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org.apache.commons.beanutils

## Class BeanMap

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [java.util.AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>
    - org.apache.commons.beanutils.BeanMap
* All Implemented Interfaces: [Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>  
    
  public class BeanMap  
  extends [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>  
  implements [Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true)  
  An implementation of Map for JavaBeans which uses introspection to get and put properties in the bean.  
  If an exception occurs during attempts to get or set a property then the property is considered non existent in the MapVersion: $Id$

### Nested Class SummaryNested Classes

|  |  |
| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + protected static class | * + [BeanMap.Entry](http://docs.google.com/org/apache/commons/beanutils/BeanMap.Entry.html) Map entry used by [BeanMap](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html). |

### Nested classes/interfaces inherited from class java.util.[**AbstractMap**](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)[AbstractMap.SimpleEntry](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.SimpleEntry.html?is-external=true)<[K](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.SimpleEntry.html?is-external=true),[V](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.SimpleEntry.html?is-external=true)>, [AbstractMap.SimpleImmutableEntry](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.SimpleImmutableEntry.html?is-external=true)<[K](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.SimpleImmutableEntry.html?is-external=true),[V](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.SimpleImmutableEntry.html?is-external=true)>

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static [HashMap](https://docs.oracle.com/javase/7/docs/api/java/util/HashMap.html?is-external=true) | * + [defaultTransformers](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#defaultTransformers) Deprecated.  Use [getTypeTransformer(Class)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#getTypeTransformer-java.lang.Class-) method |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] | * + [NULL\_ARGUMENTS](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#NULL_ARGUMENTS) An empty array. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [BeanMap](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#BeanMap--)() Constructs a new empty BeanMap. |
| * + [BeanMap](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#BeanMap-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Constructs a new BeanMap that operates on the specified bean. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [clear](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#clear--)() This method reinitializes the bean map to have default values for the bean's properties. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [clone](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#clone--)() Clone this bean map using the following process: If there is no underlying bean, return a cloned BeanMap without a bean. |
| * + boolean | * + [containsKey](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#containsKey-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns true if the bean defines a property with the given name. |
| * + boolean | * + [containsValue](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#containsValue-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Returns true if the bean defines a property whose current value is the given object. |
| * + protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [convertType](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#convertType-java.lang.Class-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> newType, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Converts the given value to the given type. |
| * + protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] | * + [createWriteMethodArguments](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#createWriteMethodArguments-java.lang.reflect.Method-java.lang.Object-)([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) method, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Creates an array of parameters to pass to the given mutator method. |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>> | * + [entryIterator](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#entryIterator--)() Convenience method for getting an iterator over the entries. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>> | * + [entrySet](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#entrySet--)() Gets a Set of MapEntry objects that are the mappings for this BeanMap. |
| * + protected void | * + [firePropertyChange](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#firePropertyChange-java.lang.Object-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) oldValue, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) newValue) Called during a successful [put(Object,Object)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#put-java.lang.Object-java.lang.Object-) operation. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [get](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#get-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns the value of the bean's property with the given name. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getBean](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#getBean--)() Returns the bean currently being operated on. |
| * + protected [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/BeanMap.html#getReadMethod-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns the accessor for the property with the given name. |
| * + [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/BeanMap.html#getReadMethod-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Returns the accessor for the property with the given name. |
| * + [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getType](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#getType-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Returns the type of the property with the given name. |
| * + protected org.apache.commons.collections.Transformer | * + [getTypeTransformer](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#getTypeTransformer-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> aType) Returns a transformer for the given primitive type. |
| * + protected [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/BeanMap.html#getWriteMethod-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns the mutator for the property with the given name. |
| * + [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/BeanMap.html#getWriteMethod-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Returns the mutator for the property with the given name. |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> | * + [keyIterator](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#keyIterator--)() Convenience method for getting an iterator over the keys. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + [keySet](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#keySet--)() Get the keys for this BeanMap. |
| * + protected void | * + [logInfo](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#logInfo-java.lang.Exception-)([Exception](https://docs.oracle.com/javase/7/docs/api/java/lang/Exception.html?is-external=true) ex) Logs the given exception to System.out. |
| * + protected void | * + [logWarn](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#logWarn-java.lang.Exception-)([Exception](https://docs.oracle.com/javase/7/docs/api/java/lang/Exception.html?is-external=true) ex) Logs the given exception to System.err. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [put](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#put-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Sets the bean property with the given name to the given value. |
| * + void | * + [putAllWriteable](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#putAllWriteable-org.apache.commons.beanutils.BeanMap-)([BeanMap](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html) map) Puts all of the writable properties from the given BeanMap into this BeanMap. |
| * + protected void | * + [reinitialise](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#reinitialise--)() Reinitializes this bean. |
| * + void | * + [setBean](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#setBean-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) newBean) Sets the bean to be operated on by this map. |
| * + int | * + [size](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#size--)() Returns the number of properties defined by the bean. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [toString](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#toString--)() Renders a string representation of this object. |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + [valueIterator](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#valueIterator--)() Convenience method for getting an iterator over the values. |
| * + [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + [values](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#values--)() Returns the values for the BeanMap. |

### Methods inherited from class java.util.[**AbstractMap**](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)[equals](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#equals-java.lang.Object-), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#hashCode--), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#isEmpty--), [putAll](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#putAll-java.util.Map-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#remove-java.lang.Object-)

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

### Methods inherited from interface java.util.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[compute](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#compute-K-java.util.function.BiFunction-), [computeIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfAbsent-K-java.util.function.Function-), [computeIfPresent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfPresent-K-java.util.function.BiFunction-), [forEach](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#forEach-java.util.function.BiConsumer-), [getOrDefault](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#getOrDefault-java.lang.Object-V-), [merge](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#merge-K-V-java.util.function.BiFunction-), [putIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putIfAbsent-K-V-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-java.lang.Object-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-V-), [replaceAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replaceAll-java.util.function.BiFunction-)

### Field Detail

#### NULL\_ARGUMENTS public static final [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] NULL\_ARGUMENTS An empty array. Used to invoke accessors via reflection.

#### defaultTransformers [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static [HashMap](https://docs.oracle.com/javase/7/docs/api/java/util/HashMap.html?is-external=true) defaultTransformers Deprecated. Use [getTypeTransformer(Class)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#getTypeTransformer-java.lang.Class-) method This HashMap has been made unmodifiable to prevent issues when loaded in a shared ClassLoader enviroment.See Also: "http://issues.apache.org/jira/browse/BEANUTILS-112"

### Constructor Detail

#### BeanMap public BeanMap() Constructs a new empty BeanMap.

#### BeanMap public BeanMap([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean) Constructs a new BeanMap that operates on the specified bean. If the given bean is null, then this map will be empty.Parameters: bean - the bean for this map to operate on

### Method Detail

#### toString public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) toString() Renders a string representation of this object.Overrides: [toString](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#toString--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: a String representation of this object

#### clone public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) clone() throws [CloneNotSupportedException](https://docs.oracle.com/javase/7/docs/api/java/lang/CloneNotSupportedException.html?is-external=true)

* + - Clone this bean map using the following process:
      * If there is no underlying bean, return a cloned BeanMap without a bean.
      * Since there is an underlying bean, try to instantiate a new bean of the same type using Class.newInstance().
      * If the instantiation fails, throw a CloneNotSupportedException
      * Clone the bean map and set the newly instantiated bean as the underlying bean for the bean map.
      * Copy each property that is both readable and writable from the existing object to a cloned bean map.
      * If anything fails along the way, throw a CloneNotSupportedException.

Overrides: [clone](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#clone--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: a cloned instance of this bean map Throws: [CloneNotSupportedException](https://docs.oracle.com/javase/7/docs/api/java/lang/CloneNotSupportedException.html?is-external=true) - if the underlying bean cannot be cloned

#### putAllWriteable public void putAllWriteable([BeanMap](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html) map) Puts all of the writable properties from the given BeanMap into this BeanMap. Read-only and Write-only properties will be ignored.Parameters: map - the BeanMap whose properties to put

#### clear public void clear() This method reinitializes the bean map to have default values for the bean's properties. This is accomplished by constructing a new instance of the bean which the map uses as its underlying data source. This behavior for clear() differs from the Map contract in that the mappings are not actually removed from the map (the mappings for a BeanMap are fixed).Specified by: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#clear--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>

#### containsKey public boolean containsKey([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns true if the bean defines a property with the given name. The given name must be a String; if not, this method returns false. This method will also return false if the bean does not define a property with that name. Write-only properties will not be matched as the test operates against property read methods.Specified by: [containsKey](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsKey-java.lang.Object-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [containsKey](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#containsKey-java.lang.Object-) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: name - the name of the property to check Returns: false if the given name is null or is not a String; false if the bean does not define a property with that name; or true if the bean does define a property with that name

#### containsValue public boolean containsValue([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Returns true if the bean defines a property whose current value is the given object.Specified by: [containsValue](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [containsValue](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#containsValue-java.lang.Object-) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: value - the value to check Returns: false true if the bean has at least one property whose current value is that object, false otherwise

#### get public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) get([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns the value of the bean's property with the given name. The given name must be a [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) and must not be null; otherwise, this method returns null. If the bean defines a property with the given name, the value of that property is returned. Otherwise, null is returned. Write-only properties will not be matched as the test operates against property read methods.Specified by: [get](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#get-java.lang.Object-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [get](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#get-java.lang.Object-) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: name - the name of the property whose value to return Returns: the value of the property with that name

#### put public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) put([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true), [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) Sets the bean property with the given name to the given value.Specified by: [put](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [put](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#put-K-V-) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: name - the name of the property to set value - the value to set that property to Returns: the previous value of that property Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the given name is null; if the given name is not a [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true); if the bean doesn't define a property with that name; or if the bean property with that name is read-only [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if an error occurs creating the method args

#### size public int size() Returns the number of properties defined by the bean.Specified by: [size](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#size--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [size](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#size--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: the number of properties defined by the bean

#### keySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> keySet() Get the keys for this BeanMap. Write-only properties are **not** included in the returned set of property names, although it is possible to set their value and to get their type.Specified by: [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#keySet--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: BeanMap keys. The Set returned by this method is not modifiable.

#### entrySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>> entrySet() Gets a Set of MapEntry objects that are the mappings for this BeanMap. Each MapEntry can be set but not removed.Specified by: [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#entrySet--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: the unmodifiable set of mappings

#### values public [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> values() Returns the values for the BeanMap.Specified by: [values](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [values](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true#values--) in class [AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: values for the BeanMap. The returned collection is not modifiable.

#### getType public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getType([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Returns the type of the property with the given name.Parameters: name - the name of the property Returns: the type of the property, or null if no such property exists

#### keyIterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> keyIterator() Convenience method for getting an iterator over the keys. Write-only properties will not be returned in the iterator.Returns: an iterator over the keys

#### valueIterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> valueIterator() Convenience method for getting an iterator over the values.Returns: an iterator over the values

#### entryIterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>> entryIterator() Convenience method for getting an iterator over the entries.Returns: an iterator over the entries

#### getBean public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getBean() Returns the bean currently being operated on. The return value may be null if this map is empty.Returns: the bean being operated on by this map

#### setBean public void setBean([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) newBean) Sets the bean to be operated on by this map. The given value may be null, in which case this map will be empty.Parameters: newBean - the new bean to operate on

#### getReadMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getReadMethod([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Returns the accessor for the property with the given name.Parameters: name - the name of the property Returns: the accessor method for the property, or null

#### getWriteMethod public [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getWriteMethod([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Returns the mutator for the property with the given name.Parameters: name - the name of the property Returns: the mutator method for the property, or null

#### getReadMethod protected [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getReadMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns the accessor for the property with the given name.Parameters: name - the name of the property Returns: null if the name is null; null if the name is not a [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true); null if no such property exists; or the accessor method for that property

#### getWriteMethod protected [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getWriteMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) name) Returns the mutator for the property with the given name.Parameters: name - the name of the Returns: null if the name is null; null if the name is not a [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true); null if no such property exists; null if the property is read-only; or the mutator method for that property

#### reinitialise protected void reinitialise() Reinitializes this bean. Called during [setBean(Object)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#setBean-java.lang.Object-). Does introspection to find properties.

#### firePropertyChange protected void firePropertyChange([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) oldValue, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) newValue) Called during a successful [put(Object,Object)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#put-java.lang.Object-java.lang.Object-) operation. Default implementation does nothing. Override to be notified of property changes in the bean caused by this map.Parameters: key - the name of the property that changed oldValue - the old value for that property newValue - the new value for that property

#### createWriteMethodArguments protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] createWriteMethodArguments([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) method, [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), [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) Creates an array of parameters to pass to the given mutator method. If the given object is not the right type to pass to the method directly, it will be converted using [convertType(Class,Object)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#convertType-java.lang.Class-java.lang.Object-).Parameters: method - the mutator method value - the value to pass to the mutator method Returns: an array containing one object that is either the given value or a transformed value Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if [convertType(Class,Object)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#convertType-java.lang.Class-java.lang.Object-) raises it [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if any other exception is raised by [convertType(Class,Object)](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html#convertType-java.lang.Class-java.lang.Object-) [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if an error occurs creating the method args

#### convertType protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) convertType([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> newType, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) Converts the given value to the given type. First, reflection is is used to find a public constructor declared by the given class that takes one argument, which must be the precise type of the given value. If such a constructor is found, a new object is created by passing the given value to that constructor, and the newly constructed object is returned. If no such constructor exists, and the given type is a primitive type, then the given value is converted to a string using its [toString()](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--) method, and that string is parsed into the correct primitive type using, for instance, [Integer.valueOf(String)](https://docs.oracle.com/javase/7/docs/api/java/lang/Integer.html?is-external=true#valueOf-java.lang.String-) to convert the string into an int. If no special constructor exists and the given type is not a primitive type, this method returns the original value.Parameters: newType - the type to convert the value to value - the value to convert Returns: the converted value Throws: [NumberFormatException](https://docs.oracle.com/javase/7/docs/api/java/lang/NumberFormatException.html?is-external=true) - if newType is a primitive type, and the string representation of the given value cannot be converted to that type [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - if the constructor found with reflection raises it [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the constructor found with reflection raises it [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - never [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - never

#### getTypeTransformer protected org.apache.commons.collections.Transformer getTypeTransformer([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> aType) Returns a transformer for the given primitive type.Parameters: aType - the primitive type whose transformer to return Returns: a transformer that will convert strings into that type, or null if the given type is not a primitive type

#### logInfo protected void logInfo([Exception](https://docs.oracle.com/javase/7/docs/api/java/lang/Exception.html?is-external=true) ex) Logs the given exception to System.out. Used to display warnings while accessing/mutating the bean.Parameters: ex - the exception to log

#### logWarn protected void logWarn([Exception](https://docs.oracle.com/javase/7/docs/api/java/lang/Exception.html?is-external=true) ex) Logs the given exception to System.err. Used to display errors while accessing/mutating the bean.Parameters: ex - the exception to log

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