parameters:**index - The index of the attribute (zero-based).value - The desired flag value. **Throws:** [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - When the supplied index does not identify an attribute.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Attributes2Impl.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/xml/sax/ext/Attributes2.html)   [**NEXT CLASS**](http://docs.google.com/org/xml/sax/ext/DeclHandler.html) | [**FRAMES**](http://docs.google.com/index.html?org/xml/sax/ext/Attributes2Impl.html)    [**NO FRAMES**](http://docs.google.com/Attributes2Impl.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#3rdcrjn) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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