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org.apache.commons.beanutils

## Class BeanUtils

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.BeanUtils
* Direct Known Subclasses: [LocaleBeanUtils](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtils.html)  
    
  public class BeanUtils  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  Utility methods for populating JavaBeans properties via reflection.  
  The implementations are provided by [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html). These static utility methods use the default instance. More sophisticated behaviour can be provided by using a BeanUtilsBean instance.Version: $Id$ See Also: [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html)

### Constructor SummaryConstructors

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

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [cloneBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#cloneBean-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Clone a bean based on the available property getters and setters, even if the bean class itself does not implement Cloneable. |
| * + static void | * + [copyProperties](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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. |
| * + static void | * + [copyProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#copyProperty-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) Copy the specified property value to the specified destination bean, performing any type conversion that is required. |
| * + static <K,V> [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> | * + [createCache](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#createCache--)() Create a cache. |
| * + 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),[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> | * + [describe](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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 [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] | * + [getArrayProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#getArrayProperty-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 array property of the specified bean, as a String array. |
| * + static boolean | * + [getCacheFast](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#getCacheFast-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<?,?> map) Return whether a Map is fast |
| * + static int | * + [getDebug](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#getDebug--)() Deprecated.  BeanUtils now uses commons-logging for all log messages. Use your favorite logging tool to configure logging for this class. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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, as a String. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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, as a String. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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 indexed property of the specified bean, as a String. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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, as a String. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getNestedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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, as a String. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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, as a String. |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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, converted to a String. |
| * + static boolean | * + [initCause](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#initCause-java.lang.Throwable-java.lang.Throwable-)([Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) throwable, [Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) cause) If we're running on JDK 1.4 or later, initialize the cause for the given throwable. |
| * + static void | * + [populate](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#populate-java.lang.Object-java.util.Map-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [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),? extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> properties) Populate the JavaBeans properties of the specified bean, based on the specified name/value pairs. |
| * + static void | * + [setCacheFast](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#setCacheFast-java.util.Map-boolean-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<?,?> map, boolean fast) Set whether fast on a Map |
| * + static void | * + [setDebug](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html#setDebug-int-)(int newDebug) Deprecated.  BeanUtils now uses commons-logging for all log messages. Use your favorite logging tool to configure logging for this class. |
| * + static void | * + [setProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.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 specified property value, performing type conversions as required to conform to the type of the destination property. |

### 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

#### BeanUtils public BeanUtils()

### Method Detail

#### getDebug [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static int getDebug() Deprecated. BeanUtils now uses commons-logging for all log messages. Use your favorite logging tool to configure logging for this class. 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. BeanUtils now uses commons-logging for all log messages. Use your favorite logging tool to configure logging for this class. The debug static property is no longer usedParameters: newDebug - debug property

#### cloneBean public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) cloneBean([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), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.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) Clone a bean based on the available property getters and setters, even if the bean class itself does not implement Cloneable. For more details see BeanUtilsBean.Parameters: bean - Bean to be cloned Returns: the cloned 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 [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - if a new instance of the bean's class cannot be instantiated [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 property cannot be found See Also: [BeanUtilsBean.cloneBean(java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#cloneBean-java.lang.Object-)

#### 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) Copy property values from the origin bean to the destination bean for all cases where the property names are the same. For more details see BeanUtilsBean.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 or if the dest property type is different from the source type and the relevant converter has not been registered. [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 See Also: [BeanUtilsBean.copyProperties(java.lang.Object, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#copyProperties-java.lang.Object-java.lang.Object-)

#### copyProperty public static void copyProperty([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) Copy the specified property value to the specified destination bean, performing any type conversion that is required. For more details see BeanUtilsBean.Parameters: bean - Bean on which setting is to be performed name - Property name (can be nested/indexed/mapped/combo) value - 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 See Also: [BeanUtilsBean.copyProperty(java.lang.Object, java.lang.String, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#copyProperty-java.lang.Object-java.lang.String-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),[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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 BeanUtilsBean.Parameters: bean - Bean whose properties are to be extracted Returns: Map of property descriptors 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 property cannot be found See Also: [BeanUtilsBean.describe(java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#describe-java.lang.Object-)

#### getArrayProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] getArrayProperty([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 array property of the specified bean, as a String array. For more details see BeanUtilsBean.Parameters: bean - Bean whose property is to be extracted name - Name of the property to be extracted Returns: The array 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 property cannot be found See Also: [BeanUtilsBean.getArrayProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getArrayProperty-java.lang.Object-java.lang.String-)

#### getIndexedProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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, as a String. For more details see BeanUtilsBean.Parameters: bean - Bean whose property is to be extracted name - propertyname[index] of the property value to be extracted Returns: The indexed property's value, converted to a String 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 property cannot be found See Also: [BeanUtilsBean.getIndexedProperty(Object, String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-)

#### getIndexedProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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, as a String. The index is specified as a method parameter and must \*not\* be included in the property name expression For more details see BeanUtilsBean.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's value, converted to a String 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 property cannot be found See Also: [BeanUtilsBean.getIndexedProperty(Object, String, int)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-int-)

#### getMappedProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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 indexed property of the specified bean, as a String. For more details see BeanUtilsBean.Parameters: bean - Bean whose property is to be extracted name - propertyname(index) of the property value to be extracted Returns: The mapped property's value, converted to a String 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 property cannot be found See Also: [BeanUtilsBean.getMappedProperty(Object, String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-)

#### getMappedProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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, as a String. For more details see BeanUtilsBean.Parameters: bean - Bean whose property is to be extracted name - Simple property name of the property value to be extracted key - Lookup key of the property value to be extracted Returns: The mapped property's value, converted to a String 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 property cannot be found See Also: [BeanUtilsBean.getMappedProperty(Object, String, String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-java.lang.String-)

#### getNestedProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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, as a String. For more details see BeanUtilsBean.Parameters: bean - Bean whose property is to be extracted name - Possibly nested name of the property to be extracted Returns: The nested property's value, converted to a String 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 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 property cannot be found See Also: [BeanUtilsBean.getNestedProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getNestedProperty-java.lang.Object-java.lang.String-)

#### getProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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, as a String. For more details see BeanUtilsBean.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's value, converted to a String 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 property cannot be found See Also: [BeanUtilsBean.getProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getProperty-java.lang.Object-java.lang.String-)

#### getSimpleProperty public static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.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, converted to a String. For more details see BeanUtilsBean.Parameters: bean - Bean whose property is to be extracted name - Name of the property to be extracted Returns: The property's value, converted to a String 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 property cannot be found See Also: [BeanUtilsBean.getSimpleProperty(java.lang.Object, java.lang.String)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getSimpleProperty-java.lang.Object-java.lang.String-)

#### populate public static void populate([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [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),? extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> properties) 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) Populate the JavaBeans properties of the specified bean, based on the specified name/value pairs. For more details see BeanUtilsBean.Parameters: bean - JavaBean whose properties are being populated properties - Map keyed by property name, with the corresponding (String or String[]) value(s) 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 See Also: [BeanUtilsBean.populate(java.lang.Object, java.util.Map<java.lang.String, ? extends java.lang.Object>)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#populate-java.lang.Object-java.util.Map-)

#### 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) Set the specified property value, performing type conversions as required to conform to the type of the destination property. For more details see BeanUtilsBean.Parameters: bean - Bean on which setting is to be performed name - Property name (can be nested/indexed/mapped/combo) value - 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 See Also: [BeanUtilsBean.setProperty(java.lang.Object, java.lang.String, java.lang.Object)](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#setProperty-java.lang.Object-java.lang.String-java.lang.Object-)

#### initCause public static boolean initCause([Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) throwable, [Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) cause) If we're running on JDK 1.4 or later, initialize the cause for the given throwable.Parameters: throwable - The throwable. cause - The cause of the throwable. Returns: true if the cause was initialized, otherwise false. Since: 1.8.0

#### createCache public static <K,V> [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> createCache() Create a cache.Type Parameters: K - the key type of the cache V - the value type of the cache Returns: a new cache Since: 1.8.0

#### getCacheFast public static boolean getCacheFast([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<?,?> map) Return whether a Map is fastParameters: map - The map Returns: Whether it is fast or not. Since: 1.8.0

#### setCacheFast public static void setCacheFast([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<?,?> map, boolean fast) Set whether fast on a MapParameters: map - The map fast - Whether it should be fast or not. Since: 1.8.0

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