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org.apache.commons.collections4.functors

## Class ChainedTransformer<T>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.functors.ChainedTransformer<T>
* 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)<T,T>  
    
  public class ChainedTransformer<T>  
  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)<T,T>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Transformer implementation that chains the specified transformers together.  
  The input object is passed to the first transformer. The transformed result is passed to the second transformer and so on.Since: 3.0 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.functors.ChainedTransformer)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ChainedTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html#ChainedTransformer-org.apache.commons.collections4.Transformer...-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html),? extends [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html)>... transformers) Constructor that performs no validation. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + [chainedTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html#chainedTransformer-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T>> transformers) Create a new Transformer that calls each transformer in turn, passing the result into the next transformer. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + [chainedTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html#chainedTransformer-org.apache.commons.collections4.Transformer...-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T>... transformers) Factory method that performs validation and copies the parameter array. |
| * + [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html),? extends [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html)>[] | * + [getTransformers](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html#getTransformers--)() Gets the transformers. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html) | * + [transform](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html#transform-T-)([T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html) object) Transforms the input to result via each decorated transformer |

### 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

#### ChainedTransformer public ChainedTransformer([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html),? extends [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html)>... transformers) Constructor that performs no validation. Use chainedTransformer if you want that.Parameters: transformers - the transformers to chain, copied, no nulls

### Method Detail

#### chainedTransformer public static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> chainedTransformer([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T>... transformers) Factory method that performs validation and copies the parameter array.Type Parameters: T - the object type Parameters: transformers - the transformers to chain, copied, no nulls Returns: the chained transformer Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the transformers array is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any transformer in the array is null

#### chainedTransformer public static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> chainedTransformer([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T>> transformers) Create a new Transformer that calls each transformer in turn, passing the result into the next transformer. The ordering is that of the iterator() method on the collection.Type Parameters: T - the object type Parameters: transformers - a collection of transformers to chain Returns: the chained transformer Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the transformers collection is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any transformer in the collection is null

#### transform public [T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html) transform([T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html) object) Transforms the input to result via each decorated transformerSpecified 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)<[T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html),[T](http://docs.google.com/org/apache/commons/collections4/functors/ChainedTransformer.html)> Parameters: object - the input object passed to the first transformer Returns: the transformed result

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

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