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org.apache.commons.beanutils.locale

## Class LocaleBeanUtilsBean

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.beanutils.BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html)
    - org.apache.commons.beanutils.locale.LocaleBeanUtilsBean
* public class LocaleBeanUtilsBean  
  extends [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html)  
  Utility methods for populating JavaBeans properties via reflection in a locale-dependent manner.Since: 1.7 Version: $Id$

### Nested Class SummaryNested Classes

|  |  |
| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + protected class | * + [LocaleBeanUtilsBean.Descriptor](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.Descriptor.html) Deprecated.  Property name expressions are now processed by the configured [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation and this class is no longer used by BeanUtils. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#LocaleBeanUtilsBean--)() Construct instance with standard conversion bean |
| * + [LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#LocaleBeanUtilsBean-org.apache.commons.beanutils.locale.LocaleConvertUtilsBean-)([LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html) localeConvertUtils) Construct instance that uses given locale conversion |
| * + [LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#LocaleBeanUtilsBean-org.apache.commons.beanutils.locale.LocaleConvertUtilsBean-org.apache.commons.beanutils.ConvertUtilsBean-org.apache.commons.beanutils.PropertyUtilsBean-)([LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html) localeConvertUtils, [ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html) convertUtilsBean, [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html) propertyUtilsBean) Construct instance that uses given locale conversion |

### Method SummaryAll Methods Static Methods Instance Methods Concrete Methods Deprecated Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected [LocaleBeanUtilsBean.Descriptor](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.Descriptor.html) | * + [calculate](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#calculate-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Deprecated.  Property name expressions are now processed by the configured [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation and this method is no longer used by BeanUtils. |
| * + protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [convert](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#convert-java.lang.Class-int-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Convert the specified value to the required type. |
| * + protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [convert](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#convert-java.lang.Class-int-java.lang.Object-java.lang.String-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Convert the specified value to the required type using the specified conversion pattern. |
| * + protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [definePropertyType](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#definePropertyType-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) target, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propName) Calculate the property type. |
| * + boolean | * + [getApplyLocalized](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getApplyLocalized--)() Is the pattern to be applied localized (Indicate whether the pattern is localized or not) |
| * + [Locale](https://docs.oracle.com/javase/7/docs/api/java/util/Locale.html?is-external=true) | * + [getDefaultLocale](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getDefaultLocale--)() Gets the default Locale |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified locale-sensitive indexed property of the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-int-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index) Return the value of the specified locale-sensetive indexed property of the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-int-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the specified locale-sensetive indexed property of the specified bean, as a String using the specified conversion pattern. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the specified locale-sensitive indexed property of the specified bean, as a String. |
| * + static [LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html) | * + [getLocaleBeanUtilsInstance](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getLocaleBeanUtilsInstance--)() Gets singleton instance |
| * + [LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html) | * + [getLocaleConvertUtils](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getLocaleConvertUtils--)() Gets the bean instance used for conversions |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified locale-sensitive mapped property of the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key) Return the value of the specified mapped locale-sensitive property of the specified bean, as a String The key is specified as a method parameter and must \*not\* be included in the property name expression |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the specified mapped locale-sensitive property of the specified bean, as a String using the specified conversion pattern. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getMappedPropertyLocale](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getMappedPropertyLocale-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the specified locale-sensitive mapped property of the specified bean, as a String using the specified pattern. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getNestedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getNestedProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the (possibly nested) locale-sensitive property of the specified name, for the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getNestedProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getNestedProperty-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the (possibly nested) locale-sensitive property of the specified name, for the specified bean, as a String using the specified pattern. |
| * + [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/locale/LocaleBeanUtilsBean.html#getProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified locale-sensitive property of the specified bean, no matter which property reference format is used, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + [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/locale/LocaleBeanUtilsBean.html#getProperty-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the specified locale-sensitive property of the specified bean, no matter which property reference format is used, as a String using the specified conversion pattern. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getSimpleProperty-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Return the value of the specified simple locale-sensitive property of the specified bean, converted to a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [getSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#getSimpleProperty-java.lang.Object-java.lang.String-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Return the value of the specified simple locale-sensitive property of the specified bean, converted to a String using the specified conversion pattern. |
| * + protected void | * + [invokeSetter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#invokeSetter-java.lang.Object-java.lang.String-java.lang.String-int-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) target, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propName, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) newValue) Invoke the setter method. |
| * + void | * + [setApplyLocalized](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#setApplyLocalized-boolean-)(boolean newApplyLocalized) Sets whether the pattern is applied localized (Indicate whether the pattern is localized or not) |
| * + void | * + [setDefaultLocale](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#setDefaultLocale-java.util.Locale-)([Locale](https://docs.oracle.com/javase/7/docs/api/java/util/Locale.html?is-external=true) locale) Sets the default Locale. |
| * + static void | * + [setInstance](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#setInstance-org.apache.commons.beanutils.locale.LocaleBeanUtilsBean-)([LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html) newInstance) Sets the instance which provides the functionality for [LocaleBeanUtils](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtils.html). |
| * + void | * + [setProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#setProperty-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Set the specified locale-sensitive property value, performing type conversions as required to conform to the type of the destination property using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). |
| * + void | * + [setProperty](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html#setProperty-java.lang.Object-java.lang.String-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Set the specified locale-sensitive property value, performing type conversions as required to conform to the type of the destination property using the specified conversion pattern. |

### Methods inherited from class org.apache.commons.beanutils.[**BeanUtilsBean**](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html)[cloneBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#cloneBean-java.lang.Object-), [convert](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#convert-java.lang.Object-java.lang.Class-), [copyProperties](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#copyProperties-java.lang.Object-java.lang.Object-), [copyProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#copyProperty-java.lang.Object-java.lang.String-java.lang.Object-), [describe](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#describe-java.lang.Object-), [getArrayProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getArrayProperty-java.lang.Object-java.lang.String-), [getConvertUtils](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getConvertUtils--), [getInstance](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getInstance--), [getPropertyUtils](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getPropertyUtils--), [initCause](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#initCause-java.lang.Throwable-java.lang.Throwable-), [populate](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#populate-java.lang.Object-java.util.Map-), [setInstance](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#setInstance-org.apache.commons.beanutils.BeanUtilsBean-)

### 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

#### LocaleBeanUtilsBean public LocaleBeanUtilsBean() Construct instance with standard conversion bean

#### LocaleBeanUtilsBean public LocaleBeanUtilsBean([LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html) localeConvertUtils, [ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html) convertUtilsBean, [PropertyUtilsBean](http://docs.google.com/org/apache/commons/beanutils/PropertyUtilsBean.html) propertyUtilsBean) Construct instance that uses given locale conversionParameters: localeConvertUtils - use this localeConvertUtils to perform conversions convertUtilsBean - use this for standard conversions propertyUtilsBean - use this for property conversions

#### LocaleBeanUtilsBean public LocaleBeanUtilsBean([LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html) localeConvertUtils) Construct instance that uses given locale conversionParameters: localeConvertUtils - use this localeConvertUtils to perform conversions

### Method Detail

#### getLocaleBeanUtilsInstance public static [LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html) getLocaleBeanUtilsInstance() Gets singleton instanceReturns: the singleton instance

#### setInstance public static void setInstance([LocaleBeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.html) newInstance) Sets the instance which provides the functionality for [LocaleBeanUtils](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtils.html). This is a pseudo-singleton - an single instance is provided per (thread) context classloader. This mechanism provides isolation for web apps deployed in the same container.Parameters: newInstance - a new singleton instance

#### getLocaleConvertUtils public [LocaleConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.html) getLocaleConvertUtils() Gets the bean instance used for conversionsReturns: the locale converter bean instance

#### getDefaultLocale public [Locale](https://docs.oracle.com/javase/7/docs/api/java/util/Locale.html?is-external=true) getDefaultLocale() Gets the default LocaleReturns: the default locale

#### setDefaultLocale public void setDefaultLocale([Locale](https://docs.oracle.com/javase/7/docs/api/java/util/Locale.html?is-external=true) locale) Sets the default Locale.Parameters: locale - the default locale

#### getApplyLocalized public boolean getApplyLocalized() Is the pattern to be applied localized (Indicate whether the pattern is localized or not)Returns: true if pattern is localized, otherwise false

#### setApplyLocalized public void setApplyLocalized(boolean newApplyLocalized) Sets whether the pattern is applied localized (Indicate whether the pattern is localized or not)Parameters: newApplyLocalized - true if pattern is localized, otherwise false

#### getIndexedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensitive indexed property of the specified bean, as a String. The zero-relative index of the required value must be included (in square brackets) as a suffix to the property name, or IllegalArgumentException will be thrown.Parameters: bean - Bean whose property is to be extracted name - propertyname[index] of the property value to be extracted pattern - The conversion pattern Returns: The indexed property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getIndexedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensitive indexed property of the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). The zero-relative index of the required value must be included (in square brackets) as a suffix to the property name, or IllegalArgumentException will be thrown.Overrides: [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - propertyname[index] of the property value to be extracted Returns: The indexed property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getIndexedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensetive indexed property of the specified bean, as a String using the specified conversion pattern. The index is specified as a method parameter and must \*not\* be included in the property name expressionParameters: bean - Bean whose property is to be extracted name - Simple property name of the property value to be extracted index - Index of the property value to be extracted pattern - The conversion pattern Returns: The indexed property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getIndexedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getIndexedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, int index) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensetive indexed property of the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). The index is specified as a method parameter and must \*not\* be included in the property name expressionOverrides: [getIndexedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getIndexedProperty-java.lang.Object-java.lang.String-int-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - Simple property name of the property value to be extracted index - Index of the property value to be extracted Returns: The indexed property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this propety cannot be found

#### getSimpleProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getSimpleProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified simple locale-sensitive property of the specified bean, converted to a String using the specified conversion pattern.Parameters: bean - Bean whose property is to be extracted name - Name of the property to be extracted pattern - The conversion pattern Returns: The property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getSimpleProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getSimpleProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified simple locale-sensitive property of the specified bean, converted to a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html).Overrides: [getSimpleProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getSimpleProperty-java.lang.Object-java.lang.String-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - Name of the property to be extracted Returns: The property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getMappedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified mapped locale-sensitive property of the specified bean, as a String using the specified conversion pattern. The key is specified as a method parameter and must \*not\* be included in the property name expression.Parameters: bean - Bean whose property is to be extracted name - Simple property name of the property value to be extracted key - Lookup key of the property value to be extracted pattern - The conversion pattern Returns: The mapped property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getMappedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified mapped locale-sensitive property of the specified bean, as a String The key is specified as a method parameter and must \*not\* be included in the property name expressionOverrides: [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-java.lang.String-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - Simple property name of the property value to be extracted key - Lookup key of the property value to be extracted Returns: The mapped property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getMappedPropertyLocale public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getMappedPropertyLocale([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensitive mapped property of the specified bean, as a String using the specified pattern. The String-valued key of the required value must be included (in parentheses) as a suffix to the property name, or IllegalArgumentException will be thrown.Parameters: bean - Bean whose property is to be extracted name - propertyname(index) of the property value to be extracted pattern - The conversion pattern Returns: The mapped property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getMappedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getMappedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensitive mapped property of the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html). The String-valued key of the required value must be included (in parentheses) as a suffix to the property name, or IllegalArgumentException will be thrown.Overrides: [getMappedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getMappedProperty-java.lang.Object-java.lang.String-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - propertyname(index) of the property value to be extracted Returns: The mapped property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getNestedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getNestedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the (possibly nested) locale-sensitive property of the specified name, for the specified bean, as a String using the specified pattern.Parameters: bean - Bean whose property is to be extracted name - Possibly nested name of the property to be extracted pattern - The conversion pattern Returns: The nested property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getNestedProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getNestedProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the (possibly nested) locale-sensitive property of the specified name, for the specified bean, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html).Overrides: [getNestedProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getNestedProperty-java.lang.Object-java.lang.String-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - Possibly nested name of the property to be extracted Returns: The nested property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if a nested reference to a property returns null [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensitive property of the specified bean, no matter which property reference format is used, as a String using the specified conversion pattern.Parameters: bean - Bean whose property is to be extracted name - Possibly indexed and/or nested name of the property to be extracted pattern - The conversion pattern Returns: The nested property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### getProperty public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) getProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) Return the value of the specified locale-sensitive property of the specified bean, no matter which property reference format is used, as a String using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html).Overrides: [getProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#getProperty-java.lang.Object-java.lang.String-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean whose property is to be extracted name - Possibly indexed and/or nested name of the property to be extracted Returns: The property's value, converted to a String Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if an accessor method for this property cannot be found

#### setProperty public void setProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) Set the specified locale-sensitive property value, performing type conversions as required to conform to the type of the destination property using the default conversion pattern of the corresponding [LocaleConverter](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleConverter.html).Overrides: [setProperty](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html#setProperty-java.lang.Object-java.lang.String-java.lang.Object-) in class [BeanUtilsBean](http://docs.google.com/org/apache/commons/beanutils/BeanUtilsBean.html) Parameters: bean - Bean on which setting is to be performed name - Property name (can be nested/indexed/mapped/combo) value - Value to be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception

#### setProperty public void setProperty([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) Set the specified locale-sensitive property value, performing type conversions as required to conform to the type of the destination property using the specified conversion pattern.Parameters: bean - Bean on which setting is to be performed name - Property name (can be nested/indexed/mapped/combo) value - Value to be set pattern - The conversion pattern Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception

#### definePropertyType protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> definePropertyType([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) target, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propName) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) Calculate the property type.Parameters: target - The bean name - The property name propName - The Simple name of target property Returns: The property's type Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception

#### convert protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) convert([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) pattern) Convert the specified value to the required type using the specified conversion pattern.Parameters: type - The Java type of target property index - The indexed subscript value (if any) value - The value to be converted pattern - The conversion pattern Returns: The converted value

#### convert protected [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) convert([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Convert the specified value to the required type.Parameters: type - The Java type of target property index - The indexed subscript value (if any) value - The value to be converted Returns: The converted value

#### invokeSetter protected void invokeSetter([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) target, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) propName, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) key, int index, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) newValue) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) Invoke the setter method.Parameters: target - The bean propName - The Simple name of target property key - The Mapped key value (if any) index - The indexed subscript value (if any) newValue - The value to be set Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception

#### calculate [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) protected [LocaleBeanUtilsBean.Descriptor](http://docs.google.com/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.Descriptor.html) calculate([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) bean, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) Deprecated. Property name expressions are now processed by the configured [Resolver](http://docs.google.com/org/apache/commons/beanutils/expression/Resolver.html) implementation and this method is no longer used by BeanUtils. Resolve any nested expression to get the actual target property.Parameters: bean - The bean name - The property name Returns: The property's descriptor Throws: [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the caller does not have access to the property accessor method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - if the property accessor method throws an exception

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