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org.apache.commons.beanutils

## Class DynaProperty

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.DynaProperty
* All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
    
  public class DynaProperty  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  The metadata describing an individual property of a DynaBean.  
  The meta contains an *optional* content type property ([getContentType()](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#getContentType--)) for use by mapped and iterated properties. A mapped or iterated property may choose to indicate the type it expects. The DynaBean implementation may choose to enforce this type on its entries. Alternatively, an implementatin may choose to ignore this property. All keys for maps must be of type String so no meta data is needed for map keys.Version: $Id$ See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.beanutils.DynaProperty)

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [contentType](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#contentType) The *(optional)* type of content elements for indexed DynaProperty |
| * + 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/DynaProperty.html#name) Property name |
| * + protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [type](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#type) Property type |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#DynaProperty-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Construct a property that accepts any data type. |
| * + [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#DynaProperty-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)<?> type) Construct a property of the specified data type. |
| * + [DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#DynaProperty-java.lang.String-java.lang.Class-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)<?> type, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> contentType) Construct an indexed or mapped DynaProperty that supports (pseudo)-introspection of the content type. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [equals](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Checks this instance against the specified Object for equality. |
| * + [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getContentType](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#getContentType--)() Gets the *(optional)* type of the indexed content for DynaProperty's that support this feature. |
| * + [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/DynaProperty.html#getName--)() Get the name of this property. |
| * + [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/DynaProperty.html#getType--)() Gets the Java class representing the data type of the underlying property values. |
| * + int | * + [hashCode](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#hashCode--)() |
| * + boolean | * + [isIndexed](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#isIndexed--)() Does this property represent an indexed value (ie an array or List)? |
| * + boolean | * + [isMapped](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html#isMapped--)() Does this property represent a mapped value (ie a Map)? |
| * + [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/DynaProperty.html#toString--)() Return a String representation of this Object. |

### 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--), [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-)

### Field Detail

#### name protected [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name Property name

#### type protected transient [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type Property type

#### contentType protected transient [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> contentType The *(optional)* type of content elements for indexed DynaProperty

### Constructor Detail

#### DynaProperty public DynaProperty([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Construct a property that accepts any data type.Parameters: name - Name of the property being described

#### DynaProperty public DynaProperty([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)<?> type) Construct a property of the specified data type.Parameters: name - Name of the property being described type - Java class representing the property data type

#### DynaProperty public DynaProperty([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)<?> type, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> contentType) Construct an indexed or mapped DynaProperty that supports (pseudo)-introspection of the content type.Parameters: name - Name of the property being described type - Java class representing the property data type contentType - Class that all indexed or mapped elements are instances of

### Method Detail

#### getName public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getName() Get the name of this property.Returns: the name of the property

#### getType public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getType() Gets the Java class representing the data type of the underlying property values. There are issues with serializing primitive class types on certain JVM versions (including java 1.3). Therefore, this field **must not be serialized using the standard methods**. **Please leave this field as transient**Returns: the property type

#### getContentType public [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getContentType() Gets the *(optional)* type of the indexed content for DynaProperty's that support this feature. There are issues with serializing primitive class types on certain JVM versions (including java 1.3). Therefore, this field **must not be serialized using the standard methods**.Returns: the Class for the content type if this is an indexed DynaProperty and this feature is supported. Otherwise null.

#### isIndexed public boolean isIndexed() Does this property represent an indexed value (ie an array or List)?Returns: true if the property is indexed (i.e. is a List or array), otherwise false

#### isMapped public boolean isMapped() Does this property represent a mapped value (ie a Map)?Returns: true if the property is a Map otherwise false

#### equals public boolean equals([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Checks this instance against the specified Object for equality. Overrides the default refererence test for equality provided by [Object.equals(Object)](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-)Overrides: [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Parameters: obj - The object to compare to Returns: true if object is a dyna property with the same name type and content type, otherwise false Since: 1.8.0

#### hashCode public int hashCode()Overrides: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: the hashcode for this dyna property Since: 1.8.0 See Also: [Object.hashCode()](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--)

#### toString public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) toString() Return a String representation of this Object.Overrides: [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: a String representation of the dyna property

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