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org.apache.commons.beanutils.expression

## Class DefaultResolver

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.expression.DefaultResolver
* All Implemented Interfaces: [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html)  
    
  public class DefaultResolver  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html)
* Default Property Name Expression [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Implementation.  
  This class assists in resolving property names in the following five formats, with the layout of an identifying String in parentheses:
  + **Simple (name)** - The specified name identifies an individual property of a particular JavaBean. The name of the actual getter or setter method to be used is determined using standard JavaBeans instrospection, so that (unless overridden by a BeanInfo class, a property named "xyz" will have a getter method named getXyz() or (for boolean properties only) isXyz(), and a setter method named setXyz().
  + **Nested (name1.name2.name3)** The first name element is used to select a property getter, as for simple references above. The object returned for this property is then consulted, using the same approach, for a property getter for a property named name2, and so on. The property value that is ultimately retrieved or modified is the one identified by the last name element.
  + **Indexed (name[index])** - The underlying property value is assumed to be an array, or this JavaBean is assumed to have indexed property getter and setter methods. The appropriate (zero-relative) entry in the array is selected. List objects are now also supported for read/write. You simply need to define a getter that returns the List
  + **Mapped (name(key))** - The JavaBean is assumed to have an property getter and setter methods with an additional attribute of type java.lang.String.
  + **Combined (name1.name2[index].name3(key))** - Combining mapped, nested, and indexed references is also supported.

Since: 1.8.0 Version: $Id$

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [DefaultResolver](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#DefaultResolver--)() Default Constructor. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + int | * + [getIndex](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#getIndex-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Return the index value from the property expression or -1. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getKey](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#getKey-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Return the map key from the property expression or null. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getProperty](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#getProperty-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Return the property name from the property expression. |
| * + boolean | * + [hasNested](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#hasNested-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Indicates whether or not the expression contains nested property expressions or not. |
| * + boolean | * + [isIndexed](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#isIndexed-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Indicate whether the expression is for an indexed property or not. |
| * + boolean | * + [isMapped](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#isMapped-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Indicate whether the expression is for a mapped property or not. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [next](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#next-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Extract the next property expression from the current expression. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [remove](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html#remove-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Remove the last property expresson from the current expression. |

### 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-)

### Constructor Detail

#### DefaultResolver public DefaultResolver() Default Constructor.

### Method Detail

#### getIndex public int getIndex([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Return the index value from the property expression or -1.Specified by: [getIndex](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#getIndex-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: The index value or -1 if the property is not indexed Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - If the indexed property is illegally formed or has an invalid (non-numeric) value.

#### getKey public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getKey([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Return the map key from the property expression or null.Specified by: [getKey](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#getKey-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: The index value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - If the mapped property is illegally formed.

#### getProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getProperty([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Return the property name from the property expression.Specified by: [getProperty](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#getProperty-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: The property name

#### hasNested public boolean hasNested([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Indicates whether or not the expression contains nested property expressions or not.Specified by: [hasNested](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#hasNested-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: The next property expression

#### isIndexed public boolean isIndexed([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Indicate whether the expression is for an indexed property or not.Specified by: [isIndexed](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#isIndexed-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: true if the expresion is indexed, otherwise false

#### isMapped public boolean isMapped([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Indicate whether the expression is for a mapped property or not.Specified by: [isMapped](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#isMapped-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: true if the expresion is mapped, otherwise false

#### next public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) next([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Extract the next property expression from the current expression.Specified by: [next](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#next-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: The next property expression

#### remove public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) remove([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) expression) Remove the last property expresson from the current expression.Specified by: [remove](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html#remove-java.lang.String-) in interface [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) Parameters: expression - The property expression Returns: The new expression value, with first property expression removed - null if there are no more expressions

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