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org.apache.commons.collections4.map

## Class TransformedMap<K,V>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.map.AbstractIterableMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractIterableMap.html)<K,V>
    - [org.apache.commons.collections4.map.AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<K,V>
      * org.apache.commons.collections4.map.TransformedMap<K,V>
* Type Parameters: K - the type of the keys in this map V - the type of the values in this map All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>, [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,V>, [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,V>, [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>, [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V> Direct Known Subclasses: [TransformedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedSortedMap.html)  
    
  public class TransformedMap<K,V>  
  extends [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<K,V>  
  implements [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Decorates another Map to transform objects that are added.  
  The Map put methods and Map.Entry setValue method are affected by this class. Thus objects must be removed or searched for using their transformed form. For example, if the transformation converts Strings to Integers, you must use the Integer form to remove objects.  
  **Note that TransformedMap is not synchronized and is not thread-safe.** If you wish to use this map from multiple threads concurrently, you must use appropriate synchronization. The simplest approach is to wrap this map using [Collections.synchronizedMap(Map)](https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html?is-external=true#synchronizedMap-java.util.Map-). This class may throw exceptions when accessed by concurrent threads without synchronization.  
  This class is Serializable from Commons Collections 3.1.Since: 3.0 See Also: [TransformedSplitMap](http://docs.google.com/org/apache/commons/collections4/splitmap/TransformedSplitMap.html), [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.map.TransformedMap)

### Nested Class Summary

### Nested classes/interfaces inherited from interface java.util.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true),[V](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)>

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + protected [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> | * + [keyTransformer](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#keyTransformer) The transformer to use for the key |
| * + protected [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> | * + [valueTransformer](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#valueTransformer) The transformer to use for the value |

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#TransformedMap-java.util.Map-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> valueTransformer) Constructor that wraps (not copies). |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) | * + [checkSetValue](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#checkSetValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) value) Override to transform the value when using setValue. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<K,V>> | * + [entrySet](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#entrySet--)() |
| * + protected boolean | * + [isSetValueChecking](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#isSetValueChecking--)() Override to only return true when there is a value transformer. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) | * + [put](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#put-K-V-)([K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) value) Note that the return type is Object, rather than V as in the Map interface. |
| * + void | * + [putAll](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#putAll-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> mapToCopy) |
| * + static <K,V> [TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)<K,V> | * + [transformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformedMap-java.util.Map-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super K,? extends K> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super V,? extends V> valueTransformer) Factory method to create a transforming map that will transform existing contents of the specified map. |
| * + static <K,V> [TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)<K,V> | * + [transformingMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformingMap-java.util.Map-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super K,? extends K> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super V,? extends V> valueTransformer) Factory method to create a transforming map. |
| * + protected [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) | * + [transformKey](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) object) Transforms a key. |
| * + protected [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> | * + [transformMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformMap-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> map) Transforms a map. |
| * + protected [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) | * + [transformValue](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) object) Transforms a value. |

### Methods inherited from class org.apache.commons.collections4.map.[**AbstractMapDecorator**](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)[clear](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#clear--), [containsKey](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#containsKey-java.lang.Object-), [containsValue](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#containsValue-java.lang.Object-), [decorated](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#decorated--), [equals](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#equals-java.lang.Object-), [get](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#get-java.lang.Object-), [hashCode](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#hashCode--), [isEmpty](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#isEmpty--), [keySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#keySet--), [remove](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#remove-java.lang.Object-), [size](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#size--), [toString](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#toString--), [values](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#values--)

### Methods inherited from class org.apache.commons.collections4.map.[**AbstractIterableMap**](http://docs.google.com/org/apache/commons/collections4/map/AbstractIterableMap.html)[mapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractIterableMap.html#mapIterator--)

### 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--), [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.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[compute](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#compute-K-java.util.function.BiFunction-), [computeIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfAbsent-K-java.util.function.Function-), [computeIfPresent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfPresent-K-java.util.function.BiFunction-), [forEach](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#forEach-java.util.function.BiConsumer-), [getOrDefault](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#getOrDefault-java.lang.Object-V-), [merge](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#merge-K-V-java.util.function.BiFunction-), [putIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putIfAbsent-K-V-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-java.lang.Object-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-V-), [replaceAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replaceAll-java.util.function.BiFunction-)

### Field Detail

#### keyTransformer protected final [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> keyTransformer The transformer to use for the key

#### valueTransformer protected final [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> valueTransformer The transformer to use for the value

### Constructor Detail

#### TransformedMap protected TransformedMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> valueTransformer) Constructor that wraps (not copies). If there are any elements already in the collection being decorated, they are NOT transformed.Parameters: map - the map to decorate, must not be null keyTransformer - the transformer to use for key conversion, null means no conversion valueTransformer - the transformer to use for value conversion, null means no conversion Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null

### Method Detail

#### transformingMap public static <K,V> [TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)<K,V> transformingMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super K,? extends K> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super V,? extends V> valueTransformer) Factory method to create a transforming map. If there are any elements already in the map being decorated, they are NOT transformed. Contrast this with [transformedMap(Map, Transformer, Transformer)](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformedMap-java.util.Map-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-).Type Parameters: K - the key type V - the value type Parameters: map - the map to decorate, must not be null keyTransformer - the transformer to use for key conversion, null means no transformation valueTransformer - the transformer to use for value conversion, null means no transformation Returns: a new transformed map Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null Since: 4.0

#### transformedMap public static <K,V> [TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)<K,V> transformedMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super K,? extends K> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super V,? extends V> valueTransformer) Factory method to create a transforming map that will transform existing contents of the specified map. If there are any elements already in the map being decorated, they will be transformed by this method. Contrast this with [transformingMap(Map, Transformer, Transformer)](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html#transformingMap-java.util.Map-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-).Type Parameters: K - the key type V - the value type Parameters: map - the map to decorate, must not be null keyTransformer - the transformer to use for key conversion, null means no transformation valueTransformer - the transformer to use for value conversion, null means no transformation Returns: a new transformed map Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null Since: 4.0

#### transformKey protected [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) transformKey([K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) object) Transforms a key. The transformer itself may throw an exception if necessary.Parameters: object - the object to transform Returns: the transformed object

#### transformValue protected [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) transformValue([V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) object) Transforms a value. The transformer itself may throw an exception if necessary.Parameters: object - the object to transform Returns: the transformed object

#### transformMap protected [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> transformMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> map) Transforms a map. The transformer itself may throw an exception if necessary.Parameters: map - the map to transform Returns: the transformed object

#### checkSetValue protected [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) checkSetValue([V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) value) Override to transform the value when using setValue.Parameters: value - the value to transform Returns: the transformed value Since: 3.1

#### isSetValueChecking protected boolean isSetValueChecking() Override to only return true when there is a value transformer.Returns: true if a value transformer is in use Since: 3.1

#### put public [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) put([K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html) value) Description copied from interface: [Put](http://docs.google.com/org/apache/commons/collections4/Put.html#put-K-V-) Note that the return type is Object, rather than V as in the Map interface. See the class Javadoc for further info.Specified by: [put](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> Specified by: [put](http://docs.google.com/org/apache/commons/collections4/Put.html#put-K-V-) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> Overrides: [put](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#put-K-V-) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> Parameters: key - key with which the specified value is to be associated value - value to be associated with the specified key Returns: the previous value associated with key, or null if there was no mapping for key. (A null return can also indicate that the map previously associated null with key, if the implementation supports null values.) See Also: [Map.put(Object, Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-)

#### putAll public void putAll([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> mapToCopy)Specified by: [putAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> Specified by: [putAll](http://docs.google.com/org/apache/commons/collections4/Put.html#putAll-java.util.Map-) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> Overrides: [putAll](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#putAll-java.util.Map-) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)> Parameters: mapToCopy - mappings to be stored in this map See Also: [Map.putAll(Map)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-)

#### entrySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<K,V>> entrySet()Specified by: [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> Specified by: [entrySet](http://docs.google.com/org/apache/commons/collections4/Get.html#entrySet--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,V> Overrides: [entrySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#entrySet--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<K,V> Returns: a set view of the mappings contained in this map See Also: [Map.entrySet()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--)

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