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Hierarchy For All Packages

Package Hierarchies:

* [org.apache.commons.beanutils](http://docs.google.com/org/apache/commons/beanutils/package-tree.html),
* [org.apache.commons.beanutils.converters](http://docs.google.com/org/apache/commons/beanutils/converters/package-tree.html),
* [org.apache.commons.beanutils.expression](http://docs.google.com/org/apache/commons/beanutils/expression/package-tree.html),
* [org.apache.commons.beanutils.locale](http://docs.google.com/org/apache/commons/beanutils/locale/package-tree.html),
* [org.apache.commons.beanutils.locale.converters](http://docs.google.com/org/apache/commons/beanutils/locale/converters/package-tree.html)

Class Hierarchy

* java.lang.[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.converters.[AbstractArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractArrayConverter.html) (implements org.apache.commons.beanutils.[Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html))
    - org.apache.commons.beanutils.converters.[BooleanArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanArrayConverter.html)
    - org.apache.commons.beanutils.converters.[ByteArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/ByteArrayConverter.html)
    - org.apache.commons.beanutils.converters.[CharacterArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/CharacterArrayConverter.html)
    - org.apache.commons.beanutils.converters.[DoubleArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/DoubleArrayConverter.html)
    - org.apache.commons.beanutils.converters.[FloatArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/FloatArrayConverter.html)
    - org.apache.commons.beanutils.converters.[IntegerArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/IntegerArrayConverter.html)
    - org.apache.commons.beanutils.converters.[LongArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/LongArrayConverter.html)
    - org.apache.commons.beanutils.converters.[ShortArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/ShortArrayConverter.html)
    - org.apache.commons.beanutils.converters.[StringArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/StringArrayConverter.html)
  + java.util.[AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<E> (implements java.util.[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>)
    - java.util.[AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<E> (implements java.util.[List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E>)
      * java.util.[ArrayList](https://docs.oracle.com/javase/7/docs/api/java/util/ArrayList.html?is-external=true)<E> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.util.[List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E>, java.util.[RandomAccess](https://docs.oracle.com/javase/7/docs/api/java/util/RandomAccess.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.beanutils.[LazyDynaList](http://docs.google.com/org/apache/commons/beanutils/LazyDynaList.html)
  + org.apache.commons.beanutils.converters.[AbstractConverter](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html) (implements org.apache.commons.beanutils.[Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html))
    - org.apache.commons.beanutils.converters.[ArrayConverter](http://docs.google.com/org/apache/commons/beanutils/converters/ArrayConverter.html)
    - org.apache.commons.beanutils.converters.[BooleanConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html)
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    - org.apache.commons.beanutils.converters.[DateTimeConverter](http://docs.google.com/org/apache/commons/beanutils/converters/DateTimeConverter.html)
      * org.apache.commons.beanutils.converters.[CalendarConverter](http://docs.google.com/org/apache/commons/beanutils/converters/CalendarConverter.html)
      * org.apache.commons.beanutils.converters.[DateConverter](http://docs.google.com/org/apache/commons/beanutils/converters/DateConverter.html)
      * org.apache.commons.beanutils.converters.[SqlDateConverter](http://docs.google.com/org/apache/commons/beanutils/converters/SqlDateConverter.html)
      * org.apache.commons.beanutils.converters.[SqlTimeConverter](http://docs.google.com/org/apache/commons/beanutils/converters/SqlTimeConverter.html)
      * org.apache.commons.beanutils.converters.[SqlTimestampConverter](http://docs.google.com/org/apache/commons/beanutils/converters/SqlTimestampConverter.html)
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    - org.apache.commons.beanutils.converters.[NumberConverter](http://docs.google.com/org/apache/commons/beanutils/converters/NumberConverter.html)
      * org.apache.commons.beanutils.converters.[BigDecimalConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BigDecimalConverter.html)
      * org.apache.commons.beanutils.converters.[BigIntegerConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BigIntegerConverter.html)
      * org.apache.commons.beanutils.converters.[ByteConverter](http://docs.google.com/org/apache/commons/beanutils/converters/ByteConverter.html)
      * org.apache.commons.beanutils.converters.[DoubleConverter](http://docs.google.com/org/apache/commons/beanutils/converters/DoubleConverter.html)
      * org.apache.commons.beanutils.converters.[FloatConverter](http://docs.google.com/org/apache/commons/beanutils/converters/FloatConverter.html)
      * org.apache.commons.beanutils.converters.[IntegerConverter](http://docs.google.com/org/apache/commons/beanutils/converters/IntegerConverter.html)
      * org.apache.commons.beanutils.converters.[LongConverter](http://docs.google.com/org/apache/commons/beanutils/converters/LongConverter.html)
      * org.apache.commons.beanutils.converters.[ShortConverter](http://docs.google.com/org/apache/commons/beanutils/converters/ShortConverter.html)
    - org.apache.commons.beanutils.converters.[StringConverter](http://docs.google.com/org/apache/commons/beanutils/converters/StringConverter.html)
    - org.apache.commons.beanutils.converters.[URLConverter](http://docs.google.com/org/apache/commons/beanutils/converters/URLConverter.html)
  + org.apache.commons.collections.keyvalue.AbstractKeyValue (implements org.apache.commons.collections.KeyValue)
    - org.apache.commons.collections.keyvalue.AbstractMapEntry (implements java.util.[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<K,V>)
      * org.apache.commons.beanutils.[BeanMap.Entry](http://docs.google.com/org/apache/commons/beanutils/BeanMap.Entry.html)
  + java.util.[AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<K,V> (implements java.util.[Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>)
    - org.apache.commons.beanutils.[BeanMap](http://docs.google.com/org/apache/commons/beanutils/BeanMap.html) (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true))
  + org.apache.commons.beanutils.[BaseDynaBeanMapDecorator](http://docs.google.com/org/apache/commons/beanutils/BaseDynaBeanMapDecorator.html)<K> (implements java.util.[Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>)
    - org.apache.commons.beanutils.[DynaBeanMapDecorator](http://docs.google.com/org/apache/commons/beanutils/DynaBeanMapDecorator.html)
    - org.apache.commons.beanutils.[DynaBeanPropertyMapDecorator](http://docs.google.com/org/apache/commons/beanutils/DynaBeanPropertyMapDecorator.html)
  + org.apache.commons.beanutils.locale.[BaseLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/BaseLocaleConverter.html) (implements org.apache.commons.beanutils.locale.[LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html))
    - org.apache.commons.beanutils.locale.converters.[DateLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/DateLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[SqlDateLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/SqlDateLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[SqlTimeLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/SqlTimeLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[SqlTimestampLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/SqlTimestampLocaleConverter.html)
    - org.apache.commons.beanutils.locale.converters.[DecimalLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/DecimalLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[BigDecimalLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/BigDecimalLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[BigIntegerLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/BigIntegerLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[ByteLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/ByteLocaleConverter.html)
      * org.apache.commons.beanutils.locale.converters.[DoubleLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/DoubleLocaleConverter.html)
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    - org.apache.commons.beanutils.locale.converters.[StringLocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/converters/StringLocaleConverter.html)
  + org.apache.commons.beanutils.[BasicDynaBean](http://docs.google.com/org/apache/commons/beanutils/BasicDynaBean.html) (implements org.apache.commons.beanutils.[DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
  + org.apache.commons.beanutils.[BasicDynaClass](http://docs.google.com/org/apache/commons/beanutils/BasicDynaClass.html) (implements org.apache.commons.beanutils.[DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - org.apache.commons.beanutils.[LazyDynaClass](http://docs.google.com/org/apache/commons/beanutils/LazyDynaClass.html) (implements org.apache.commons.beanutils.[MutableDynaClass](http://docs.google.com/org/apache/commons/beanutils/MutableDynaClass.html))
  + org.apache.commons.beanutils.[BeanComparator](http://docs.google.com/org/apache/commons/beanutils/BeanComparator.html)<T> (implements java.util.[Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<T>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
  + org.apache.commons.beanutils.[BeanPredicate](http://docs.google.com/org/apache/commons/beanutils/BeanPredicate.html) (implements org.apache.commons.collections.Predicate)
  + org.apache.commons.beanutils.[BeanPropertyValueChangeClosure](http://docs.google.com/org/apache/commons/beanutils/BeanPropertyValueChangeClosure.html) (implements org.apache.commons.collections.Closure)
  + org.apache.commons.beanutils.[BeanPropertyValueEqualsPredicate](http://docs.google.com/org/apache/commons/beanutils/BeanPropertyValueEqualsPredicate.html) (implements org.apache.commons.collections.Predicate)
  + org.apache.commons.beanutils.[BeanToPropertyValueTransformer](http://docs.google.com/org/apache/commons/beanutils/BeanToPropertyValueTransformer.html) (implements org.apache.commons.collections.Transformer)
  + org.apache.commons.beanutils.[BeanUtils](http://docs.google.com/org/apache/commons/beanutils/BeanUtils.html)
    - org.apache.commons.beanutils.locale.[LocaleBeanUtils](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtils.html)
  + org.apache.commons.beanutils.[BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html)
    - org.apache.commons.beanutils.[BeanUtilsBean2](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean2.html)
    - org.apache.commons.beanutils.locale.[LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html)
  + org.apache.commons.beanutils.[ConstructorUtils](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html)
  + org.apache.commons.beanutils.[ContextClassLoaderLocal](http://docs.google.com/org/apache/commons/beanutils/ContextClassLoaderLocal.html)<T>
  + org.apache.commons.beanutils.converters.[ConverterFacade](http://docs.google.com/org/apache/commons/beanutils/converters/ConverterFacade.html) (implements org.apache.commons.beanutils.[Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html))
  + org.apache.commons.beanutils.[ConvertUtils](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html)
  + org.apache.commons.beanutils.[ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html)
    - org.apache.commons.beanutils.[ConvertUtilsBean2](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean2.html)
  + org.apache.commons.beanutils.[DefaultBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/DefaultBeanIntrospector.html) (implements org.apache.commons.beanutils.[BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html))
  + org.apache.commons.beanutils.expression.[DefaultResolver](http://docs.google.com/org/apache/commons/beanutils/expression/DefaultResolver.html) (implements org.apache.commons.beanutils.expression.[Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html))
  + org.apache.commons.beanutils.[DynaProperty](http://docs.google.com/org/apache/commons/beanutils/DynaProperty.html) (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
  + java.beans.[FeatureDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/FeatureDescriptor.html?is-external=true)
    - java.beans.[PropertyDescriptor](https://docs.oracle.com/javase/7/docs/api/java/beans/PropertyDescriptor.html?is-external=true)
      * org.apache.commons.beanutils.[MappedPropertyDescriptor](http://docs.google.com/org/apache/commons/beanutils/MappedPropertyDescriptor.html)
  + org.apache.commons.beanutils.[FluentPropertyBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/FluentPropertyBeanIntrospector.html) (implements org.apache.commons.beanutils.[BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html))
  + org.apache.commons.beanutils.[LazyDynaBean](http://docs.google.com/org/apache/commons/beanutils/LazyDynaBean.html) (implements org.apache.commons.beanutils.[DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - org.apache.commons.beanutils.[LazyDynaMap](http://docs.google.com/org/apache/commons/beanutils/LazyDynaMap.html) (implements org.apache.commons.beanutils.[MutableDynaClass](http://docs.google.com/org/apache/commons/beanutils/MutableDynaClass.html))
  + org.apache.commons.beanutils.locale.[LocaleBeanUtils.Descriptor](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtils.Descriptor.html)
  + org.apache.commons.beanutils.locale.[LocaleBeanUtilsBean.Descriptor](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.Descriptor.html)
  + org.apache.commons.beanutils.locale.[LocaleConvertUtils](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtils.html)
  + org.apache.commons.beanutils.locale.[LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html)
  + org.apache.commons.beanutils.[MethodUtils](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html)
  + org.apache.commons.beanutils.[PropertyUtils](http://docs.google.com/org/apache/commons/beanutils/PropertyUtils.html)
  + org.apache.commons.beanutils.[PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html)
  + org.apache.commons.beanutils.[ResultSetDynaClass](http://docs.google.com/org/apache/commons/beanutils/ResultSetDynaClass.html) (implements org.apache.commons.beanutils.[DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html))
  + org.apache.commons.beanutils.[ResultSetIterator](http://docs.google.com/org/apache/commons/beanutils/ResultSetIterator.html) (implements org.apache.commons.beanutils.[DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html), java.util.[Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>)
  + org.apache.commons.beanutils.[RowSetDynaClass](http://docs.google.com/org/apache/commons/beanutils/RowSetDynaClass.html) (implements org.apache.commons.beanutils.[DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
  + org.apache.commons.beanutils.[SuppressPropertiesBeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/SuppressPropertiesBeanIntrospector.html) (implements org.apache.commons.beanutils.[BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html))
  + java.lang.[Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - java.lang.[Exception](https://docs.oracle.com/javase/7/docs/api/java/lang/Exception.html?is-external=true)
      * java.lang.[RuntimeException](https://docs.oracle.com/javase/7/docs/api/java/lang/RuntimeException.html?is-external=true)
        + org.apache.commons.beanutils.[ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html)
        + java.lang.[IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true)

org.apache.commons.beanutils.[BeanAccessLanguageException](http://docs.google.com/org/apache/commons/beanutils/BeanAccessLanguageException.html)

org.apache.commons.beanutils.[NestedNullException](http://docs.google.com/org/apache/commons/beanutils/NestedNullException.html)

* + org.apache.commons.beanutils.[WrapDynaBean](http://docs.google.com/org/apache/commons/beanutils/WrapDynaBean.html) (implements org.apache.commons.beanutils.[DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - org.apache.commons.beanutils.[ConvertingWrapDynaBean](http://docs.google.com/org/apache/commons/beanutils/ConvertingWrapDynaBean.html)
  + org.apache.commons.beanutils.[WrapDynaClass](http://docs.google.com/org/apache/commons/beanutils/WrapDynaClass.html) (implements org.apache.commons.beanutils.[DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html))

## Interface Hierarchy

* org.apache.commons.beanutils.[BeanIntrospector](http://docs.google.com/org/apache/commons/beanutils/BeanIntrospector.html)
* org.apache.commons.beanutils.[Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html)
  + org.apache.commons.beanutils.locale.[LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html)
* org.apache.commons.beanutils.[DynaBean](http://docs.google.com/org/apache/commons/beanutils/DynaBean.html)
* org.apache.commons.beanutils.[DynaClass](http://docs.google.com/org/apache/commons/beanutils/DynaClass.html)
  + org.apache.commons.beanutils.[MutableDynaClass](http://docs.google.com/org/apache/commons/beanutils/MutableDynaClass.html)
* org.apache.commons.beanutils.[IntrospectionContext](http://docs.google.com/org/apache/commons/beanutils/IntrospectionContext.html)
* org.apache.commons.beanutils.expression.[Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html)

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