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org.apache.commons.collections4.functors

## Class IfTransformer<I,O>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.functors.IfTransformer<I,O>
* Type Parameters: I - The input type for the transformer O - The output type for the transformer All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O>  
    
  public class IfTransformer<I,O>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Transformer implementation that will call one of two closures based on whether a predicate evaluates as true or false.Since: 4.1 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.functors.IfTransformer)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [IfTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#IfTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> falseTransformer) Constructor that performs no validation. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> | * + [getFalseTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#getFalseTransformer--)() Gets the transformer used when false. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> | * + [getPredicate](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#getPredicate--)() Gets the predicate. |
| * + [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> | * + [getTrueTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#getTrueTransformer--)() Gets the transformer used when true. |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + [ifTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> falseTransformer) Factory method that performs validation. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + [ifTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> trueTransformer) Factory method that performs validation. |
| * + [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html) | * + [transform](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#transform-I-)([I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html) input) Transforms the input using the true or false transformer based to the result of the predicate. |

### 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

#### IfTransformer public IfTransformer([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> falseTransformer) Constructor that performs no validation. Use the static factory method ifTransformer if you want that.Parameters: predicate - predicate to switch on, not null trueTransformer - transformer used if true, not null falseTransformer - transformer used if false, not null

### Method Detail

#### ifTransformer public static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> ifTransformer([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> falseTransformer) Factory method that performs validation.Type Parameters: I - input type for the transformer O - output type for the transformer Parameters: predicate - predicate to switch on trueTransformer - transformer used if true falseTransformer - transformer used if false Returns: the if transformer Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if either argument is null

#### ifTransformer public static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> ifTransformer([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> trueTransformer) Factory method that performs validation. This factory creates a transformer that just returns the input object when the predicate is false.Type Parameters: T - input and output type for the transformer Parameters: predicate - predicate to switch on trueTransformer - transformer used if true Returns: the if transformer Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if either argument is null

#### transform public [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html) transform([I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html) input) Transforms the input using the true or false transformer based to the result of the predicate.Specified by: [transform](http://docs.google.com/org/apache/commons/collections4/Transformer.html#transform-I-) in interface [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<[I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),[O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> Parameters: input - the input object to transform Returns: the transformed result

#### getPredicate public [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> getPredicate() Gets the predicate.Returns: the predicate

#### getTrueTransformer public [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> getTrueTransformer() Gets the transformer used when true.Returns: the transformer

#### getFalseTransformer public [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> getFalseTransformer() Gets the transformer used when false.Returns: the transformer

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