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org.apache.commons.collections4.functors

## Class SwitchTransformer<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.SwitchTransformer<I,O>
* 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 SwitchTransformer<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 calls the transformer whose predicate returns true, like a switch statement.Since: 3.0 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.functors.SwitchTransformer)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [SwitchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#SwitchTransformer-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Transformer:A-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/SwitchTransformer.html)>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)> defaultTransformer) 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/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)> | * + [getDefaultTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#getDefaultTransformer--)() Gets the default transformer. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] | * + [getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#getPredicates--)() Gets the predicates. |
| * + [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] | * + [getTransformers](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#getTransformers--)() Gets the transformers. |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + [switchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#switchTransformer-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>,? extends [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>> map) Create a new Transformer that calls one of the transformers depending on the predicates. |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + [switchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#switchTransformer-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Transformer:A-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> defaultTransformer) Factory method that performs validation and copies the parameter arrays. |
| * + [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html) | * + [transform](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#transform-I-)([I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html) input) Transforms the input to result by calling the transformer whose matching predicate returns true. |

### 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

#### SwitchTransformer public SwitchTransformer([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)> defaultTransformer) Constructor that performs no validation. Use switchTransformer if you want that.Parameters: predicates - array of predicates, cloned, no nulls transformers - matching array of transformers, cloned, no nulls defaultTransformer - the transformer to use if no match, null means return null

### Method Detail

#### switchTransformer public static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> switchTransformer([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> defaultTransformer) Factory method that performs validation and copies the parameter arrays.Type Parameters: I - the input type O - the output type Parameters: predicates - array of predicates, cloned, no nulls transformers - matching array of transformers, cloned, no nulls defaultTransformer - the transformer to use if no match, null means return null Returns: the chained transformer Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any element in the array is null

#### switchTransformer public static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> switchTransformer([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>,? extends [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>> map) Create a new Transformer that calls one of the transformers depending on the predicates. The Map consists of Predicate keys and Transformer values. A transformer is called if its matching predicate returns true. Each predicate is evaluated until one returns true. If no predicates evaluate to true, the default transformer is called. The default transformer is set in the map with a null key. The ordering is that of the iterator() method on the entryset collection of the map.Type Parameters: I - the input type O - the output type Parameters: map - a map of predicates to transformers Returns: the switch transformer Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the map is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any transformer in the map is null [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the map elements are of the wrong type

#### transform public [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html) transform([I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html) input) Transforms the input to result by calling the transformer whose matching predicate returns true.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/SwitchTransformer.html),[O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)> Parameters: input - the input object to transform Returns: the transformed result

#### getPredicates public [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] getPredicates() Gets the predicates.Returns: a copy of the predicates Since: 3.1

#### getTransformers public [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] getTransformers() Gets the transformers.Returns: a copy of the transformers Since: 3.1

#### getDefaultTransformer public [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)> getDefaultTransformer() Gets the default transformer.Returns: the default transformer Since: 3.1

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