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org.apache.commons.beanutils

## Class ConvertUtils

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.ConvertUtils
* public class ConvertUtils  
  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.  
  For more details, see ConvertUtilsBean which provides the implementations for these methods.Version: $Id$ See Also: [ConvertUtilsBean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html)

### Constructor SummaryConstructors

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

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static [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/ConvertUtils.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. |
| * + static [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/ConvertUtils.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). |
| * + static [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/ConvertUtils.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). |
| * + static [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/ConvertUtils.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). |
| * + static void | * + [deregister](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#deregister--)() Remove all registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html)s, and re-establish the standard Converters. |
| * + static void | * + [deregister](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.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. |
| * + static boolean | * + [getDefaultBoolean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultBoolean--)() Deprecated.  Register replacement converters for Boolean.TYPE and Boolean.class instead |
| * + static byte | * + [getDefaultByte](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultByte--)() Deprecated.  Register replacement converters for Byte.TYPE and Byte.class instead |
| * + static char | * + [getDefaultCharacter](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultCharacter--)() Deprecated.  Register replacement converters for Character.TYPE and Character.class instead |
| * + static double | * + [getDefaultDouble](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultDouble--)() Deprecated.  Register replacement converters for Double.TYPE and Double.class instead |
| * + static float | * + [getDefaultFloat](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultFloat--)() Deprecated.  Register replacement converters for Float.TYPE and Float.class instead |
| * + static int | * + [getDefaultInteger](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultInteger--)() Deprecated.  Register replacement converters for Integer.TYPE and Integer.class instead |
| * + static long | * + [getDefaultLong](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultLong--)() Deprecated.  Register replacement converters for Long.TYPE and Long.class instead |
| * + static short | * + [getDefaultShort](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#getDefaultShort--)() Deprecated.  Register replacement converters for Short.TYPE and Short.class instead |
| * + static [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) | * + [lookup](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.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. |
| * + static [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) | * + [lookup](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.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. |
| * + static <T> [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> | * + [primitiveToWrapper](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#primitiveToWrapper-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> type) Change primitive Class types to the associated wrapper class. |
| * + static void | * + [register](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.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. |
| * + static void | * + [setDefaultBoolean](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultBoolean-boolean-)(boolean newDefaultBoolean) Deprecated.  Register replacement converters for Boolean.TYPE and Boolean.class instead |
| * + static void | * + [setDefaultByte](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultByte-byte-)(byte newDefaultByte) Deprecated.  Register replacement converters for Byte.TYPE and Byte.class instead |
| * + static void | * + [setDefaultCharacter](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultCharacter-char-)(char newDefaultCharacter) Deprecated.  Register replacement converters for Character.TYPE and Character.class instead |
| * + static void | * + [setDefaultDouble](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultDouble-double-)(double newDefaultDouble) Deprecated.  Register replacement converters for Double.TYPE and Double.class instead |
| * + static void | * + [setDefaultFloat](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultFloat-float-)(float newDefaultFloat) Deprecated.  Register replacement converters for Float.TYPE and Float.class instead |
| * + static void | * + [setDefaultInteger](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultInteger-int-)(int newDefaultInteger) Deprecated.  Register replacement converters for Integer.TYPE and Integer.class instead |
| * + static void | * + [setDefaultLong](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.html#setDefaultLong-long-)(long newDefaultLong) Deprecated.  Register replacement converters for Long.TYPE and Long.class instead |
| * + static void | * + [setDefaultShort](http://docs.google.com/org/apache/commons/beanutils/ConvertUtils.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

#### ConvertUtils public ConvertUtils()

### Method Detail

#### getDefaultBoolean [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static 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 static 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 static 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 static 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 static 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 static 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 static 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 static 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 static float getDefaultFloat() Deprecated. Register replacement converters for Float.TYPE and Float.class instead Get 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 static 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 static 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 static 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 static 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 static 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 static 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 static 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 static [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. For more details see ConvertUtilsBean.Parameters: value - Value to be converted (may be null) Returns: The converted String value or null if value is null See Also: [ConvertUtilsBean.convert(Object)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#convert-java.lang.Object-)

#### convert public static [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. For more details see ConvertUtilsBean.Parameters: value - Value to be converted (may be null) clazz - Java class to be converted to (must not be null) Returns: The converted value See Also: [ConvertUtilsBean.convert(String, Class)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#convert-java.lang.String-java.lang.Class-)

#### convert public static [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). For more details see ConvertUtilsBean.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 See Also: [ConvertUtilsBean.convert(String[], Class)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#convert-java.lang.String:A-java.lang.Class-)

#### convert public static [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).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 static void deregister() Remove all registered [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html)s, and re-establish the standard Converters. For more details see ConvertUtilsBean.See Also: [ConvertUtilsBean.deregister()](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#deregister--)

#### deregister public static 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. For more details see ConvertUtilsBean.Parameters: clazz - Class for which to remove a registered Converter See Also: [ConvertUtilsBean.deregister(Class)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#deregister-java.lang.Class-)

#### lookup public static [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. For more details see ConvertUtilsBean.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 See Also: [ConvertUtilsBean.lookup(Class)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#lookup-java.lang.Class-)

#### lookup public static [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 static 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. For more details see ConvertUtilsBean.Parameters: converter - Converter to be registered clazz - Destination class for conversions performed by this Converter See Also: [ConvertUtilsBean.register(Converter, Class)](http://docs.google.com/org/apache/commons/beanutils/ConvertUtilsBean.html#register-org.apache.commons.beanutils.Converter-java.lang.Class-)

#### primitiveToWrapper public static <T> [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> primitiveToWrapper([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> type) Change primitive Class types to the associated wrapper class. This is useful for concrete converter implementations which typically treat primitive types like their corresponding wrapper types.Type Parameters: T - The type to be checked. Parameters: type - The class type to check. Returns: The converted type. Since: 1.9

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