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org.apache.commons.beanutils

## Class MappedPropertyDescriptor

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [java.beans.FeatureDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true)
    - [java.beans.PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)
      * org.apache.commons.beanutils.MappedPropertyDescriptor
* public class MappedPropertyDescriptor  
  extends [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)  
  A MappedPropertyDescriptor describes one mapped property. Mapped properties are multivalued properties like indexed properties but that are accessed with a String key instead of an index. Such property values are typically stored in a Map collection. For this class to work properly, a mapped value must have getter and setter methods of the form  
  get**Property**(String key) and  
  set**Property**(String key, Object value),  
  where **Property** must be replaced by the name of the property.Version: $Id$ See Also: [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [MappedPropertyDescriptor](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#MappedPropertyDescriptor-java.lang.String-java.lang.Class-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass) Constructs a MappedPropertyDescriptor for a property that follows the standard Java convention by having getFoo and setFoo accessor methods, with the addition of a String parameter (the key). |
| * + [MappedPropertyDescriptor](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#MappedPropertyDescriptor-java.lang.String-java.lang.Class-java.lang.String-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) mappedGetterName, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) mappedSetterName) This constructor takes the name of a mapped property, and method names for reading and writing the property. |
| * + [MappedPropertyDescriptor](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#MappedPropertyDescriptor-java.lang.String-java.lang.reflect.Method-java.lang.reflect.Method-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedGetter, [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedSetter) This constructor takes the name of a mapped property, and Method objects for reading and writing the property. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getMappedPropertyType](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#getMappedPropertyType--)() Gets the Class object for the property values. |
| * + [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getMappedReadMethod](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#getMappedReadMethod--)() Gets the method that should be used to read one of the property value. |
| * + [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getMappedWriteMethod](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#getMappedWriteMethod--)() Gets the method that should be used to write one of the property value. |
| * + void | * + [setMappedReadMethod](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#setMappedReadMethod-java.lang.reflect.Method-)([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedGetter) Sets the method that should be used to read one of the property value. |
| * + void | * + [setMappedWriteMethod](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html#setMappedWriteMethod-java.lang.reflect.Method-)([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedSetter) Sets the method that should be used to write the property value. |

### Methods inherited from class java.beans.[**PropertyDescriptor**](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)[createPropertyEditor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#createPropertyEditor-java.lang.Object-), [equals](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#equals-java.lang.Object-), [getPropertyEditorClass](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#getPropertyEditorClass--), [getPropertyType](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#getPropertyType--), [getReadMethod](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#getReadMethod--), [getWriteMethod](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#getWriteMethod--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#hashCode--), [isBound](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#isBound--), [isConstrained](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#isConstrained--), [setBound](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#setBound-boolean-), [setConstrained](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#setConstrained-boolean-), [setPropertyEditorClass](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#setPropertyEditorClass-java.lang.Class-), [setReadMethod](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#setReadMethod-java.lang.reflect.Method-), [setWriteMethod](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true#setWriteMethod-java.lang.reflect.Method-)

### Methods inherited from class java.beans.[**FeatureDescriptor**](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true)[attributeNames](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#attributeNames--), [getDisplayName](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#getDisplayName--), [getName](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#getName--), [getShortDescription](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#getShortDescription--), [getValue](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#getValue-java.lang.String-), [isExpert](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#isExpert--), [isHidden](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#isHidden--), [isPreferred](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#isPreferred--), [setDisplayName](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setDisplayName-java.lang.String-), [setExpert](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setExpert-boolean-), [setHidden](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setHidden-boolean-), [setName](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setName-java.lang.String-), [setPreferred](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setPreferred-boolean-), [setShortDescription](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setShortDescription-java.lang.String-), [setValue](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#setValue-java.lang.String-java.lang.Object-), [toString](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true#toString--)

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Constructor Detail

#### MappedPropertyDescriptor public MappedPropertyDescriptor([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass) throws [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) Constructs a MappedPropertyDescriptor for a property that follows the standard Java convention by having getFoo and setFoo accessor methods, with the addition of a String parameter (the key). Thus if the argument name is "fred", it will assume that the writer method is "setFred" and the reader method is "getFred". Note that the property name should start with a lower case character, which will be capitalized in the method names.Parameters: propertyName - The programmatic name of the property. beanClass - The Class object for the target bean. For example sun.beans.OurButton.class. Throws: [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) - if an exception occurs during introspection.

#### MappedPropertyDescriptor public MappedPropertyDescriptor([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) mappedGetterName, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) mappedSetterName) throws [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) This constructor takes the name of a mapped property, and method names for reading and writing the property.Parameters: propertyName - The programmatic name of the property. beanClass - The Class object for the target bean. For example sun.beans.OurButton.class. mappedGetterName - The name of the method used for reading one of the property values. May be null if the property is write-only. mappedSetterName - The name of the method used for writing one of the property values. May be null if the property is read-only. Throws: [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) - if an exception occurs during introspection.

#### MappedPropertyDescriptor public MappedPropertyDescriptor([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedGetter, [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedSetter) throws [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) This constructor takes the name of a mapped property, and Method objects for reading and writing the property.Parameters: propertyName - The programmatic name of the property. mappedGetter - The method used for reading one of the property values. May be be null if the property is write-only. mappedSetter - The method used for writing one the property values. May be null if the property is read-only. Throws: [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) - if an exception occurs during introspection.

### Method Detail

#### getMappedPropertyType public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getMappedPropertyType() Gets the Class object for the property values.Returns: The Java type info for the property values. Note that the "Class" object may describe a built-in Java type such as "int". The result may be "null" if this is a mapped property that does not support non-keyed access. This is the type that will be returned by the mappedReadMethod.

#### getMappedReadMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getMappedReadMethod() Gets the method that should be used to read one of the property value.Returns: The method that should be used to read the property value. May return null if the property can't be read.

#### setMappedReadMethod public void setMappedReadMethod([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedGetter) throws [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) Sets the method that should be used to read one of the property value.Parameters: mappedGetter - The mapped getter method. Throws: [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) - If an error occurs finding the mapped property

#### getMappedWriteMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getMappedWriteMethod() Gets the method that should be used to write one of the property value.Returns: The method that should be used to write one of the property value. May return null if the property can't be written.

#### setMappedWriteMethod public void setMappedWriteMethod([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) mappedSetter) throws [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) Sets the method that should be used to write the property value.Parameters: mappedSetter - The mapped setter method. Throws: [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) - If an error occurs finding the mapped property

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