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* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/PropertyUtilsBean.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html)
* [Next Class](http://docs.google.com/org/apache/commons/beanutils/ResultSetDynaClass.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/beanutils/PropertyUtilsBean.html)
* [No Frames](http://docs.google.com/PropertyUtilsBean.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#3dy6vkm) |
* [Method](#4d34og8)

org.apache.commons.beanutils

## Class PropertyUtilsBean

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.PropertyUtilsBean
* public class PropertyUtilsBean  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
* Utility methods for using Java Reflection APIs to facilitate generic property getter and setter operations on Java objects. Much of this code was originally included in BeanUtils, but has been separated because of the volume of code involved.  
  In general, the objects that are examined and modified using these methods are expected to conform to the property getter and setter method naming conventions described in the JavaBeans Specification (Version 1.0.1). No data type conversions are performed, and there are no usage of any PropertyEditor classes that have been registered, although a convenient way to access the registered classes themselves is included.  
  For the purposes of this class, five formats for referencing a particular property value of a bean are defined, with the *default* layout of an identifying String in parentheses. However the notation for these formats and how they are resolved is now (since BeanUtils 1.8.0) controlled by the configured [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation:
  + **Simple (name)** - The specified name identifies an individual property of a particular JavaBean. The name of the actual getter or setter method to be used is determined using standard JavaBeans instrospection, so that (unless overridden by a BeanInfo class, a property named "xyz" will have a getter method named getXyz() or (for boolean properties only) isXyz(), and a setter method named setXyz().
  + **Nested (name1.name2.name3)** The first name element is used to select a property getter, as for simple references above. The object returned for this property is then consulted, using the same approach, for a property getter for a property named name2, and so on. The property value that is ultimately retrieved or modified is the one identified by the last name element.
  + **Indexed (name[index])** - The underlying property value is assumed to be an array, or this JavaBean is assumed to have indexed property getter and setter methods. The appropriate (zero-relative) entry in the array is selected. List objects are now also supported for read/write. You simply need to define a getter that returns the List
  + **Mapped (name(key))** - The JavaBean is assumed to have an property getter and setter methods with an additional attribute of type java.lang.String.
  + **Combined (name1.name2[index].name3(key))** - Combining mapped, nested, and indexed references is also supported.

Since: 1.7 Version: $Id$ See Also: [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html), [PropertyUtils](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#PropertyUtilsBean--)() Base constructor |

### Method SummaryAll Methods Static Methods Instance Methods Concrete Methods Deprecated Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [addBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#addBeanIntrospector-org.apache.commons.beanutils.BeanIntrospector-)([BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) introspector) Adds a BeanIntrospector. |
| * + void | * + [clearDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#clearDescriptors--)() Clear any cached property descriptors information for all classes loaded by any class loaders. |
| * + void | * + [copyProperties](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#copyProperties-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) dest, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) orig) Copy property values from the "origin" bean to the "destination" bean for all cases where the property names are the same (even though the actual getter and setter methods might have been customized via BeanInfo classes). |
| * + [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + [describe](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#describe-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Return the entire set of properties for which the specified bean provides a read method. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified indexed property of the specified bean, with no type conversions. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-int-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index) Return the value of the specified indexed property of the specified bean, with no type conversions. |
| * + protected static [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html) | * + [getInstance](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getInstance--)() Return the PropertyUtils bean instance. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified mapped property of the specified bean, with no type conversions. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key) Return the value of the specified mapped property of the specified bean, with no type conversions. |
| * + org.apache.commons.collections.FastHashMap | * + [getMappedPropertyDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedPropertyDescriptors-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass) Deprecated.  This method should not be exposed |
| * + org.apache.commons.collections.FastHashMap | * + [getMappedPropertyDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedPropertyDescriptors-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Deprecated.  This method should not be exposed |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getNestedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getNestedProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the (possibly nested) property of the specified name, for the specified bean, with no type conversions. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified property of the specified bean, no matter which property reference format is used, with no type conversions. |
| * + [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) | * + [getPropertyDescriptor](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyDescriptor-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Retrieve the property descriptor for the specified property of the specified bean, or return null if there is no such descriptor. |
| * + [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)[] | * + [getPropertyDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyDescriptors-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass) Retrieve the property descriptors for the specified class, introspecting and caching them the first time a particular bean class is encountered. |
| * + [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)[] | * + [getPropertyDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyDescriptors-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Retrieve the property descriptors for the specified bean, introspecting and caching them the first time a particular bean class is encountered. |
| * + [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getPropertyEditorClass](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyEditorClass-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the Java Class repesenting the property editor class that has been registered for this property (if any). |
| * + protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getPropertyOfMapBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyOfMapBean-java.util.Map-java.lang.String-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<?,?> bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName) This method is called by getNestedProperty and setNestedProperty to define what it means to get a property from an object which implements Map. |
| * + [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getPropertyType](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyType-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the Java Class representing the property type of the specified property, or null if there is no such property for the specified bean. |
| * + [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getReadMethod](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getReadMethod-java.beans.PropertyDescriptor-)([PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) descriptor) Return an accessible property getter method for this property, if there is one; otherwise return null. |
| * + [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) | * + [getResolver](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getResolver--)() Return the configured [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation used by BeanUtils. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getSimpleProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified simple property of the specified bean, with no type conversions. |
| * + [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getWriteMethod](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getWriteMethod-java.lang.Class-java.beans.PropertyDescriptor-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) descriptor) Return an accessible property setter method for this property, if there is one; otherwise return null. |
| * + [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getWriteMethod](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getWriteMethod-java.beans.PropertyDescriptor-)([PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) descriptor) Return an accessible property setter method for this property, if there is one; otherwise return null. |
| * + boolean | * + [isReadable](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#isReadable-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return true if the specified property name identifies a readable property on the specified bean; otherwise, return false. |
| * + boolean | * + [isWriteable](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#isWriteable-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return true if the specified property name identifies a writeable property on the specified bean; otherwise, return false. |
| * + boolean | * + [removeBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#removeBeanIntrospector-org.apache.commons.beanutils.BeanIntrospector-)([BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) introspector) Removes the specified BeanIntrospector. |
| * + void | * + [resetBeanIntrospectors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#resetBeanIntrospectors--)() Resets the [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) objects registered at this instance. |
| * + void | * + [setIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setIndexedProperty-java.lang.Object-java.lang.String-int-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the specified indexed property of the specified bean, with no type conversions. |
| * + void | * + [setIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setIndexedProperty-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the specified indexed property of the specified bean, with no type conversions. |
| * + void | * + [setMappedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setMappedProperty-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the specified mapped property of the specified bean, with no type conversions. |
| * + void | * + [setMappedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setMappedProperty-java.lang.Object-java.lang.String-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the specified mapped property of the specified bean, with no type conversions. |
| * + void | * + [setNestedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setNestedProperty-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the (possibly nested) property of the specified name, for the specified bean, with no type conversions. |
| * + void | * + [setProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setProperty-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the specified property of the specified bean, no matter which property reference format is used, with no type conversions. |
| * + protected void | * + [setPropertyOfMapBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setPropertyOfMapBean-java.util.Map-java.lang.String-java.lang.Object-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) This method is called by method setNestedProperty when the current bean is found to be a Map object, and defines how to deal with setting a property on a Map. |
| * + void | * + [setResolver](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setResolver-org.apache.commons.beanutils.expression.Resolver-)([Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) resolver) Configure the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation used by BeanUtils. |
| * + void | * + [setSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setSimpleProperty-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of the specified simple property of the specified bean, with no type conversions. |

### 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--), [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-), [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--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--), [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--), [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--), [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

#### PropertyUtilsBean public PropertyUtilsBean() Base constructor

### Method Detail

#### getInstance protected static [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html) getInstance() Return the PropertyUtils bean instance.Returns: The PropertyUtils bean instance

#### getResolver public [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) getResolver() Return the configured [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation used by BeanUtils. The [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) handles the *property name* expressions and the implementation in use effectively controls the dialect of the *expression language* that BeanUtils recongnises. [DefaultResolver](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html) is the default implementation used.Returns: resolver The property expression resolver. Since: 1.8.0

#### setResolver public void setResolver([Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) resolver) Configure the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation used by BeanUtils. The [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) handles the *property name* expressions and the implementation in use effectively controls the dialect of the *expression language* that BeanUtils recongnises. [DefaultResolver](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html) is the default implementation used.Parameters: resolver - The property expression resolver. Since: 1.8.0

#### resetBeanIntrospectors public final void resetBeanIntrospectors() Resets the [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) objects registered at this instance. After this method was called, only the default BeanIntrospector is registered.Since: 1.9

#### addBeanIntrospector public void addBeanIntrospector([BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) introspector) Adds a BeanIntrospector. This object is invoked when the property descriptors of a class need to be obtained.Parameters: introspector - the BeanIntrospector to be added (must not be **null** Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the argument is **null** Since: 1.9

#### removeBeanIntrospector public boolean removeBeanIntrospector([BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) introspector) Removes the specified BeanIntrospector.Parameters: introspector - the BeanIntrospector to be removed Returns: **true** if the BeanIntrospector existed and could be removed, **false** otherwise Since: 1.9

#### clearDescriptors public void clearDescriptors() Clear any cached property descriptors information for all classes loaded by any class loaders. This is useful in cases where class loaders are thrown away to implement class reloading.

#### copyProperties public void copyProperties([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) dest, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) orig) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Copy property values from the "origin" bean to the "destination" bean for all cases where the property names are the same (even though the actual getter and setter methods might have been customized via BeanInfo classes). No conversions are performed on the actual property values -- it is assumed that the values retrieved from the origin bean are assignment-compatible with the types expected by the destination bean. If the origin "bean" is actually a Map, it is assumed to contain String-valued **simple** property names as the keys, pointing at the corresponding property values that will be set in the destination bean.**Note** that this method is intended to perform a "shallow copy" of the properties and so complex properties (for example, nested ones) will not be copied. Note, that this method will not copy a List to a List, or an Object[] to an Object[]. It's specifically for copying JavaBean properties.Parameters: dest - Destination bean whose properties are modified orig - Origin bean whose properties are retrieved Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the dest or orig argument is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### describe public [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> describe([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the entire set of properties for which the specified bean provides a read method. This map contains the unconverted property values for all properties for which a read method is provided (i.e. where the getReadMethod() returns non-null). **FIXME** - Does not account for mapped properties.Parameters: bean - Bean whose properties are to be extracted Returns: The set of properties for the bean Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getIndexedProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified indexed property of the specified bean, with no type conversions. The zero-relative index of the required value must be included (in square brackets) as a suffix to the property name, or IllegalArgumentException will be thrown. In addition to supporting the JavaBeans specification, this method has been extended to support List objects as well.Parameters: bean - Bean whose property is to be extracted name - propertyname[index] of the property value to be extracted Returns: the indexed property value Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the specified index is outside the valid range for the underlying array or List [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getIndexedProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified indexed property of the specified bean, with no type conversions. In addition to supporting the JavaBeans specification, this method has been extended to support List objects as well.Parameters: bean - Bean whose property is to be extracted name - Simple property name of the property value to be extracted index - Index of the property value to be extracted Returns: the indexed property value Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the specified index is outside the valid range for the underlying property [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getMappedProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified mapped property of the specified bean, with no type conversions. The key of the required value must be included (in brackets) as a suffix to the property name, or IllegalArgumentException will be thrown.Parameters: bean - Bean whose property is to be extracted name - propertyname(key) of the property value to be extracted Returns: the mapped property value Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getMappedProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified mapped property of the specified bean, with no type conversions.Parameters: bean - Bean whose property is to be extracted name - Mapped property name of the property value to be extracted key - Key of the property value to be extracted Returns: the mapped property value Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getMappedPropertyDescriptors [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public org.apache.commons.collections.FastHashMap getMappedPropertyDescriptors([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass) Deprecated. This method should not be exposed Return the mapped property descriptors for this bean class. **FIXME** - Does not work with DynaBeans.Parameters: beanClass - Bean class to be introspected Returns: the mapped property descriptors

#### getMappedPropertyDescriptors [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public org.apache.commons.collections.FastHashMap getMappedPropertyDescriptors([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Deprecated. This method should not be exposed Return the mapped property descriptors for this bean. **FIXME** - Does not work with DynaBeans.Parameters: bean - Bean to be introspected Returns: the mapped property descriptors

#### getNestedProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getNestedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the (possibly nested) property of the specified name, for the specified bean, with no type conversions.Parameters: bean - Bean whose property is to be extracted name - Possibly nested name of the property to be extracted Returns: the nested property value Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [NestedNullException](http://docs.google.com/org/apache/commons/beanutils/NestedNullException.html) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getPropertyOfMapBean protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getPropertyOfMapBean([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<?,?> bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName) throws [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) This method is called by getNestedProperty and setNestedProperty to define what it means to get a property from an object which implements Map. See setPropertyOfMapBean for more information.Parameters: bean - Map bean propertyName - The property name Returns: the property value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - when the propertyName is regarded as being invalid. [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - just in case subclasses override this method to try to access real getter methods and find permission is denied. [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - just in case subclasses override this method to try to access real getter methods, and find it throws an exception when invoked. [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - just in case subclasses override this method to try to access real getter methods, and want to fail if no simple method is available. Since: 1.8.0

#### getProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified property of the specified bean, no matter which property reference format is used, with no type conversions.Parameters: bean - Bean whose property is to be extracted name - Possibly indexed and/or nested name of the property to be extracted Returns: the property value Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getPropertyDescriptor public [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) getPropertyDescriptor([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Retrieve the property descriptor for the specified property of the specified bean, or return null if there is no such descriptor. This method resolves indexed and nested property references in the same manner as other methods in this class, except that if the last (or only) name element is indexed, the descriptor for the last resolved property itself is returned. **FIXME** - Does not work with DynaBeans. Note that for Java 8 and above, this method no longer return IndexedPropertyDescriptor for [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)-typed properties, only for properties typed as native array. (BEANUTILS-492).Parameters: bean - Bean for which a property descriptor is requested name - Possibly indexed and/or nested name of the property for which a property descriptor is requested Returns: the property descriptor Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getPropertyDescriptors public [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)[] getPropertyDescriptors([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> beanClass) Retrieve the property descriptors for the specified class, introspecting and caching them the first time a particular bean class is encountered. **FIXME** - Does not work with DynaBeans.Parameters: beanClass - Bean class for which property descriptors are requested Returns: the property descriptors Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if beanClass is null

#### getPropertyDescriptors public [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)[] getPropertyDescriptors([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Retrieve the property descriptors for the specified bean, introspecting and caching them the first time a particular bean class is encountered. **FIXME** - Does not work with DynaBeans.Parameters: bean - Bean for which property descriptors are requested Returns: the property descriptors Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean is null

#### getPropertyEditorClass public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getPropertyEditorClass([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the Java Class repesenting the property editor class that has been registered for this property (if any). This method follows the same name resolution rules used by getPropertyDescriptor(), so if the last element of a name reference is indexed, the property editor for the underlying property's class is returned. Note that null will be returned if there is no property, or if there is no registered property editor class. Because this return value is ambiguous, you should determine the existence of the property itself by other means. **FIXME** - Does not work with DynaBeans.Parameters: bean - Bean for which a property descriptor is requested name - Possibly indexed and/or nested name of the property for which a property descriptor is requested Returns: the property editor class Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getPropertyType public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getPropertyType([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the Java Class representing the property type of the specified property, or null if there is no such property for the specified bean. This method follows the same name resolution rules used by getPropertyDescriptor(), so if the last element of a name reference is indexed, the type of the property itself will be returned. If the last (or only) element has no property with the specified name, null is returned. If the property is an indexed property (e.g. String[]), this method will return the type of the items within that array. Note that from Java 8 and newer, this method do not support such index types from items within an Collection, and will instead return the collection type (e.g. java.util.List) from the getter mtethod.Parameters: bean - Bean for which a property descriptor is requested name - Possibly indexed and/or nested name of the property for which a property descriptor is requested Returns: The property type Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getReadMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getReadMethod([PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) descriptor) Return an accessible property getter method for this property, if there is one; otherwise return null. **FIXME** - Does not work with DynaBeans.Parameters: descriptor - Property descriptor to return a getter for Returns: The read method

#### getSimpleProperty public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getSimpleProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified simple property of the specified bean, with no type conversions.Parameters: bean - Bean whose property is to be extracted name - Name of the property to be extracted Returns: The property value Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the property name is nested or indexed [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getWriteMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getWriteMethod([PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) descriptor) Return an accessible property setter method for this property, if there is one; otherwise return null. *Note:* This method does not work correctly with custom bean introspection under certain circumstances. It may return null even if a write method is defined for the property in question. Use [getWriteMethod(Class, PropertyDescriptor)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getWriteMethod-java.lang.Class-java.beans.PropertyDescriptor-) to be sure that the correct result is returned. **FIXME** - Does not work with DynaBeans.Parameters: descriptor - Property descriptor to return a setter for Returns: The write method

#### getWriteMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getWriteMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true) descriptor) Return an accessible property setter method for this property, if there is one; otherwise return null. **FIXME** - Does not work with DynaBeans.Parameters: clazz - The class of the read method will be invoked on descriptor - Property descriptor to return a setter for Returns: The write method Since: 1.9.1

#### isReadable public boolean isReadable([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return true if the specified property name identifies a readable property on the specified bean; otherwise, return false.Parameters: bean - Bean to be examined (may be a [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) name - Property name to be evaluated Returns: true if the property is readable, otherwise false Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null Since: BeanUtils 1.6

#### isWriteable public boolean isWriteable([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return true if the specified property name identifies a writeable property on the specified bean; otherwise, return false.Parameters: bean - Bean to be examined (may be a [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) name - Property name to be evaluated Returns: true if the property is writeable, otherwise false Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null Since: BeanUtils 1.6

#### setIndexedProperty public void setIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Set the value of the specified indexed property of the specified bean, with no type conversions. The zero-relative index of the required value must be included (in square brackets) as a suffix to the property name, or IllegalArgumentException will be thrown. In addition to supporting the JavaBeans specification, this method has been extended to support List objects as well.Parameters: bean - Bean whose property is to be modified name - propertyname[index] of the property value to be modified value - Value to which the specified property element should be set Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the specified index is outside the valid range for the underlying property [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### setIndexedProperty public void setIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Set the value of the specified indexed property of the specified bean, with no type conversions. In addition to supporting the JavaBeans specification, this method has been extended to support List objects as well.Parameters: bean - Bean whose property is to be set name - Simple property name of the property value to be set index - Index of the property value to be set value - Value to which the indexed property element is to be set Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the specified index is outside the valid range for the underlying property [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### setMappedProperty public void setMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Set the value of the specified mapped property of the specified bean, with no type conversions. The key of the value to set must be included (in brackets) as a suffix to the property name, or IllegalArgumentException will be thrown.Parameters: bean - Bean whose property is to be set name - propertyname(key) of the property value to be set value - The property value to be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### setMappedProperty public void setMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Set the value of the specified mapped property of the specified bean, with no type conversions.Parameters: bean - Bean whose property is to be set name - Mapped property name of the property value to be set key - Key of the property value to be set value - The property value to be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### setNestedProperty public void setNestedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true)

* + - Set the value of the (possibly nested) property of the specified name, for the specified bean, with no type conversions.  
      Example values for parameter "name" are:
      * "a" -- sets the value of property a of the specified bean
      * "a.b" -- gets the value of property a of the specified bean, then on that object sets the value of property b.
      * "a(key)" -- sets a value of mapped-property a on the specified bean. This effectively means bean.setA("key").
      * "a[3]" -- sets a value of indexed-property a on the specified bean. This effectively means bean.setA(3).

Parameters: bean - Bean whose property is to be modified name - Possibly nested name of the property to be modified value - Value to which the property is to be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### setPropertyOfMapBean protected void setPropertyOfMapBean([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true)

* + - This method is called by method setNestedProperty when the current bean is found to be a Map object, and defines how to deal with setting a property on a Map.  
      The standard implementation here is to:
      * call bean.set(propertyName) for all propertyName values.
      * throw an IllegalArgumentException if the property specifier contains MAPPED\_DELIM or INDEXED\_DELIM, as Map entries are essentially simple properties; mapping and indexing operations do not make sense when accessing a map (even thought the returned object may be a Map or an Array).

The default behaviour of beanutils 1.7.1 or later is for assigning to "a.b" to mean a.put(b, obj) always. However the behaviour of beanutils version 1.6.0, 1.6.1, 1.7.0 was for "a.b" to mean a.setB(obj) if such a method existed, and a.put(b, obj) otherwise. In version 1.5 it meant a.put(b, obj) always (ie the same as the behaviour in the current version). In versions prior to 1.5 it meant a.setB(obj) always. [yes, this is all *very* unfortunate]  
Users who would like to customise the meaning of "a.b" in method setNestedProperty when a is a Map can create a custom subclass of this class and override this method to implement the behaviour of their choice, such as restoring the pre-1.4 behaviour of this class if they wish. When overriding this method, do not forget to deal with MAPPED\_DELIM and INDEXED\_DELIM characters in the propertyName.  
Note, however, that the recommended solution for objects that implement Map but want their simple properties to come first is for *those* objects to override their get/put methods to implement that behaviour, and *not* to solve the problem by modifying the default behaviour of the PropertyUtilsBean class by overriding this method.Parameters: bean - Map bean propertyName - The property name value - the property value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - when the propertyName is regarded as being invalid. [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - just in case subclasses override this method to try to access real setter methods and find permission is denied. [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - just in case subclasses override this method to try to access real setter methods, and find it throws an exception when invoked. [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - just in case subclasses override this method to try to access real setter methods, and want to fail if no simple method is available. Since: 1.8.0

#### setProperty public void setProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Set the value of the specified property of the specified bean, no matter which property reference format is used, with no type conversions.Parameters: bean - Bean whose property is to be modified name - Possibly indexed and/or nested name of the property to be modified value - Value to which this property is to be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### setSimpleProperty public void setSimpleProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Set the value of the specified simple property of the specified bean, with no type conversions.Parameters: bean - Bean whose property is to be modified name - Name of the property to be modified value - Value to which the property should be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if bean or name is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the property name is nested or indexed [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

[Skip navigation links](#37m2jsg)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/PropertyUtilsBean.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html)
* [Next Class](http://docs.google.com/org/apache/commons/beanutils/ResultSetDynaClass.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/beanutils/PropertyUtilsBean.html)
* [No Frames](http://docs.google.com/PropertyUtilsBean.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#3dy6vkm) |
* [Method](#4d34og8)

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