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org.apache.commons.collections4.comparators

## Class BooleanComparator

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.comparators.BooleanComparator
* All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)>  
    
  public final class BooleanComparator  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  A [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true) for [Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true) objects that can sort either true or false first.Since: 3.0 See Also: [getTrueFirstComparator()](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#getTrueFirstComparator--), [getFalseFirstComparator()](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#getFalseFirstComparator--), [booleanComparator(boolean)](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#booleanComparator-boolean-), [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.comparators.BooleanComparator)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#BooleanComparator--)() Creates a BooleanComparator that sorts false values before true values. |
| * + [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#BooleanComparator-boolean-)(boolean trueFirst) Creates a BooleanComparator that sorts *trueFirst* values before !*trueFirst* values. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) | * + [booleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#booleanComparator-boolean-)(boolean trueFirst) Returns a BooleanComparator instance that sorts *trueFirst* values before !*trueFirst* values. |
| * + int | * + [compare](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#compare-java.lang.Boolean-java.lang.Boolean-)([Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true) b1, [Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true) b2) Compares two non-null Boolean objects according to the value of [sortsTrueFirst()](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#sortsTrueFirst--). |
| * + boolean | * + [equals](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Returns true iff *that* Object is is a [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true) whose ordering is known to be equivalent to mine. |
| * + static [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) | * + [getFalseFirstComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#getFalseFirstComparator--)() Returns a BooleanComparator instance that sorts false values before true values. |
| * + static [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) | * + [getTrueFirstComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#getTrueFirstComparator--)() Returns a BooleanComparator instance that sorts true values before false values. |
| * + int | * + [hashCode](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#hashCode--)() Implement a hash code for this comparator that is consistent with [equals](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#equals-java.lang.Object-). |
| * + boolean | * + [sortsTrueFirst](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#sortsTrueFirst--)() Returns true iff I sort true values before false values. |

### 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--), [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--), [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-)

### Methods inherited from interface java.util.[**Comparator**](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)[comparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparing-java.util.function.Function-), [comparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparing-java.util.function.Function-java.util.Comparator-), [comparingDouble](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparingDouble-java.util.function.ToDoubleFunction-), [comparingInt](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparingInt-java.util.function.ToIntFunction-), [comparingLong](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparingLong-java.util.function.ToLongFunction-), [naturalOrder](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#naturalOrder--), [nullsFirst](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#nullsFirst-java.util.Comparator-), [nullsLast](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#nullsLast-java.util.Comparator-), [reversed](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#reversed--), [reverseOrder](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#reverseOrder--), [thenComparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparing-java.util.Comparator-), [thenComparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparing-java.util.function.Function-), [thenComparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparing-java.util.function.Function-java.util.Comparator-), [thenComparingDouble](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparingDouble-java.util.function.ToDoubleFunction-), [thenComparingInt](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparingInt-java.util.function.ToIntFunction-), [thenComparingLong](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparingLong-java.util.function.ToLongFunction-)

### Constructor Detail

#### BooleanComparator public BooleanComparator() Creates a BooleanComparator that sorts false values before true values. Equivalent to [BooleanComparator(false)](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#BooleanComparator-boolean-). Please use the static factory instead whenever possible.

#### BooleanComparator public BooleanComparator(boolean trueFirst) Creates a BooleanComparator that sorts *trueFirst* values before !*trueFirst* values. Please use the static factories instead whenever possible.Parameters: trueFirst - when true, sort true boolean values before false

### Method Detail

#### getTrueFirstComparator public static [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) getTrueFirstComparator() Returns a BooleanComparator instance that sorts true values before false values. Clients are encouraged to use the value returned from this method instead of constructing a new instance to reduce allocation and garbage collection overhead when multiple BooleanComparators may be used in the same virtual machine.Returns: the true first singleton BooleanComparator

#### getFalseFirstComparator public static [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) getFalseFirstComparator() Returns a BooleanComparator instance that sorts false values before true values. Clients are encouraged to use the value returned from this method instead of constructing a new instance to reduce allocation and garbage collection overhead when multiple BooleanComparators may be used in the same virtual machine.Returns: the false first singleton BooleanComparator

#### booleanComparator public static [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) booleanComparator(boolean trueFirst) Returns a BooleanComparator instance that sorts *trueFirst* values before !*trueFirst* values. Clients are encouraged to use the value returned from this method instead of constructing a new instance to reduce allocation and garbage collection overhead when multiple BooleanComparators may be used in the same virtual machine.Parameters: trueFirst - when true, sort true Booleans before false Returns: a singleton BooleanComparator instance Since: 4.0

#### compare public int compare([Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true) b1, [Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true) b2) Compares two non-null Boolean objects according to the value of [sortsTrueFirst()](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#sortsTrueFirst--).Specified by: [compare](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#compare-T-T-) in interface [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> Parameters: b1 - the first boolean to compare b2 - the second boolean to compare Returns: negative if obj1 is less, positive if greater, zero if equal Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - when either argument null

#### hashCode public int hashCode() Implement a hash code for this comparator that is consistent with [equals](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#equals-java.lang.Object-).Overrides: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: a hash code for this comparator.

#### equals public boolean equals([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Returns true iff *that* Object is is a [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true) whose ordering is known to be equivalent to mine. This implementation returns true iff *that* is a [BooleanComparator](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html) whose value of [sortsTrueFirst()](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#sortsTrueFirst--) is equal to mine.Specified by: [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#equals-java.lang.Object-) in interface [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> Overrides: [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Parameters: object - the object to compare to Returns: true if equal

#### sortsTrueFirst public boolean sortsTrueFirst() Returns true iff I sort true values before false values. In other words, returns true iff [compare(Boolean.FALSE,Boolean.TRUE)](http://docs.google.com/org/apache/commons/collections4/comparators/BooleanComparator.html#compare-java.lang.Boolean-java.lang.Boolean-) returns a positive value.Returns: the trueFirst flag

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