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org.apache.commons.beanutils

## Class FluentPropertyBeanIntrospector

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.FluentPropertyBeanIntrospector
* All Implemented Interfaces: [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html)  
    
  public class FluentPropertyBeanIntrospector  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html)  
  An implementation of the BeanIntrospector interface which can detect write methods for properties used in fluent API scenario.  
  A *fluent API* allows setting multiple properties using a single statement by supporting so-called *method chaining*: Methods for setting a property value do not return **void**, but an object which can be called for setting another property. An example of such a fluent API could look as follows:  
   public class FooBuilder {  
   public FooBuilder setFooProperty1(String value) {  
   ...  
   return this;  
   }  
    
   public FooBuilder setFooProperty2(int value) {  
   ...  
   return this;  
   }  
   }  
   Per default, PropertyUtils does not detect methods like this because, having a non-**void** return type, they violate the Java Beans specification.  
    
  This class is more tolerant with regards to the return type of a set method. It basically iterates over all methods of a class and filters them for a configurable prefix (the default prefix is set). It then generates corresponding PropertyDescriptor objects for the methods found which use these methods as write methods.  
  An instance of this class is intended to collaborate with a [DefaultBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/DefaultBeanIntrospector.html) object. So best results are achieved by adding this instance as custom BeanIntrospector after the DefaultBeanIntrospector object. Then default introspection finds read-only properties because it does not detect the write methods with a non-**void** return type. FluentPropertyBeanIntrospector completes the descriptors for these properties by setting the correct write method.Since: 1.9 Version: $Id$

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [DEFAULT\_WRITE\_METHOD\_PREFIX](http://docs.google.com/org/apache/commons/beanutils/FluentPropertyBeanIntrospector.html#DEFAULT_WRITE_METHOD_PREFIX) The default prefix for write methods. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [FluentPropertyBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/FluentPropertyBeanIntrospector.html#FluentPropertyBeanIntrospector--)() Creates a new instance of FluentPropertyBeanIntrospector and sets the default prefix for write methods. |
| * + [FluentPropertyBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/FluentPropertyBeanIntrospector.html#FluentPropertyBeanIntrospector-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) writePrefix) Creates a new instance of FluentPropertyBeanIntrospector and initializes it with the prefix for write methods used by the classes to be inspected. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getWriteMethodPrefix](http://docs.google.com/org/apache/commons/beanutils/FluentPropertyBeanIntrospector.html#getWriteMethodPrefix--)() Returns the prefix for write methods this instance scans for. |
| * + void | * + [introspect](http://docs.google.com/org/apache/commons/beanutils/FluentPropertyBeanIntrospector.html#introspect-org.apache.commons.beanutils.IntrospectionContext-)([IntrospectionContext](http://docs.google.com/org/apache/commons/beanutils/IntrospectionContext.html) icontext) Performs introspection. |

### 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

#### DEFAULT\_WRITE\_METHOD\_PREFIX public static final [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) DEFAULT\_WRITE\_METHOD\_PREFIX The default prefix for write methods.See Also: [Constant Field Values](http://docs.google.com/constant-values.html#org.apache.commons.beanutils.FluentPropertyBeanIntrospector.DEFAULT_WRITE_METHOD_PREFIX)

### Constructor Detail

#### FluentPropertyBeanIntrospector public FluentPropertyBeanIntrospector([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) writePrefix) Creates a new instance of FluentPropertyBeanIntrospector and initializes it with the prefix for write methods used by the classes to be inspected.Parameters: writePrefix - the prefix for write methods (must not be **null**) Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the prefix is **null**

#### FluentPropertyBeanIntrospector public FluentPropertyBeanIntrospector() Creates a new instance of FluentPropertyBeanIntrospector and sets the default prefix for write methods.

### Method Detail

#### getWriteMethodPrefix public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getWriteMethodPrefix() Returns the prefix for write methods this instance scans for.Returns: the prefix for write methods

#### introspect public void introspect([IntrospectionContext](http://docs.google.com/org/apache/commons/beanutils/IntrospectionContext.html) icontext) throws [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) Performs introspection. This method scans the current class's methods for property write methods which have not been discovered by default introspection.Specified by: [introspect](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html#introspect-org.apache.commons.beanutils.IntrospectionContext-) in interface [BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html) Parameters: icontext - the introspection context Throws: [IntrospectionException](https://docs.oracle.com/javase/7/docs/api/java/beans/IntrospectionException.html?is-external=true) - if an error occurs

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