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org.apache.commons.beanutils

## Class PropertyUtils

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.PropertyUtils
* public class PropertyUtils  
  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.  
  The implementations for these methods are provided by PropertyUtilsBean. For more details see [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html).Version: $Id$ See Also: [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html), [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html)

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static char | * + [INDEXED\_DELIM](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#INDEXED_DELIM) Deprecated.  The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. |
| * + static char | * + [INDEXED\_DELIM2](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#INDEXED_DELIM2) Deprecated.  The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. |
| * + static char | * + [MAPPED\_DELIM](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#MAPPED_DELIM) Deprecated.  The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. |
| * + static char | * + [MAPPED\_DELIM2](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#MAPPED_DELIM2) Deprecated.  The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. |
| * + static char | * + [NESTED\_DELIM](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#NESTED_DELIM) Deprecated.  The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. |

### Constructor SummaryConstructors

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

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static void | * + [addBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#addBeanIntrospector-org.apache.commons.beanutils.BeanIntrospector-)([BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) introspector) Adds a BeanIntrospector. |
| * + static void | * + [clearDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#clearDescriptors--)() Clear any cached property descriptors information for all classes loaded by any class loaders. |
| * + static void | * + [copyProperties](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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). |
| * + static [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/PropertyUtils.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. |
| * + static int | * + [getDebug](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#getDebug--)() Deprecated.  The debug static property is no longer used |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static org.apache.commons.collections.FastHashMap | * + [getMappedPropertyDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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 |
| * + static org.apache.commons.collections.FastHashMap | * + [getMappedPropertyDescriptors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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 |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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). |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static [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/PropertyUtils.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. |
| * + static boolean | * + [isReadable](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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. |
| * + static boolean | * + [isWriteable](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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. |
| * + static boolean | * + [removeBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#removeBeanIntrospector-org.apache.commons.beanutils.BeanIntrospector-)([BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) introspector) Removes the specified BeanIntrospector. |
| * + static void | * + [resetBeanIntrospectors](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#resetBeanIntrospectors--)() Resets the registered [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) objects to the initial default state. |
| * + static void | * + [setDebug](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html#setDebug-int-)(int newDebug) Deprecated.  The debug static property is no longer used |
| * + static void | * + [setIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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) Sets the value of the specified indexed property of the specified bean, with no type conversions. |
| * + static void | * + [setIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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) Sets the value of the specified indexed property of the specified bean, with no type conversions. |
| * + static void | * + [setMappedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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) Sets the value of the specified mapped property of the specified bean, with no type conversions. |
| * + static void | * + [setMappedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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) Sets the value of the specified mapped property of the specified bean, with no type conversions. |
| * + static void | * + [setNestedProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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) Sets the value of the (possibly nested) property of the specified name, for the specified bean, with no type conversions. |
| * + static void | * + [setProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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. |
| * + static void | * + [setSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.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-)

### Field Detail

#### INDEXED\_DELIM [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static final char INDEXED\_DELIM Deprecated. The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. The delimiter that preceeds the zero-relative subscript for an indexed reference.See Also: [Constant Field Values](http://docs.google.com/constant-values.html#org.apache.commons.beanutils.PropertyUtils.INDEXED_DELIM)

#### INDEXED\_DELIM2 [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static final char INDEXED\_DELIM2 Deprecated. The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. The delimiter that follows the zero-relative subscript for an indexed reference.See Also: [Constant Field Values](http://docs.google.com/constant-values.html#org.apache.commons.beanutils.PropertyUtils.INDEXED_DELIM2)

#### MAPPED\_DELIM [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static final char MAPPED\_DELIM Deprecated. The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. The delimiter that preceeds the key of a mapped property.See Also: [Constant Field Values](http://docs.google.com/constant-values.html#org.apache.commons.beanutils.PropertyUtils.MAPPED_DELIM)

#### MAPPED\_DELIM2 [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static final char MAPPED\_DELIM2 Deprecated. The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. The delimiter that follows the key of a mapped property.See Also: [Constant Field Values](http://docs.google.com/constant-values.html#org.apache.commons.beanutils.PropertyUtils.MAPPED_DELIM2)

#### NESTED\_DELIM [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static final char NESTED\_DELIM Deprecated. The notation used for property name expressions is now dependant on the [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation being used. The delimiter that separates the components of a nested reference.See Also: [Constant Field Values](http://docs.google.com/constant-values.html#org.apache.commons.beanutils.PropertyUtils.NESTED_DELIM)

### Constructor Detail

#### PropertyUtils public PropertyUtils()

### Method Detail

#### getDebug [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static int getDebug() Deprecated. The debug static property is no longer used The debug static property is no longer usedReturns: debug property

#### setDebug [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static void setDebug(int newDebug) Deprecated. The debug static property is no longer used The debug static property is no longer usedParameters: newDebug - debug property

#### clearDescriptors public static 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. For more details see PropertyUtilsBean.See Also: [PropertyUtilsBean.clearDescriptors()](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#clearDescriptors--)

#### resetBeanIntrospectors public static void resetBeanIntrospectors() Resets the registered [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) objects to the initial default state.Since: 1.9

#### addBeanIntrospector public static 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 static 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

#### copyProperties public static 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). For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.copyProperties(java.lang.Object, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#copyProperties-java.lang.Object-java.lang.Object-)

#### describe public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.describe(java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#describe-java.lang.Object-)

#### getIndexedProperty public static [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. For more details see PropertyUtilsBean.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 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 See Also: [PropertyUtilsBean.getIndexedProperty(Object,String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-)

#### getIndexedProperty public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getIndexedProperty(Object,String, int)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-int-)

#### getMappedProperty public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getMappedProperty(Object,String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-)

#### getMappedProperty public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getMappedProperty(Object,String, String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-java.lang.String-)

#### getMappedPropertyDescriptors [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static 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. For more details see PropertyUtilsBean.Parameters: beanClass - Bean class to be introspected Returns: the mapped property descriptors See Also: [PropertyUtilsBean.getMappedPropertyDescriptors(Class)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedPropertyDescriptors-java.lang.Class-)

#### getMappedPropertyDescriptors [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static 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. For more details see PropertyUtilsBean.Parameters: bean - Bean to be introspected Returns: the mapped property descriptors See Also: [PropertyUtilsBean.getMappedPropertyDescriptors(Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getMappedPropertyDescriptors-java.lang.Object-)

#### getNestedProperty public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getNestedProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getNestedProperty-java.lang.Object-java.lang.String-)

#### getProperty public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getProperty-java.lang.Object-java.lang.String-)

#### getPropertyDescriptor public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getPropertyDescriptor(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyDescriptor-java.lang.Object-java.lang.String-)

#### getPropertyDescriptors public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getPropertyDescriptors(Class)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyDescriptors-java.lang.Class-)

#### getPropertyDescriptors public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getPropertyDescriptors(Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyDescriptors-java.lang.Object-)

#### getPropertyEditorClass public static [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). For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getPropertyEditorClass(Object,String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyEditorClass-java.lang.Object-java.lang.String-)

#### getPropertyType public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getPropertyType(Object, String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getPropertyType-java.lang.Object-java.lang.String-)

#### getReadMethod public static [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. For more details see PropertyUtilsBean.Parameters: descriptor - Property descriptor to return a getter for Returns: The read method See Also: [PropertyUtilsBean.getReadMethod(PropertyDescriptor)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getReadMethod-java.beans.PropertyDescriptor-)

#### getSimpleProperty public static [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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.getSimpleProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getSimpleProperty-java.lang.Object-java.lang.String-)

#### getWriteMethod public static [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. For more details see PropertyUtilsBean.Parameters: descriptor - Property descriptor to return a setter for Returns: The write method See Also: [PropertyUtilsBean.getWriteMethod(PropertyDescriptor)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#getWriteMethod-java.beans.PropertyDescriptor-)

#### isReadable public static 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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.isReadable(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#isReadable-java.lang.Object-java.lang.String-)

#### isWriteable public static 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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.isWriteable(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#isWriteable-java.lang.Object-java.lang.String-)

#### setIndexedProperty public static 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) Sets the value of the specified indexed property of the specified bean, with no type conversions. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setIndexedProperty(Object, String, Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setIndexedProperty-java.lang.Object-java.lang.String-java.lang.Object-)

#### setIndexedProperty public static 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) Sets the value of the specified indexed property of the specified bean, with no type conversions. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setIndexedProperty(Object, String, Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setIndexedProperty-java.lang.Object-java.lang.String-java.lang.Object-)

#### setMappedProperty public static 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) Sets the value of the specified mapped property of the specified bean, with no type conversions. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setMappedProperty(Object, String, Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setMappedProperty-java.lang.Object-java.lang.String-java.lang.Object-)

#### setMappedProperty public static 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) Sets the value of the specified mapped property of the specified bean, with no type conversions. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setMappedProperty(Object, String, String, Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setMappedProperty-java.lang.Object-java.lang.String-java.lang.String-java.lang.Object-)

#### setNestedProperty public static 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) Sets the value of the (possibly nested) property of the specified name, for the specified bean, with no type conversions. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setNestedProperty(java.lang.Object, java.lang.String, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setNestedProperty-java.lang.Object-java.lang.String-java.lang.Object-)

#### setProperty public static 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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setProperty(java.lang.Object, java.lang.String, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setProperty-java.lang.Object-java.lang.String-java.lang.Object-)

#### setSimpleProperty public static 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. For more details see PropertyUtilsBean.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 See Also: [PropertyUtilsBean.setSimpleProperty(java.lang.Object, java.lang.String, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html#setSimpleProperty-java.lang.Object-java.lang.String-java.lang.Object-)

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