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org.apache.commons.beanutils

## Class BasicDynaBean

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.BasicDynaBean
* All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html)  
    
  public class BasicDynaBean  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html), [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Minimal implementation of the DynaBean interface. Can be used as a convenience base class for more sophisticated implementations.  
  **IMPLEMENTATION NOTE** - Instances of this class that are accessed from multiple threads simultaneously need to be synchronized.  
  **IMPLEMENTATION NOTE** - Instances of this class can be successfully serialized and deserialized **ONLY** if all property values are Serializable.Version: $Id$ See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.beanutils.BasicDynaBean)

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + protected [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) | * + [dynaClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#dynaClass) The DynaClass "base class" that this DynaBean is associated with. |
| * + protected [HashMap](https://docs.oracle.com/javase/7/docs/api/java/util/HashMap.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)> | * + [values](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#values) The set of property values for this DynaBean, keyed by property name. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [BasicDynaBean](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#BasicDynaBean-org.apache.commons.beanutils.DynaClass-)([DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) dynaClass) Construct a new DynaBean associated with the specified DynaClass instance. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [contains](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#contains-java.lang.String-java.lang.String-)([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) Does the specified mapped property contain a value for the specified key value? |
| * + [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/BasicDynaBean.html#get-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of a simple property with the specified name. |
| * + [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/BasicDynaBean.html#get-java.lang.String-int-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index) Return the value of an indexed property with the specified name. |
| * + [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/BasicDynaBean.html#get-java.lang.String-java.lang.String-)([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 a mapped property with the specified name, or null if there is no value for the specified key. |
| * + [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) | * + [getDynaClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#getDynaClass--)() Return the DynaClass instance that describes the set of properties available for this DynaBean. |
| * + protected [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html) | * + [getDynaProperty](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#getDynaProperty-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the property descriptor for the specified property name. |
| * + [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)> | * + [getMap](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#getMap--)() Return a Map representation of this DynaBean. |
| * + protected boolean | * + [isAssignable](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#isAssignable-java.lang.Class-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dest, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> source) Is an object of the source class assignable to the destination class? |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#remove-java.lang.String-java.lang.String-)([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) Remove any existing value for the specified key on the specified mapped property. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#set-java.lang.String-int-java.lang.Object-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of an indexed property with the specified name. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#set-java.lang.String-java.lang.Object-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of a simple property with the specified name. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html#set-java.lang.String-java.lang.String-java.lang.Object-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of a mapped property with the specified name. |

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

### Field Detail

#### dynaClass protected [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) dynaClass The DynaClass "base class" that this DynaBean is associated with.

#### values protected [HashMap](https://docs.oracle.com/javase/7/docs/api/java/util/HashMap.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)> values The set of property values for this DynaBean, keyed by property name.

### Constructor Detail

#### BasicDynaBean public BasicDynaBean([DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) dynaClass) Construct a new DynaBean associated with the specified DynaClass instance.Parameters: dynaClass - The DynaClass we are associated with

### Method Detail

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

* + - Return a Map representation of this DynaBean.  
      This, for example, could be used in JSTL in the following way to access a DynaBean's fooProperty:
      * ${myDynaBean.**map**.fooProperty}

Returns: a Map representation of this DynaBean Since: 1.8.0

#### contains public boolean contains([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) Does the specified mapped property contain a value for the specified key value?Specified by: [contains](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#contains-java.lang.String-java.lang.String-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property to check key - Name of the key to check Returns: true if the mapped property contains a value for the specified key, otherwise false Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name

#### get public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) get([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of a simple property with the specified name.Specified by: [get](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#get-java.lang.String-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property whose value is to be retrieved Returns: The property's value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name

#### get public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) get([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index) Return the value of an indexed property with the specified name.Specified by: [get](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#get-java.lang.String-int-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property whose value is to be retrieved index - Index of the value to be retrieved Returns: The indexed property's value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the specified property exists, but is not indexed [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the specified index is outside the range of the underlying property [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if no array or List has been initialized for this property

#### get public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) get([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 a mapped property with the specified name, or null if there is no value for the specified key.Specified by: [get](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#get-java.lang.String-java.lang.String-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property whose value is to be retrieved key - Key of the value to be retrieved Returns: The mapped property's value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the specified property exists, but is not mapped

#### getDynaClass public [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) getDynaClass() Return the DynaClass instance that describes the set of properties available for this DynaBean.Specified by: [getDynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#getDynaClass--) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Returns: The associated DynaClass

#### remove public void remove([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) Remove any existing value for the specified key on the specified mapped property.Specified by: [remove](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#remove-java.lang.String-java.lang.String-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property for which a value is to be removed key - Key of the value to be removed Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name

#### set public void set([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of a simple property with the specified name.Specified by: [set](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#set-java.lang.String-java.lang.Object-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property whose value is to be set value - Value to which this property is to be set Throws: [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) - if the specified value cannot be converted to the type required for this property [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if an attempt is made to set a primitive property to null

#### set public void set([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of an indexed property with the specified name.Specified by: [set](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#set-java.lang.String-int-java.lang.Object-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property whose value is to be set index - Index of the property to be set value - Value to which this property is to be set Throws: [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) - if the specified value cannot be converted to the type required for this property [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the specified property exists, but is not indexed [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the specified index is outside the range of the underlying property

#### set public void set([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the value of a mapped property with the specified name.Specified by: [set](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html#set-java.lang.String-java.lang.String-java.lang.Object-) in interface [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) Parameters: name - Name of the property whose value is to be set key - Key of the property to be set value - Value to which this property is to be set Throws: [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) - if the specified value cannot be converted to the type required for this property [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if there is no property of the specified name [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the specified property exists, but is not mapped

#### getDynaProperty protected [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html) getDynaProperty([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the property descriptor for the specified property name.Parameters: name - Name of the property for which to retrieve the descriptor Returns: The property descriptor Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if this is not a valid property name for our DynaClass

#### isAssignable protected boolean isAssignable([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dest, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> source) Is an object of the source class assignable to the destination class?Parameters: dest - Destination class source - Source class Returns: true if the source class is assignable to the destination class, otherwise false

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