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org.apache.commons.beanutils

## Class BasicDynaClass

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.BasicDynaClass
* All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) Direct Known Subclasses: [LazyDynaClass](http://docs.google.com/org/apache/commons/beanutils/LazyDynaClass.html)  
    
  public class BasicDynaClass  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html), [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Minimal implementation of the DynaClass interface. Can be used as a convenience base class for more sophisticated implementations.\*  
  **IMPLEMENTATION NOTE** - The DynaBean implementation class supplied to our constructor MUST have a one-argument constructor of its own that accepts a DynaClass. This is used to associate the DynaBean instance with this DynaClass.Version: $Id$ See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.beanutils.BasicDynaClass)

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + protected [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<?> | * + [constructor](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#constructor) The constructor of the dynaBeanClass that we will use for creating new instances. |
| * + protected static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] | * + [constructorTypes](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#constructorTypes) The method signature of the constructor we will use to create new DynaBean instances. |
| * + protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] | * + [constructorValues](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#constructorValues) The argument values to be passed to the constructore we will use to create new DynaBean instances. |
| * + protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [dynaBeanClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#dynaBeanClass) The DynaBean implementation class we will use for creating new instances. |
| * + protected [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [name](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#name) The "name" of this DynaBean class. |
| * + protected [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] | * + [properties](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#properties) The set of dynamic properties that are part of this DynaClass. |
| * + 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),[DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)> | * + [propertiesMap](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#propertiesMap) The set of dynamic properties that are part of this DynaClass, keyed by the property name. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [BasicDynaClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#BasicDynaClass--)() Construct a new BasicDynaClass with default parameters. |
| * + [BasicDynaClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#BasicDynaClass-java.lang.String-java.lang.Class-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass) Construct a new BasicDynaClass with the specified parameters. |
| * + [BasicDynaClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#BasicDynaClass-java.lang.String-java.lang.Class-org.apache.commons.beanutils.DynaProperty:A-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass, [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] properties) Construct a new BasicDynaClass with the specified parameters. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getDynaBeanClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#getDynaBeanClass--)() Return the Class object we will use to create new instances in the newInstance() method. |
| * + [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] | * + [getDynaProperties](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#getDynaProperties--)() Return an array of ProperyDescriptors for the properties currently defined in this DynaClass. |
| * + [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html) | * + [getDynaProperty](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#getDynaProperty-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return a property descriptor for the specified property, if it exists; otherwise, return null. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getName](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#getName--)() Return the name of this DynaClass (analogous to the getName() method of java.lang.ClassDynaClass implementation class to support different dynamic classes, with different sets of properties. |
| * + [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) | * + [newInstance](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#newInstance--)() Instantiate and return a new DynaBean instance, associated with this DynaClass. |
| * + protected void | * + [setDynaBeanClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#setDynaBeanClass-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass) Set the Class object we will use to create new instances in the newInstance() method. |
| * + protected void | * + [setProperties](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html#setProperties-org.apache.commons.beanutils.DynaProperty:A-)([DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] properties) Set the list of dynamic properties supported by this DynaClass. |

### 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

#### constructor protected transient [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<?> constructor The constructor of the dynaBeanClass that we will use for creating new instances.

#### constructorTypes protected static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] constructorTypes The method signature of the constructor we will use to create new DynaBean instances.

#### constructorValues protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] constructorValues The argument values to be passed to the constructore we will use to create new DynaBean instances.

#### dynaBeanClass protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass The DynaBean implementation class we will use for creating new instances.

#### name protected [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name The "name" of this DynaBean class.

#### properties protected [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] properties The set of dynamic properties that are part of this DynaClass.

#### propertiesMap 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),[DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)> propertiesMap The set of dynamic properties that are part of this DynaClass, keyed by the property name. Individual descriptor instances will be the same instances as those in the properties list.

### Constructor Detail

#### BasicDynaClass public BasicDynaClass() Construct a new BasicDynaClass with default parameters.

#### BasicDynaClass public BasicDynaClass([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass) Construct a new BasicDynaClass with the specified parameters.Parameters: name - Name of this DynaBean class dynaBeanClass - The implementation class for new instances

#### BasicDynaClass public BasicDynaClass([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass, [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] properties) Construct a new BasicDynaClass with the specified parameters.Parameters: name - Name of this DynaBean class dynaBeanClass - The implementation class for new intances properties - Property descriptors for the supported properties

### Method Detail

#### getName public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getName() Return the name of this DynaClass (analogous to the getName() method of java.lang.ClassDynaClass implementation class to support different dynamic classes, with different sets of properties.Specified by: [getName](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html#getName--) in interface [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) Returns: the name of the DynaClass

#### getDynaProperty public [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 a property descriptor for the specified property, if it exists; otherwise, return null.Specified by: [getDynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html#getDynaProperty-java.lang.String-) in interface [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) Parameters: name - Name of the dynamic property for which a descriptor is requested Returns: The descriptor for the specified property Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if no property name is specified

#### getDynaProperties public [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] getDynaProperties() Return an array of ProperyDescriptors for the properties currently defined in this DynaClass. If no properties are defined, a zero-length array will be returned. **FIXME** - Should we really be implementing getBeanInfo() instead, which returns property descriptors and a bunch of other stuff?Specified by: [getDynaProperties](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html#getDynaProperties--) in interface [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) Returns: the set of properties for this DynaClass

#### newInstance public [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html) newInstance() 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) Instantiate and return a new DynaBean instance, associated with this DynaClass.Specified by: [newInstance](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html#newInstance--) in interface [DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html) Returns: A new DynaBean instance Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the Class or the appropriate constructor is not accessible [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - if this Class represents an abstract class, an array class, a primitive type, or void; or if instantiation fails for some other reason

#### getDynaBeanClass public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getDynaBeanClass() Return the Class object we will use to create new instances in the newInstance() method. This Class **MUST** implement the DynaBean interface.Returns: The class of the [DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html)

#### setDynaBeanClass protected void setDynaBeanClass([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> dynaBeanClass) Set the Class object we will use to create new instances in the newInstance() method. This Class **MUST** implement the DynaBean interface.Parameters: dynaBeanClass - The new Class object Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the specified Class does not implement the DynaBean interface

#### setProperties protected void setProperties([DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html)[] properties) Set the list of dynamic properties supported by this DynaClass.Parameters: properties - List of dynamic properties to be supported

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