| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JAXBElement.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/javax/xml/bind/JAXBContext.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/bind/JAXBElement.GlobalScope.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/bind/JAXBElement.html)    [**NO FRAMES**](http://docs.google.com/JAXBElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#35nkun2) | [METHOD](#3j2qqm3) |

## **javax.xml.bind**

Class JAXBElement<T>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.xml.bind.JAXBElement<T>**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **JAXBElement<T>**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

JAXB representation of an Xml Element.

This class represents information about an Xml Element from both the element declaration within a schema and the element instance value within an xml document with the following properties

* element's xml tag **name**
* **value** represents the element instance's atttribute(s) and content model
* element declaration's **declaredType** (xs:element @type attribute)
* **scope** of element declaration
* boolean **nil** property. (element instance's **xsi:nil** attribute)

The declaredType and scope property are the JAXB class binding for the xml type definition.

**Scope** is either [JAXBElement.GlobalScope](http://docs.google.com/javax/xml/bind/JAXBElement.GlobalScope.html) or the Java class representing the complex type definition containing the schema element declaration.

There is a property constraint that if **value** is null, then nil must be true. The converse is not true to enable representing a nil element with attribute(s). If nil is true, it is possible that value is non-null so it can hold the value of the attributes associated with a nil element.

**Since:** JAXB 2.0 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.xml.bind.JAXBElement)

| **Nested Class Summary** | |
| --- | --- |
| static class | [**JAXBElement.GlobalScope**](http://docs.google.com/javax/xml/bind/JAXBElement.GlobalScope.html)            Designates global scope for an xml element. |

| **Field Summary** | |
| --- | --- |
| protected  [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> | [**declaredType**](http://docs.google.com/javax/xml/bind/JAXBElement.html#declaredType)            Java datatype binding for xml element declaration's type. |
| protected  [QName](http://docs.google.com/javax/xml/namespace/QName.html) | [**name**](http://docs.google.com/javax/xml/bind/JAXBElement.html#name)            xml element tag name |
| protected  boolean | [**nil**](http://docs.google.com/javax/xml/bind/JAXBElement.html#nil)            true iff the xml element instance has xsi:nil="true". |
| protected  [Class](http://docs.google.com/java/lang/Class.html) | [**scope**](http://docs.google.com/javax/xml/bind/JAXBElement.html#scope)            Scope of xml element declaration representing this xml element instance. |
| protected  [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) | [**value**](http://docs.google.com/javax/xml/bind/JAXBElement.html#value)            xml element value. |

| **Constructor Summary** | |
| --- | --- |
| [**JAXBElement**](http://docs.google.com/javax/xml/bind/JAXBElement.html#JAXBElement(javax.xml.namespace.QName,%20java.lang.Class,%20java.lang.Class,%20T))([QName](http://docs.google.com/javax/xml/namespace/QName.html) name, [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> declaredType, [Class](http://docs.google.com/java/lang/Class.html) scope, [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) value)            Construct an xml element instance. |
| [**JAXBElement**](http://docs.google.com/javax/xml/bind/JAXBElement.html#JAXBElement(javax.xml.namespace.QName,%20java.lang.Class,%20T))([QName](http://docs.google.com/javax/xml/namespace/QName.html) name, [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> declaredType, [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) value)            Construct an xml element instance. |

| **Method Summary** | |
| --- | --- |
| [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> | [**getDeclaredType**](http://docs.google.com/javax/xml/bind/JAXBElement.html#getDeclaredType())()            Returns the Java binding of the xml element declaration's type attribute. |
| [QName](http://docs.google.com/javax/xml/namespace/QName.html) | [**getName**](http://docs.google.com/javax/xml/bind/JAXBElement.html#getName())()            Returns the xml element tag name. |
| [Class](http://docs.google.com/java/lang/Class.html) | [**getScope**](http://docs.google.com/javax/xml/bind/JAXBElement.html#getScope())()            Returns scope of xml element declaration. |
| [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) | [**getValue**](http://docs.google.com/javax/xml/bind/JAXBElement.html#getValue())()            Return the content model and attribute values for this element. |
| boolean | [**isGlobalScope**](http://docs.google.com/javax/xml/bind/JAXBElement.html#isGlobalScope())()            Returns true iff this xml element declaration is global. |
| boolean | [**isNil**](http://docs.google.com/javax/xml/bind/JAXBElement.html#isNil())()            Returns true iff this element instance content model is nil. |
| boolean | [**isTypeSubstituted**](http://docs.google.com/javax/xml/bind/JAXBElement.html#isTypeSubstituted())()            Returns true iff this xml element instance's value has a different type than xml element declaration's declared type. |
| void | [**setNil**](http://docs.google.com/javax/xml/bind/JAXBElement.html#setNil(boolean))(boolean value)            Set whether this element has nil content. |
| void | [**setValue**](http://docs.google.com/javax/xml/bind/JAXBElement.html#setValue(T))([T](http://docs.google.com/javax/xml/bind/JAXBElement.html) t)            Set the content model and attributes of this xml element. |

| **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)) |

| **Field Detail** |
| --- |

### name

protected final [QName](http://docs.google.com/javax/xml/namespace/QName.html) **name**

xml element tag name

### declaredType

protected final [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> **declaredType**

Java datatype binding for xml element declaration's type.

### scope

protected final [Class](http://docs.google.com/java/lang/Class.html) **scope**

Scope of xml element declaration representing this xml element instance. Can be one of the following values: - [JAXBElement.GlobalScope](http://docs.google.com/javax/xml/bind/JAXBElement.GlobalScope.html) for global xml element declaration. - local element declaration has a scope set to the Java class representation of complex type defintion containing xml element declaration.

### value

protected [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) **value**

xml element value. Represents content model and attributes of an xml element instance.

### nil

protected boolean **nil**

true iff the xml element instance has xsi:nil="true".

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

### JAXBElement

public **JAXBElement**([QName](http://docs.google.com/javax/xml/namespace/QName.html) name,  
 [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> declaredType,  
 [Class](http://docs.google.com/java/lang/Class.html) scope,  
 [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) value)

Construct an xml element instance.

**Parameters:**name - Java binding of xml element tag namedeclaredType - Java binding of xml element declaration's typescope - Java binding of scope of xml element declaration. Passing null is the same as passing GlobalScope.classvalue - Java instance representing xml element's value.**See Also:**[getScope()](http://docs.google.com/javax/xml/bind/JAXBElement.html#getScope()), [isTypeSubstituted()](http://docs.google.com/javax/xml/bind/JAXBElement.html#isTypeSubstituted())

### JAXBElement

public **JAXBElement**([QName](http://docs.google.com/javax/xml/namespace/QName.html) name,  
 [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> declaredType,  
 [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) value)

Construct an xml element instance. This is just a convenience method for new JAXBElement(name,declaredType,GlobalScope.class,value)

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

### getDeclaredType

public [Class](http://docs.google.com/java/lang/Class.html)<[T](http://docs.google.com/javax/xml/bind/JAXBElement.html)> **getDeclaredType**()

Returns the Java binding of the xml element declaration's type attribute.

### getName

public [QName](http://docs.google.com/javax/xml/namespace/QName.html) **getName**()

Returns the xml element tag name.

### setValue

public void **setValue**([T](http://docs.google.com/javax/xml/bind/JAXBElement.html) t)

Set the content model and attributes of this xml element.

When this property is set to null, isNil() must by true. Details of constraint are described at [isNil()](http://docs.google.com/javax/xml/bind/JAXBElement.html#isNil()).

**See Also:**[isTypeSubstituted()](http://docs.google.com/javax/xml/bind/JAXBElement.html#isTypeSubstituted())

### getValue

public [T](http://docs.google.com/javax/xml/bind/JAXBElement.html) **getValue**()

Return the content model and attribute values for this element.

See [isNil()](http://docs.google.com/javax/xml/bind/JAXBElement.html#isNil()) for a description of a property constraint when this value is null

### getScope

public [Class](http://docs.google.com/java/lang/Class.html) **getScope**()

Returns scope of xml element declaration.

**Returns:**GlobalScope.class if this element is of global scope.**See Also:**[isGlobalScope()](http://docs.google.com/javax/xml/bind/JAXBElement.html#isGlobalScope())

### isNil

public boolean **isNil**()

Returns true iff this element instance content model is nil.

This property always returns true when [getValue()](http://docs.google.com/javax/xml/bind/JAXBElement.html#getValue()) is null. Note that the converse is not true, when this property is true, [getValue()](http://docs.google.com/javax/xml/bind/JAXBElement.html#getValue()) can contain a non-null value for attribute(s). It is valid for a nil xml element to have attribute(s).

### setNil

public void **setNil**(boolean value)

Set whether this element has nil content.

**See Also:**[isNil()](http://docs.google.com/javax/xml/bind/JAXBElement.html#isNil())

### isGlobalScope

public boolean **isGlobalScope**()

Returns true iff this xml element declaration is global.

### isTypeSubstituted

public boolean **isTypeSubstituted**()

Returns true iff this xml element instance's value has a different type than xml element declaration's declared type.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JAXBElement.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/javax/xml/bind/JAXBContext.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/bind/JAXBElement.GlobalScope.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/bind/JAXBElement.html)    [**NO FRAMES**](http://docs.google.com/JAXBElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#35nkun2) | [METHOD](#3j2qqm3) |

[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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