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org.apache.commons.beanutils.converters

## Class BooleanConverter

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.beanutils.converters.AbstractConverter](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html)
    - org.apache.commons.beanutils.converters.BooleanConverter
* All Implemented Interfaces: [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html)  
    
  public final class BooleanConverter  
  extends [AbstractConverter](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html)  
  [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) implementation that handles conversion to and from **Boolean** objects. [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) implementation that handles conversion to and from **java.lang.Boolean** objects.  
  Can be configured to either return a *default value* or throw a ConversionException if a conversion error occurs.  
  By default any object whose string representation is one of the values {"yes", "y", "true", "on", "1"} is converted to Boolean.TRUE, and string representations {"no", "n", "false", "off", "0"} are converted to Boolean.FALSE. The recognized true/false strings can be changed by:  
   String[] trueStrings = {"oui", "o", "1"};  
   String[] falseStrings = {"non", "n", "0"};  
   Converter bc = new BooleanConverter(trueStrings, falseStrings);  
   ConvertUtils.register(bc, Boolean.class);  
   ConvertUtils.register(bc, Boolean.TYPE);  
   In addition, it is recommended that the BooleanArrayConverter also be modified to recognise the same set of values:  
   Converter bac = new BooleanArrayConverter(bc, BooleanArrayConverter.NO\_DEFAULT);  
   ConvertUtils.register(bac, bac.MODEL);  
     
    
  Case is ignored when converting values to true or false.Since: 1.3 Version: $Id$

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [NO\_DEFAULT](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#NO_DEFAULT) Deprecated.  Use constructors without default value. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [BooleanConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#BooleanConverter--)() Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will throw a [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) if a conversion error occurs, ie the string value being converted is not one of the known true strings, nor one of the known false strings. |
| * + [BooleanConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#BooleanConverter-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) defaultValue) Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will return the specified default value if a conversion error occurs, ie the string value being converted is not one of the known true strings, nor one of the known false strings. |
| * + [BooleanConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#BooleanConverter-java.lang.String:A-java.lang.String:A-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] trueStrings, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] falseStrings) Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will throw a [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) if a conversion error occurs, ie the string value being converted is not one of the known true strings, nor one of the known false strings. |
| * + [BooleanConverter](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#BooleanConverter-java.lang.String:A-java.lang.String:A-java.lang.Object-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] trueStrings, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] falseStrings, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) defaultValue) Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will return the specified default value if a conversion error occurs. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected <T> T | * + [convertToType](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#convertToType-java.lang.Class-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> type, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Convert the specified input object into an output object of the specified type. |
| * + protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> | * + [getDefaultType](http://docs.google.com/org/apache/commons/beanutils/converters/BooleanConverter.html#getDefaultType--)() Return the default type this Converter handles. |

### Methods inherited from class org.apache.commons.beanutils.converters.[**AbstractConverter**](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html)[conversionException](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#conversionException-java.lang.Class-java.lang.Object-), [convert](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#convert-java.lang.Class-java.lang.Object-), [convertArray](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#convertArray-java.lang.Object-), [convertToString](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#convertToString-java.lang.Object-), [getDefault](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#getDefault-java.lang.Class-), [handleError](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#handleError-java.lang.Class-java.lang.Object-java.lang.Throwable-), [handleMissing](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#handleMissing-java.lang.Class-), [isUseDefault](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#isUseDefault--), [setDefaultValue](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#setDefaultValue-java.lang.Object-), [toString](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#toString--)

### 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--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Field Detail

#### NO\_DEFAULT [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true) public static final [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) NO\_DEFAULT Deprecated. Use constructors without default value. This is a special reference that can be passed as the "default object" to the constructor to indicate that no default is desired. Note that the value 'null' cannot be used for this purpose, as the caller may want a null to be returned as the default.

### Constructor Detail

#### BooleanConverter public BooleanConverter() Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will throw a [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) if a conversion error occurs, ie the string value being converted is not one of the known true strings, nor one of the known false strings.

#### BooleanConverter public BooleanConverter([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) defaultValue) Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will return the specified default value if a conversion error occurs, ie the string value being converted is not one of the known true strings, nor one of the known false strings.Parameters: defaultValue - The default value to be returned if the value being converted is not recognized. This value may be null, in which case null will be returned on conversion failure. When non-null, it is expected that this value will be either Boolean.TRUE or Boolean.FALSE. The special value BooleanConverter.NO\_DEFAULT can also be passed here, in which case this constructor acts like the no-argument one.

#### BooleanConverter public BooleanConverter([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] trueStrings, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] falseStrings) Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will throw a [ConversionException](http://docs.google.com/org/apache/commons/beanutils/ConversionException.html) if a conversion error occurs, ie the string value being converted is not one of the known true strings, nor one of the known false strings. The provided string arrays are copied, so that changes to the elements of the array after this call is made do not affect this object.Parameters: trueStrings - is the set of strings which should convert to the value Boolean.TRUE. The value null must not be present. Case is ignored. falseStrings - is the set of strings which should convert to the value Boolean.TRUE. The value null must not be present. Case is ignored. Since: 1.8.0

#### BooleanConverter public BooleanConverter([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] trueStrings, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)[] falseStrings, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) defaultValue) Create a [Converter](http://docs.google.com/org/apache/commons/beanutils/Converter.html) that will return the specified default value if a conversion error occurs. The provided string arrays are copied, so that changes to the elements of the array after this call is made do not affect this object.Parameters: trueStrings - is the set of strings which should convert to the value Boolean.TRUE. The value null must not be present. Case is ignored. falseStrings - is the set of strings which should convert to the value Boolean.TRUE. The value null must not be present. Case is ignored. defaultValue - The default value to be returned if the value being converted is not recognized. This value may be null, in which case null will be returned on conversion failure. When non-null, it is expected that this value will be either Boolean.TRUE or Boolean.FALSE. The special value BooleanConverter.NO\_DEFAULT can also be passed here, in which case an exception will be thrown on conversion failure. Since: 1.8.0

### Method Detail

#### getDefaultType protected [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> getDefaultType() Return the default type this Converter handles.Specified by: [getDefaultType](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#getDefaultType--) in class [AbstractConverter](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html) Returns: The default type this Converter handles. Since: 1.8.0

#### convertToType protected <T> T convertToType([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> type, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) throws [Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) Convert the specified input object into an output object of the specified type.Specified by: [convertToType](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html#convertToType-java.lang.Class-java.lang.Object-) in class [AbstractConverter](http://docs.google.com/org/apache/commons/beanutils/converters/AbstractConverter.html) Type Parameters: T - Target type of the conversion. Parameters: type - is the type to which this value should be converted. In the case of this BooleanConverter class, this value is ignored. value - is the input value to be converted. The toString method shall be invoked on this object, and the result compared (ignoring case) against the known "true" and "false" string values. Returns: Boolean.TRUE if the value was a recognized "true" value, Boolean.FALSE if the value was a recognized "false" value, or the default value if the value was not recognized and the constructor was provided with a default value. Throws: [Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) - if an error occurs converting to the specified type Since: 1.8.0

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