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org.apache.commons.beanutils

## Class ConvertUtilsBean

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.ConvertUtilsBean
* Direct Known Subclasses: [ConvertUtilsBean2](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean2.html)  
    
  public class ConvertUtilsBean  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
* Utility methods for converting String scalar values to objects of the specified Class, String arrays to arrays of the specified Class. The actual [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) instance to be used can be registered for each possible destination Class. Unless you override them, standard [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) instances are provided for all of the following destination Classes:
  + java.lang.BigDecimal (no default value)
  + java.lang.BigInteger (no default value)
  + boolean and java.lang.Boolean (default to false)
  + byte and java.lang.Byte (default to zero)
  + char and java.lang.Character (default to a space)
  + java.lang.Class (no default value)
  + double and java.lang.Double (default to zero)
  + float and java.lang.Float (default to zero)
  + int and java.lang.Integer (default to zero)
  + long and java.lang.Long (default to zero)
  + short and java.lang.Short (default to zero)
  + java.lang.String (default to null)
  + java.io.File (no default value)
  + java.net.URL (no default value)
  + java.sql.Date (no default value)
  + java.sql.Time (no default value)
  + java.sql.Timestamp (no default value)

For backwards compatibility, the standard Converters for primitive types (and the corresponding wrapper classes) return a defined default value when a conversion error occurs. If you prefer to have a [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) thrown instead, replace the standard Converter instances with instances created with the zero-arguments constructor. For example, to cause the Converters for integers to throw an exception on conversion errors, you could do this:  
 // No-args constructor gets the version that throws exceptions  
 Converter myConverter =  
 new org.apache.commons.beanutils.converter.IntegerConverter();  
 ConvertUtils.register(myConverter, Integer.TYPE); // Native type  
 ConvertUtils.register(myConverter, Integer.class); // Wrapper class  
   
Converters generally treat null input as if it were invalid input, ie they return their default value if one was specified when the converter was constructed, and throw an exception otherwise. If you prefer nulls to be preserved for converters that are converting to objects (not primitives) then register a converter as above, passing a default value of null to the converter constructor (and of course registering that converter only for the .class target).  
When a converter is listed above as having no default value, then that converter will throw an exception when passed null or an invalid value as its input. In particular, by default the BigInteger and BigDecimal converters have no default (and are therefore somewhat inconsistent with the other numerical converters which all have zero as their default).  
Converters that generate *arrays* of each of the primitive types are also automatically configured (including String[]). When passed null or invalid input, these return an empty array (not null). See class AbstractArrayConverter for the supported input formats for these converters.Since: 1.7 Version: $Id$

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#ConvertUtilsBean--)() Construct a bean with standard converters registered |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [convert](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#convert-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Convert the specified value into a String. |
| * + [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/ConvertUtilsBean.html#convert-java.lang.Object-java.lang.Class-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> targetType) Convert the value to an object of the specified class (if possible). |
| * + [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/ConvertUtilsBean.html#convert-java.lang.String:A-java.lang.Class-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] values, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Convert an array of specified values to an array of objects of the specified class (if possible). |
| * + [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/ConvertUtilsBean.html#convert-java.lang.String-java.lang.Class-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) value, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Convert the specified value to an object of the specified class (if possible). |
| * + void | * + [deregister](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#deregister--)() Remove all registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html)s, and re-establish the standard Converters. |
| * + void | * + [deregister](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#deregister-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Remove any registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified destination Class. |
| * + boolean | * + [getDefaultBoolean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultBoolean--)() Deprecated.  Register replacement converters for Boolean.TYPE and Boolean.class instead |
| * + byte | * + [getDefaultByte](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultByte--)() Deprecated.  Register replacement converters for Byte.TYPE and Byte.class instead |
| * + char | * + [getDefaultCharacter](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultCharacter--)() Deprecated.  Register replacement converters for Character.TYPE and Character.class instead |
| * + double | * + [getDefaultDouble](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultDouble--)() Deprecated.  Register replacement converters for Double.TYPE and Double.class instead |
| * + float | * + [getDefaultFloat](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultFloat--)() Deprecated.  Register replacement converters for Float.TYPE and Float.class instead |
| * + int | * + [getDefaultInteger](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultInteger--)() Deprecated.  Register replacement converters for Integer.TYPE and Integer.class instead |
| * + long | * + [getDefaultLong](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultLong--)() Deprecated.  Register replacement converters for Long.TYPE and Long.class instead |
| * + short | * + [getDefaultShort](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getDefaultShort--)() Deprecated.  Register replacement converters for Short.TYPE and Short.class instead |
| * + protected static [ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html) | * + [getInstance](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#getInstance--)() Get singleton instance |
| * + [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) | * + [lookup](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#lookup-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Look up and return any registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified destination class; if there is no registered Converter, return null. |
| * + [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) | * + [lookup](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#lookup-java.lang.Class-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> sourceType, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> targetType) Look up and return any registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified source and destination class; if there is no registered Converter, return null. |
| * + void | * + [register](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#register-boolean-boolean-int-)(boolean throwException, boolean defaultNull, int defaultArraySize) Register the provided converters with the specified defaults. |
| * + void | * + [register](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#register-org.apache.commons.beanutils.Converter-java.lang.Class-)([Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) converter, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Register a custom [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified destination Class, replacing any previously registered Converter. |
| * + void | * + [setDefaultBoolean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultBoolean-boolean-)(boolean newDefaultBoolean) Deprecated.  Register replacement converters for Boolean.TYPE and Boolean.class instead |
| * + void | * + [setDefaultByte](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultByte-byte-)(byte newDefaultByte) Deprecated.  Register replacement converters for Byte.TYPE and Byte.class instead |
| * + void | * + [setDefaultCharacter](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultCharacter-char-)(char newDefaultCharacter) Deprecated.  Register replacement converters for Character.TYPE and Character.class instead |
| * + void | * + [setDefaultDouble](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultDouble-double-)(double newDefaultDouble) Deprecated.  Register replacement converters for Double.TYPE and Double.class instead |
| * + void | * + [setDefaultFloat](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultFloat-float-)(float newDefaultFloat) Deprecated.  Register replacement converters for Float.TYPE and Float.class instead |
| * + void | * + [setDefaultInteger](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultInteger-int-)(int newDefaultInteger) Deprecated.  Register replacement converters for Integer.TYPE and Integer.class instead |
| * + void | * + [setDefaultLong](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultLong-long-)(long newDefaultLong) Deprecated.  Register replacement converters for Long.TYPE and Long.class instead |
| * + void | * + [setDefaultShort](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#setDefaultShort-short-)(short newDefaultShort) Deprecated.  Register replacement converters for Short.TYPE and Short.class instead |

### 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

#### ConvertUtilsBean public ConvertUtilsBean() Construct a bean with standard converters registered

### Method Detail

#### getInstance protected static [ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html) getInstance() Get singleton instanceReturns: The singleton instance

#### getDefaultBoolean [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public boolean getDefaultBoolean() Deprecated. Register replacement converters for Boolean.TYPE and Boolean.class instead Gets the default value for Boolean conversions.Returns: The default Boolean value

#### setDefaultBoolean [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultBoolean(boolean newDefaultBoolean) Deprecated. Register replacement converters for Boolean.TYPE and Boolean.class instead Sets the default value for Boolean conversions.Parameters: newDefaultBoolean - The default Boolean value

#### getDefaultByte [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public byte getDefaultByte() Deprecated. Register replacement converters for Byte.TYPE and Byte.class instead Gets the default value for Byte conversions.Returns: The default Byte value

#### setDefaultByte [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultByte(byte newDefaultByte) Deprecated. Register replacement converters for Byte.TYPE and Byte.class instead Sets the default value for Byte conversions.Parameters: newDefaultByte - The default Byte value

#### getDefaultCharacter [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public char getDefaultCharacter() Deprecated. Register replacement converters for Character.TYPE and Character.class instead Gets the default value for Character conversions.Returns: The default Character value

#### setDefaultCharacter [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultCharacter(char newDefaultCharacter) Deprecated. Register replacement converters for Character.TYPE and Character.class instead Sets the default value for Character conversions.Parameters: newDefaultCharacter - The default Character value

#### getDefaultDouble [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public double getDefaultDouble() Deprecated. Register replacement converters for Double.TYPE and Double.class instead Gets the default value for Double conversions.Returns: The default Double value

#### setDefaultDouble [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultDouble(double newDefaultDouble) Deprecated. Register replacement converters for Double.TYPE and Double.class instead Sets the default value for Double conversions.Parameters: newDefaultDouble - The default Double value

#### getDefaultFloat [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public float getDefaultFloat() Deprecated. Register replacement converters for Float.TYPE and Float.class instead Gets the default value for Float conversions.Returns: The default Float value

#### setDefaultFloat [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultFloat(float newDefaultFloat) Deprecated. Register replacement converters for Float.TYPE and Float.class instead Sets the default value for Float conversions.Parameters: newDefaultFloat - The default Float value

#### getDefaultInteger [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public int getDefaultInteger() Deprecated. Register replacement converters for Integer.TYPE and Integer.class instead Gets the default value for Integer conversions.Returns: The default Integer value

#### setDefaultInteger [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultInteger(int newDefaultInteger) Deprecated. Register replacement converters for Integer.TYPE and Integer.class instead Sets the default value for Integer conversions.Parameters: newDefaultInteger - The default Integer value

#### getDefaultLong [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public long getDefaultLong() Deprecated. Register replacement converters for Long.TYPE and Long.class instead Gets the default value for Long conversions.Returns: The default Long value

#### setDefaultLong [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultLong(long newDefaultLong) Deprecated. Register replacement converters for Long.TYPE and Long.class instead Sets the default value for Long conversions.Parameters: newDefaultLong - The default Long value

#### getDefaultShort [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public short getDefaultShort() Deprecated. Register replacement converters for Short.TYPE and Short.class instead Gets the default value for Short conversions.Returns: The default Short value

#### setDefaultShort [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public void setDefaultShort(short newDefaultShort) Deprecated. Register replacement converters for Short.TYPE and Short.class instead Sets the default value for Short conversions.Parameters: newDefaultShort - The default Short value

#### convert public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) convert([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Convert the specified value into a String. If the specified value is an array, the first element (converted to a String) will be returned. The registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the java.lang.String class will be used, which allows applications to customize Object->String conversions (the default implementation simply uses toString()).Parameters: value - Value to be converted (may be null) Returns: The converted String value or null if value is null

#### convert public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) convert([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) value, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Convert the specified value to an object of the specified class (if possible). Otherwise, return a String representation of the value.Parameters: value - Value to be converted (may be null) clazz - Java class to be converted to (must not be null) Returns: The converted value Throws: [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) - if thrown by an underlying Converter

#### convert public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) convert([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] values, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Convert an array of specified values to an array of objects of the specified class (if possible). If the specified Java class is itself an array class, this class will be the type of the returned value. Otherwise, an array will be constructed whose component type is the specified class.Parameters: values - Array of values to be converted clazz - Java array or element class to be converted to (must not be null) Returns: The converted value Throws: [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) - if thrown by an underlying Converter

#### convert public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) convert([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> targetType) Convert the value to an object of the specified class (if possible). If no converter for the desired target type is registered, the passed in object is returned unchanged.Parameters: value - Value to be converted (may be null) targetType - Class of the value to be converted to (must not be null) Returns: The converted value Throws: [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) - if thrown by an underlying Converter

#### deregister public void deregister() Remove all registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html)s, and re-establish the standard Converters.

#### register public void register(boolean throwException, boolean defaultNull, int defaultArraySize) Register the provided converters with the specified defaults.Parameters: throwException - true if the converters should throw an exception when a conversion error occurs, otherwise false if a default value should be used. defaultNull - trueif the *standard* converters (see [registerStandard(boolean, boolean)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#registerStandard-boolean-boolean-)) should use a default value of null, otherwise false. N.B. This values is ignored if throwException is true defaultArraySize - The size of the default array value for array converters (N.B. This values is ignored if throwException is true). Specifying a value less than zero causes a null value to be used for the default.

#### deregister public void deregister([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Remove any registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified destination Class.Parameters: clazz - Class for which to remove a registered Converter

#### lookup public [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) lookup([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Look up and return any registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified destination class; if there is no registered Converter, return null.Parameters: clazz - Class for which to return a registered Converter Returns: The registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) or null if not found

#### lookup public [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) lookup([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> sourceType, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> targetType) Look up and return any registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified source and destination class; if there is no registered Converter, return null.Parameters: sourceType - Class of the value being converted targetType - Class of the value to be converted to Returns: The registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) or null if not found

#### register public void register([Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) converter, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Register a custom [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) for the specified destination Class, replacing any previously registered Converter.Parameters: converter - Converter to be registered clazz - Destination class for conversions performed by this Converter

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