| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Attributes2.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   [**NEXT CLASS**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html) | [**FRAMES**](http://docs.google.com/index.html?org/xml/sax/ext/Attributes2.html)    [**NO FRAMES**](http://docs.google.com/Attributes2.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

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

Interface Attributes2

**All Superinterfaces:** [Attributes](http://docs.google.com/org/xml/sax/Attributes.html) **All Known Implementing Classes:** [Attributes2Impl](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html)

public interface **Attributes2**extends [Attributes](http://docs.google.com/org/xml/sax/Attributes.html)

SAX2 extension to augment the per-attribute information provided though [Attributes](http://docs.google.com/org/xml/sax/Attributes.html). If an implementation supports this extension, the attributes provided in [ContentHandler.startElement()](http://docs.google.com/org/xml/sax/ContentHandler.html#startElement(java.lang.String,%20java.lang.String,%20java.lang.String,%20org.xml.sax.Attributes))  will implement this interface, and the *http://xml.org/sax/features/use-attributes2* feature flag will have the value *true*.

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XMLReader implementations are not required to support this information, and it is not part of core-only SAX2 distributions.

Note that if an attribute was defaulted (*!isSpecified()*) it will of necessity also have been declared (*isDeclared()*) in the DTD. Similarly if an attribute's type is anything except CDATA, then it must have been declared.

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

| **Method Summary** | |
| --- | --- |
| boolean | [**isDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isDeclared(int))(int index)            Returns false unless the attribute was declared in the DTD. |
| boolean | [**isDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isDeclared(java.lang.String))([String](http://docs.google.com/java/lang/String.html) qName)            Returns false unless the attribute was declared in the DTD. |
| boolean | [**isDeclared**](http://docs.google.com/org/xml/sax/ext/Attributes2.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 false unless the attribute was declared in the DTD. |
| boolean | [**isSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isSpecified(int))(int index)            Returns true unless the attribute value was provided by DTD defaulting. |
| boolean | [**isSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2.html#isSpecified(java.lang.String))([String](http://docs.google.com/java/lang/String.html) qName)            Returns true unless the attribute value was provided by DTD defaulting. |
| boolean | [**isSpecified**](http://docs.google.com/org/xml/sax/ext/Attributes2.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 true unless the attribute value was provided by DTD defaulting. |

| **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)) |

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

### isDeclared

boolean **isDeclared**(int index)

Returns false unless the attribute was declared in the DTD. This helps distinguish two kinds of attributes that SAX reports as CDATA: ones that were declared (and hence are usually valid), and those that were not (and which are never valid).

**Parameters:**index - The attribute index (zero-based). **Returns:**true if the attribute was declared in the DTD, false otherwise. **Throws:** [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - When the supplied index does not identify an attribute.

### isDeclared

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

Returns false unless the attribute was declared in the DTD. This helps distinguish two kinds of attributes that SAX reports as CDATA: ones that were declared (and hence are usually valid), and those that were not (and which are never valid).

**Parameters:**qName - The XML qualified (prefixed) name. **Returns:**true if the attribute was declared in the DTD, false otherwise. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - When the supplied name does not identify an attribute.

### isDeclared

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

Returns false unless the attribute was declared in the DTD. This helps distinguish two kinds of attributes that SAX reports as CDATA: ones that were declared (and hence are usually valid), and those that were not (and which are never valid).

Remember that since DTDs do not "understand" namespaces, the namespace URI associated with an attribute may not have come from the DTD. The declaration will have applied to the attribute's *qName*.

**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. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - When the supplied names do not identify an attribute.

### isSpecified

boolean **isSpecified**(int index)

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

**Parameters:**index - The attribute index (zero-based). **Returns:**true if the value was found in the XML text, false if the value was provided by DTD defaulting. **Throws:** [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - When the supplied index does not identify an attribute.

### isSpecified

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

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

Remember that since DTDs do not "understand" namespaces, the namespace URI associated with an attribute may not have come from the DTD. The declaration will have applied to the attribute's *qName*.

**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 value was found in the XML text, false if the value was provided by DTD defaulting. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - When the supplied names do not identify an attribute.

### isSpecified

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

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

**Parameters:**qName - The XML qualified (prefixed) name. **Returns:**true if the value was found in the XML text, false if the value was provided by DTD defaulting. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - When the supplied name 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/Attributes2.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   [**NEXT CLASS**](http://docs.google.com/org/xml/sax/ext/Attributes2Impl.html) | [**FRAMES**](http://docs.google.com/index.html?org/xml/sax/ext/Attributes2.html)    [**NO FRAMES**](http://docs.google.com/Attributes2.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[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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