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[Skip navigation links](#1fob9te)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/DynaBeanPropertyMapDecorator.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/beanutils/DynaBeanMapDecorator.html)
* [Next Class](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/beanutils/DynaBeanPropertyMapDecorator.html)
* [No Frames](http://docs.google.com/DynaBeanPropertyMapDecorator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#tyjcwt) |
* [Method](#3dy6vkm)
* Detail:
* Field |
* [Constr](#17dp8vu) |
* [Method](#lnxbz9)

org.apache.commons.beanutils

## Class DynaBeanPropertyMapDecorator

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.beanutils.BaseDynaBeanMapDecorator](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)>
    - org.apache.commons.beanutils.DynaBeanPropertyMapDecorator
* All Implemented Interfaces: [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)>  
    
  public class DynaBeanPropertyMapDecorator  
  extends [BaseDynaBeanMapDecorator](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)>  
  Decorates a [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) to provide Map behavior.  
  The motivation for this implementation is to provide access to [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) properties in technologies that are unaware of BeanUtils and [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html)s - such as the expression languages of JSTL and JSF.  
  This can be achieved either by wrapping the [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) prior to providing it to the technology to process or by providing a Map accessor method on the DynaBean implementation:  
   public Map<String, Object> getMap() {  
   return new DynaBeanPropertyMapDecorator(this);  
   }

This, for example, could be used in JSTL in the following way to access a DynaBean's fooProperty:

* ${myDynaBean.**map**.fooProperty}

### Usage

To decorate a [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) simply instantiate this class with the target [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html):

* Map<String, Object> fooMap = new DynaBeanPropertyMapDecorator(fooDynaBean);

The above example creates a ***read only*** Map. To create a Map which can be modified, construct a DynaBeanPropertyMapDecorator with the ***read only*** attribute set to false:

* Map<String, Object> fooMap = new DynaBeanPropertyMapDecorator(fooDynaBean, false);

### Limitations

In this implementation the entrySet(), keySet() and values() methods create an ***unmodifiable*** Set and it does not support the Map's clear() and remove() operations.

Since: BeanUtils 1.9.0 Version: $Id$

### Nested Class Summary

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

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [DynaBeanPropertyMapDecorator](http://docs.google.com/org/apache/commons/beanutils/DynaBeanPropertyMapDecorator.html#DynaBeanPropertyMapDecorator-org.apache.commons.beanutils.DynaBean-)([DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) dynaBean) Constructs a read only Map for the specified [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html). |
| * + [DynaBeanPropertyMapDecorator](http://docs.google.com/org/apache/commons/beanutils/DynaBeanPropertyMapDecorator.html#DynaBeanPropertyMapDecorator-org.apache.commons.beanutils.DynaBean-boolean-)([DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) dynaBean, boolean readOnly) Construct a Map for the specified [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html). |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [convertKey](http://docs.google.com/org/apache/commons/beanutils/DynaBeanPropertyMapDecorator.html#convertKey-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName) Converts the name of a property to the key type of this decorator. |

### Methods inherited from class org.apache.commons.beanutils.[**BaseDynaBeanMapDecorator**](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html)[clear](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#clear--), [containsKey](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#containsKey-java.lang.Object-), [containsValue](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#containsValue-java.lang.Object-), [entrySet](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#entrySet--), [get](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#get-java.lang.Object-), [getDynaBean](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#getDynaBean--), [isEmpty](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#isEmpty--), [isReadOnly](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#isReadOnly--), [keySet](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#keySet--), [put](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#put-K-java.lang.Object-), [putAll](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#putAll-java.util.Map-), [remove](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#remove-java.lang.Object-), [size](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#size--), [values](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#values--)

### 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-)

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

### Constructor Detail

#### DynaBeanPropertyMapDecorator public DynaBeanPropertyMapDecorator([DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) dynaBean, boolean readOnly) Construct a Map for the specified [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html).Parameters: dynaBean - The dyna bean being decorated readOnly - true if the Map is read only otherwise false Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) is null.

#### DynaBeanPropertyMapDecorator public DynaBeanPropertyMapDecorator([DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) dynaBean) Constructs a read only Map for the specified [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html).Parameters: dynaBean - The dyna bean being decorated Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) is null.

### Method Detail

#### convertKey protected [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) convertKey([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propertyName) Description copied from class: [BaseDynaBeanMapDecorator](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#convertKey-java.lang.String-) Converts the name of a property to the key type of this decorator.Specified by: [convertKey](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html#convertKey-java.lang.String-) in class [BaseDynaBeanMapDecorator](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> Parameters: propertyName - the name of a property Returns: the converted key to be used in the decorated map

[Skip navigation links](#2jxsxqh)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/DynaBeanPropertyMapDecorator.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/beanutils/DynaBeanMapDecorator.html)
* [Next Class](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/beanutils/DynaBeanPropertyMapDecorator.html)
* [No Frames](http://docs.google.com/DynaBeanPropertyMapDecorator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#tyjcwt) |
* [Method](#3dy6vkm)
* Detail:
* Field |
* [Constr](#17dp8vu) |
* [Method](#lnxbz9)

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