| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XmlElements.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/XmlElementRefs.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/bind/annotation/XmlElementWrapper.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/bind/annotation/XmlElements.html)    [**NO FRAMES**](http://docs.google.com/XmlElements.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [REQUIRED](#3znysh7) | OPTIONAL | DETAIL: [ELEMENT](#2et92p0) |

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

Annotation Type XmlElements

[@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 **XmlElements**

A container for multiple @[XmlElement](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html) annotations. Multiple annotations of the same type are not allowed on a program element. This annotation therefore serves as a container annotation for multiple @XmlElements as follows:

@XmlElements({ @XmlElement(...),@XmlElement(...) })

The @XmlElements annnotation can be used with the following program elements:

* a JavaBean property
* non static, non transient field

This annotation is intended for annotation a JavaBean collection property (e.g. List).

**Usage**

The usage is subject to the following constraints:

* This annotation can be used with the following annotations: @[XmlIDREF](http://docs.google.com/javax/xml/bind/annotation/XmlIDREF.html), @[XmlElementWrapper](http://docs.google.com/javax/xml/bind/annotation/XmlElementWrapper.html).
* If @XmlIDREF is also specified on the JavaBean property, then each @XmlElement.type() must contain a JavaBean property annotated with @XmlID.

See "Package Specification" in javax.xml.bind.package javadoc for additional common information.

**Example 1:** Map to a list of elements

// Mapped code fragment  
 public class Foo {  
 @XmlElements(  
 @XmlElement(name="A", type=Integer.class),  
 @XmlElement(name="B", type=Float.class)  
 }  
 public List items;  
 }  
  
 <!-- XML Representation for a List of {1,2.5}   
 XML output is not wrapped using another element -->  
 ...  
 1   
  **2.5**   
 ...  
  
 <!-- XML Schema fragment -->  
 <xs:complexType name="Foo">  
 <xs:sequence>  
 <xs:choice minOccurs="0" maxOccurs="unbounded">  
 <xs:element name="A" type="xs:int"/>  
 <xs:element name="B" type="xs:float"/>  
 <xs:choice>  
 </xs:sequence>  
 </xs:complexType>

**Example 2:** Map to a list of elements wrapped with another element

// Mapped code fragment  
 public class Foo {  
 @XmlElementWrapper(name="bar")  
 @XmlElements(  
 @XmlElement(name="A", type=Integer.class),  
 @XmlElement(name="B", type=Float.class)  
 }  
 public List items;  
 }  
  
 <!-- XML Schema fragment -->  
 <xs:complexType name="Foo">  
 <xs:sequence>  
 <xs:element name="bar">  
 <xs:complexType>  
 <xs:choice minOccurs="0" maxOccurs="unbounded">  
 <xs:element name="A" type="xs:int"/>  
 <xs:element name="B" type="xs:float"/>  
 </xs:choice>  
 </xs:complexType>  
 </xs:element>  
 </xs:sequence>  
 </xs:complexType>

**Example 3:** Change element name based on type using an adapter.

class Foo {  
 @XmlJavaTypeAdapter(QtoPAdapter.class)  
 @XmlElements({  
 @XmlElement(name="A",type=PX.class),  
 @XmlElement(name="B",type=PY.class)  
 })  
 Q bar;  
 }  
   
 @XmlType abstract class P {...}  
 @XmlType(name="PX") class PX extends P {...}  
 @XmlType(name="PY") class PY extends P {...}  
  
 <!-- XML Schema fragment -->  
 <xs:complexType name="Foo">  
 <xs:sequence>  
 <xs:element name="bar">  
 <xs:complexType>  
 <xs:choice minOccurs="0" maxOccurs="unbounded">  
 <xs:element name="A" type="PX"/>  
 <xs:element name="B" type="PY"/>  
 </xs:choice>  
 </xs:complexType>  
 </xs:element>  
 </xs:sequence>  
 </xs:complexType>

**Since:** JAXB2.0 **See Also:**[XmlElement](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html), [XmlElementRef](http://docs.google.com/javax/xml/bind/annotation/XmlElementRef.html), [XmlElementRefs](http://docs.google.com/javax/xml/bind/annotation/XmlElementRefs.html), [XmlJavaTypeAdapter](http://docs.google.com/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.html)

| **Required Element Summary** | |
| --- | --- |
| [XmlElement](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html)[] | [**value**](http://docs.google.com/javax/xml/bind/annotation/XmlElements.html#value())            Collection of @[XmlElement](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html) annotations |

| **Element Detail** |
| --- |

### value

public abstract [XmlElement](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html)[] **value**

Collection of @[XmlElement](http://docs.google.com/javax/xml/bind/annotation/XmlElement.html) annotations

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XmlElements.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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| SUMMARY: [REQUIRED](#3znysh7) | OPTIONAL | DETAIL: [ELEMENT](#2et92p0) |

[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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