| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XmlElement.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/annotation/XmlAttribute.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.DEFAULT.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/bind/annotation/XmlElement.html)    [**NO FRAMES**](http://docs.google.com/XmlElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: REQUIRED | [OPTIONAL](#3znysh7) | DETAIL: [ELEMENT](#lnxbz9) |

## **javax.xml.bind.annotation**

Annotation Type XmlElement

[@Retention](http://docs.google.com/java/lang/annotation/Retention.html)([value](http://docs.google.com/java/lang/annotation/Retention.html#value())=[RUNTIME](http://docs.google.com/java/lang/annotation/RetentionPolicy.html#RUNTIME))  
[@Target](http://docs.google.com/java/lang/annotation/Target.html)([value](http://docs.google.com/java/lang/annotation/Target.html#value())={[FIELD](http://docs.google.com/java/lang/annotation/ElementType.html#FIELD),[METHOD](http://docs.google.com/java/lang/annotation/ElementType.html#METHOD)})  
public @interface **XmlElement**

Maps a JavaBean property to a XML element derived from property name.

**Usage**

@XmlElement annotation can be used with the following program elements:

* a JavaBean property
* non static, non transient field
* within [XmlElements](http://docs.google.com/javax/xml/bind/annotation/XmlElements.html)

The usage is subject to the following constraints:

* This annotation can be used with following annotations: [XmlID](http://docs.google.com/javax/xml/bind/annotation/XmlID.html), [XmlIDREF](http://docs.google.com/javax/xml/bind/annotation/XmlIDREF.html), [XmlList](http://docs.google.com/javax/xml/bind/annotation/XmlList.html), [XmlSchemaType](http://docs.google.com/javax/xml/bind/annotation/XmlSchemaType.html), [XmlValue](http://docs.google.com/javax/xml/bind/annotation/XmlValue.html), [XmlAttachmentRef](http://docs.google.com/javax/xml/bind/annotation/XmlAttachmentRef.html), [XmlMimeType](http://docs.google.com/javax/xml/bind/annotation/XmlMimeType.html), [XmlInlineBinaryData](http://docs.google.com/javax/xml/bind/annotation/XmlInlineBinaryData.html), [XmlElementWrapper](http://docs.google.com/javax/xml/bind/annotation/XmlElementWrapper.html), [XmlJavaTypeAdapter](http://docs.google.com/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.html)
* if the type of JavaBean property is a collection type of array, an indexed property, or a parameterized list, and this annotation is used with [XmlElements](http://docs.google.com/javax/xml/bind/annotation/XmlElements.html) then, @XmlElement.type() must be DEFAULT.class since the collection item type is already known.

A JavaBean property, when annotated with @XmlElement annotation is mapped to a local element in the XML Schema complex type to which the containing class is mapped.

**Example 1:**  Map a public non static non final field to local element

//Example: Code fragment  
 public class USPrice {  
 @XmlElement(name="itemprice")  
 public java.math.BigDecimal price;  
 }  
  
 <!-- Example: Local XML Schema element -->  
 <xs:complexType name="USPrice"/>  
 <xs:sequence>  
 <xs:element name="itemprice" type="xs:decimal" minOccurs="0"/>  
 </sequence>  
 </xs:complexType>

**Example 2:**  Map a field to a nillable element.

//Example: Code fragment  
 public class USPrice {  
 @XmlElement(nillable=true)  
 public java.math.BigDecimal price;  
 }  
  
 <!-- Example: Local XML Schema element -->  
 <xs:complexType name="USPrice">  
 <xs:sequence>  
 <xs:element name="price" type="xs:decimal" nillable="true" minOccurs="0"/>  
 </sequence>  
 </xs:complexType>

**Example 3:**  Map a field to a nillable, required element.

//Example: Code fragment  
 public class USPrice {  
 @XmlElement(nillable=true, required=true)  
 public java.math.BigDecimal price;  
 }  
  
 <!-- Example: Local XML Schema element -->  
 <xs:complexType name="USPrice">  
 <xs:sequence>  
 <xs:element name="price" type="xs:decimal" nillable="true" minOccurs="1"/>  
 </sequence>  
 </xs:complexType>

**Example 4:** Map a JavaBean property to an XML element with anonymous type.

See Example 6 in @[XmlType](http://docs.google.com/javax/xml/bind/annotation/XmlType.html).

**Since:** JAXB2.0

| **Optional Element Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**defaultValue**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html#defaultValue())            Default value of this element. |
| [String](http://docs.google.com/java/lang/String.html) | [**name**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html#name())            Name of the XML Schema element. |
| [String](http://docs.google.com/java/lang/String.html) | [**namespace**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html#namespace())            XML target namespace of the XML Schema element. |
| boolean | [**nillable**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html#nillable())            Customize the element declaration to be nillable. |
| boolean | [**required**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html#required())            Customize the element declaration to be required. |
| [Class](http://docs.google.com/java/lang/Class.html) | [**type**](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html#type())            The Java class being referenced. |

### name

public abstract [String](http://docs.google.com/java/lang/String.html) **name**

Name of the XML Schema element.

If the value is "##default", then element name is derived from the JavaBean property name.

**Default:**"##default"

### nillable

public abstract boolean **nillable**

Customize the element declaration to be nillable.

If nillable() is true, then the JavaBean property is mapped to a XML Schema nillable element declaration.

**Default:**false

### required

public abstract boolean **required**

Customize the element declaration to be required.

If required() is true, then Javabean property is mapped to an XML schema element declaration with minOccurs="1". maxOccurs is "1" for a single valued property and "unbounded" for a multivalued property.

If required() is false, then the Javabean property is mapped to XML Schema element declaration with minOccurs="0". maxOccurs is "1" for a single valued property and "unbounded" for a multivalued property.

**Default:**false

### namespace

public abstract [String](http://docs.google.com/java/lang/String.html) **namespace**

XML target namespace of the XML Schema element.

If the value is "##default", then the namespace is determined as follows:

1. If the enclosing package has [XmlSchema](http://docs.google.com/javax/xml/bind/annotation/XmlSchema.html) annotation, and its [elementFormDefault](http://docs.google.com/javax/xml/bind/annotation/XmlSchema.html#elementFormDefault()) is [QUALIFIED](http://docs.google.com/javax/xml/bind/annotation/XmlNsForm.html#QUALIFIED), then the namespace of the enclosing class.
2. Otherwise "" (which produces unqualified element in the default namespace.

**Default:**"##default"

### defaultValue

public abstract [String](http://docs.google.com/java/lang/String.html) **defaultValue**

Default value of this element.

The '�' value specified as a default of this annotation element is used as a poor-man's substitute for null to allow implementations to recognize the 'no default value' state.

**Default:**"\u0000"

### type

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

The Java class being referenced.

**Default:**javax.xml.bind.annotation.XmlElement.DEFAULT.class

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XmlElement.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*** |
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[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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