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org.apache.commons.collections4

## Interface Transformer<I,O>

* Type Parameters: I - the input type to the transformer O - the output type from the transformer All Known Implementing Classes: [ChainedTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html), [CloneTransformer](http://docs.google.com/org/apache/commons/collections4/functors/CloneTransformer.html), [ClosureTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ClosureTransformer.html), [ConstantTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ConstantTransformer.html), [ExceptionTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionTransformer.html), [FactoryTransformer](http://docs.google.com/org/apache/commons/collections4/functors/FactoryTransformer.html), [IfTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html), [InstantiateTransformer](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateTransformer.html), [InvokerTransformer](http://docs.google.com/org/apache/commons/collections4/functors/InvokerTransformer.html), [MapTransformer](http://docs.google.com/org/apache/commons/collections4/functors/MapTransformer.html), [NOPTransformer](http://docs.google.com/org/apache/commons/collections4/functors/NOPTransformer.html), [PredicateTransformer](http://docs.google.com/org/apache/commons/collections4/functors/PredicateTransformer.html), [StringValueTransformer](http://docs.google.com/org/apache/commons/collections4/functors/StringValueTransformer.html), [SwitchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html) Functional Interface: This is a functional interface and can therefore be used as the assignment target for a lambda expression or method reference.  
    
  [@FunctionalInterface](https://docs.oracle.com/javase/7/docs/api/java/lang/FunctionalInterface.html?is-external=true)  
  public interface Transformer<I,O>  
  Defines a functor interface implemented by classes that transform one object into another.  
  A Transformer converts the input object to the output object. The input object should be left unchanged. Transformers are typically used for type conversions, or extracting data from an object.  
  Standard implementations of common transformers are provided by [TransformerUtils](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html). These include method invocation, returning a constant, cloning and returning the string value.Since: 1.0

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [O](http://docs.google.com/org/apache/commons/collections4/Transformer.html) | * + [transform](http://docs.google.com/org/apache/commons/collections4/Transformer.html#transform-I-)([I](http://docs.google.com/org/apache/commons/collections4/Transformer.html) input) Transforms the input object (leaving it unchanged) into some output object. |

### Method Detail

#### transform [O](http://docs.google.com/org/apache/commons/collections4/Transformer.html) transform([I](http://docs.google.com/org/apache/commons/collections4/Transformer.html) input) Transforms the input object (leaving it unchanged) into some output object.Parameters: input - the object to be transformed, should be left unchanged Returns: a transformed object Throws: [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - (runtime) if the input is the wrong class [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - (runtime) if the input is invalid [FunctorException](http://docs.google.com/org/apache/commons/collections4/FunctorException.html) - (runtime) if the transform cannot be completed

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