| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/IndexedPropertyDescriptor.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/java/beans/IndexedPropertyChangeEvent.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/IntrospectionException.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/IndexedPropertyDescriptor.html)    [**NO FRAMES**](http://docs.google.com/IndexedPropertyDescriptor.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#26in1rg) |

## **java.beans**

Class IndexedPropertyDescriptor

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.beans.FeatureDescriptor](http://docs.google.com/java/beans/FeatureDescriptor.html)  
 [java.beans.PropertyDescriptor](http://docs.google.com/java/beans/PropertyDescriptor.html)  
 **java.beans.IndexedPropertyDescriptor**

public class **IndexedPropertyDescriptor**extends [PropertyDescriptor](http://docs.google.com/java/beans/PropertyDescriptor.html)

An IndexedPropertyDescriptor describes a property that acts like an array and has an indexed read and/or indexed write method to access specific elements of the array.

An indexed property may also provide simple non-indexed read and write methods. If these are present, they read and write arrays of the type returned by the indexed read method.

| **Constructor Summary** | |
| --- | --- |
| [**IndexedPropertyDescriptor**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#IndexedPropertyDescriptor(java.lang.String,%20java.lang.Class))([String](http://docs.google.com/java/lang/String.html) propertyName, [Class](http://docs.google.com/java/lang/Class.html)<?> beanClass)            This constructor constructs an IndexedPropertyDescriptor for a property that follows the standard Java conventions by having getFoo and setFoo accessor methods, for both indexed access and array access. |
| [**IndexedPropertyDescriptor**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#IndexedPropertyDescriptor(java.lang.String,%20java.lang.Class,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) propertyName, [Class](http://docs.google.com/java/lang/Class.html)<?> beanClass, [String](http://docs.google.com/java/lang/String.html) readMethodName, [String](http://docs.google.com/java/lang/String.html) writeMethodName, [String](http://docs.google.com/java/lang/String.html) indexedReadMethodName, [String](http://docs.google.com/java/lang/String.html) indexedWriteMethodName)            This constructor takes the name of a simple property, and method names for reading and writing the property, both indexed and non-indexed. |
| [**IndexedPropertyDescriptor**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#IndexedPropertyDescriptor(java.lang.String,%20java.lang.reflect.Method,%20java.lang.reflect.Method,%20java.lang.reflect.Method,%20java.lang.reflect.Method))([String](http://docs.google.com/java/lang/String.html) propertyName, [Method](http://docs.google.com/java/lang/reflect/Method.html) readMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) writeMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) indexedReadMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) indexedWriteMethod)            This constructor takes the name of a simple property, and Method objects for reading and writing the property. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Compares this PropertyDescriptor against the specified object. |
| [Class](http://docs.google.com/java/lang/Class.html)<?> | [**getIndexedPropertyType**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#getIndexedPropertyType())()            Gets the Class object of the indexed properties' type. |
| [Method](http://docs.google.com/java/lang/reflect/Method.html) | [**getIndexedReadMethod**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#getIndexedReadMethod())()            Gets the method that should be used to read an indexed property value. |
| [Method](http://docs.google.com/java/lang/reflect/Method.html) | [**getIndexedWriteMethod**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#getIndexedWriteMethod())()            Gets the method that should be used to write an indexed property value. |
| int | [**hashCode**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#hashCode())()            Returns a hash code value for the object. |
| void | [**setIndexedReadMethod**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#setIndexedReadMethod(java.lang.reflect.Method))([Method](http://docs.google.com/java/lang/reflect/Method.html) readMethod)            Sets the method that should be used to read an indexed property value. |
| void | [**setIndexedWriteMethod**](http://docs.google.com/java/beans/IndexedPropertyDescriptor.html#setIndexedWriteMethod(java.lang.reflect.Method))([Method](http://docs.google.com/java/lang/reflect/Method.html) writeMethod)            Sets the method that should be used to write an indexed property value. |

| **Methods inherited from class java.beans.**[**PropertyDescriptor**](http://docs.google.com/java/beans/PropertyDescriptor.html) |
| --- |
| [createPropertyEditor](http://docs.google.com/java/beans/PropertyDescriptor.html#createPropertyEditor(java.lang.Object)), [getPropertyEditorClass](http://docs.google.com/java/beans/PropertyDescriptor.html#getPropertyEditorClass()), [getPropertyType](http://docs.google.com/java/beans/PropertyDescriptor.html#getPropertyType()), [getReadMethod](http://docs.google.com/java/beans/PropertyDescriptor.html#getReadMethod()), [getWriteMethod](http://docs.google.com/java/beans/PropertyDescriptor.html#getWriteMethod()), [isBound](http://docs.google.com/java/beans/PropertyDescriptor.html#isBound()), [isConstrained](http://docs.google.com/java/beans/PropertyDescriptor.html#isConstrained()), [setBound](http://docs.google.com/java/beans/PropertyDescriptor.html#setBound(boolean)), [setConstrained](http://docs.google.com/java/beans/PropertyDescriptor.html#setConstrained(boolean)), [setPropertyEditorClass](http://docs.google.com/java/beans/PropertyDescriptor.html#setPropertyEditorClass(java.lang.Class)), [setReadMethod](http://docs.google.com/java/beans/PropertyDescriptor.html#setReadMethod(java.lang.reflect.Method)), [setWriteMethod](http://docs.google.com/java/beans/PropertyDescriptor.html#setWriteMethod(java.lang.reflect.Method)) |

| **Methods inherited from class java.beans.**[**FeatureDescriptor**](http://docs.google.com/java/beans/FeatureDescriptor.html) |
| --- |
| [attributeNames](http://docs.google.com/java/beans/FeatureDescriptor.html#attributeNames()), [getDisplayName](http://docs.google.com/java/beans/FeatureDescriptor.html#getDisplayName()), [getName](http://docs.google.com/java/beans/FeatureDescriptor.html#getName()), [getShortDescription](http://docs.google.com/java/beans/FeatureDescriptor.html#getShortDescription()), [getValue](http://docs.google.com/java/beans/FeatureDescriptor.html#getValue(java.lang.String)), [isExpert](http://docs.google.com/java/beans/FeatureDescriptor.html#isExpert()), [isHidden](http://docs.google.com/java/beans/FeatureDescriptor.html#isHidden()), [isPreferred](http://docs.google.com/java/beans/FeatureDescriptor.html#isPreferred()), [setDisplayName](http://docs.google.com/java/beans/FeatureDescriptor.html#setDisplayName(java.lang.String)), [setExpert](http://docs.google.com/java/beans/FeatureDescriptor.html#setExpert(boolean)), [setHidden](http://docs.google.com/java/beans/FeatureDescriptor.html#setHidden(boolean)), [setName](http://docs.google.com/java/beans/FeatureDescriptor.html#setName(java.lang.String)), [setPreferred](http://docs.google.com/java/beans/FeatureDescriptor.html#setPreferred(boolean)), [setShortDescription](http://docs.google.com/java/beans/FeatureDescriptor.html#setShortDescription(java.lang.String)), [setValue](http://docs.google.com/java/beans/FeatureDescriptor.html#setValue(java.lang.String,%20java.lang.Object)) |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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)) |

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

### IndexedPropertyDescriptor

public **IndexedPropertyDescriptor**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> beanClass)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

This constructor constructs an IndexedPropertyDescriptor for a property that follows the standard Java conventions by having getFoo and setFoo accessor methods, for both indexed access and array access.

Thus if the argument name is "fred", it will assume that there is an indexed reader method "getFred", a non-indexed (array) reader method also called "getFred", an indexed writer method "setFred", and finally a non-indexed writer method "setFred".

**Parameters:**propertyName - The programmatic name of the property.beanClass - The Class object for the target bean. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

### IndexedPropertyDescriptor

public **IndexedPropertyDescriptor**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> beanClass,  
 [String](http://docs.google.com/java/lang/String.html) readMethodName,  
 [String](http://docs.google.com/java/lang/String.html) writeMethodName,  
 [String](http://docs.google.com/java/lang/String.html) indexedReadMethodName,  
 [String](http://docs.google.com/java/lang/String.html) indexedWriteMethodName)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

This constructor takes the name of a simple property, and method names for reading and writing the property, both indexed and non-indexed.

**Parameters:**propertyName - The programmatic name of the property.beanClass - The Class object for the target bean.readMethodName - The name of the method used for reading the property values as an array. May be null if the property is write-only or must be indexed.writeMethodName - The name of the method used for writing the property values as an array. May be null if the property is read-only or must be indexed.indexedReadMethodName - The name of the method used for reading an indexed property value. May be null if the property is write-only.indexedWriteMethodName - The name of the method used for writing an indexed property value. May be null if the property is read-only. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

### IndexedPropertyDescriptor

public **IndexedPropertyDescriptor**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) readMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) writeMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) indexedReadMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) indexedWriteMethod)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

This constructor takes the name of a simple property, and Method objects for reading and writing the property.

**Parameters:**propertyName - The programmatic name of the pro perty.readMethod - The method used for reading the property values as an array. May be null if the property is write-only or must be indexed.writeMethod - The method used for writing the property values as an array. May be null if the property is read-only or must be indexed.indexedReadMethod - The method used for reading an indexed property value. May be null if the property is write-only.indexedWriteMethod - The method used for writing an indexed property value. May be null if the property is read-only. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

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

### getIndexedReadMethod

public [Method](http://docs.google.com/java/lang/reflect/Method.html) **getIndexedReadMethod**()

Gets the method that should be used to read an indexed property value.

**Returns:**The method that should be used to read an indexed property value. May return null if the property isn't indexed or is write-only.

### setIndexedReadMethod

public void **setIndexedReadMethod**([Method](http://docs.google.com/java/lang/reflect/Method.html) readMethod)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

Sets the method that should be used to read an indexed property value.

**Parameters:**readMethod - The new indexed read method. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

### getIndexedWriteMethod

public [Method](http://docs.google.com/java/lang/reflect/Method.html) **getIndexedWriteMethod**()

Gets the method that should be used to write an indexed property value.

**Returns:**The method that should be used to write an indexed property value. May return null if the property isn't indexed or is read-only.

### setIndexedWriteMethod

public void **setIndexedWriteMethod**([Method](http://docs.google.com/java/lang/reflect/Method.html) writeMethod)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

Sets the method that should be used to write an indexed property value.

**Parameters:**writeMethod - The new indexed write method. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

### getIndexedPropertyType

public [Class](http://docs.google.com/java/lang/Class.html)<?> **getIndexedPropertyType**()

Gets the Class object of the indexed properties' type. The returned Class may describe a primitive type such as int.

**Returns:**The Class for the indexed properties' type; may return null if the type cannot be determined.

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Compares this PropertyDescriptor against the specified object. Returns true if the objects are the same. Two PropertyDescriptors are the same if the read, write, property types, property editor and flags are equivalent.

**Overrides:**[equals](http://docs.google.com/java/beans/PropertyDescriptor.html#equals(java.lang.Object)) in class [PropertyDescriptor](http://docs.google.com/java/beans/PropertyDescriptor.html) **Parameters:**obj - the reference object with which to compare. **Returns:**true if this object is the same as the obj argument; false otherwise.**Since:** 1.4 **See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Returns a hash code value for the object. See [Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()) for a complete description.

**Overrides:**[hashCode](http://docs.google.com/java/beans/PropertyDescriptor.html#hashCode()) in class [PropertyDescriptor](http://docs.google.com/java/beans/PropertyDescriptor.html) **Returns:**a hash code value for this object.**Since:** 1.5 **See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

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