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org.apache.commons.collections4.multimap

## Class TransformedMultiValuedMap<K,V>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.multimap.AbstractMultiValuedMapDecorator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)<K,V>
    - org.apache.commons.collections4.multimap.TransformedMultiValuedMap<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), [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<K,V>  
    
  public class TransformedMultiValuedMap<K,V>  
  extends [AbstractMultiValuedMapDecorator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)<K,V>  
  Decorates another MultiValuedMap to transform objects that are added.  
  This class affects the MultiValuedMap put methods. 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 TransformedMultiValuedMap is not synchronized and is not thread-safe.**Since: 4.1 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.multimap.TransformedMultiValuedMap)

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [TransformedMultiValuedMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#TransformedMultiValuedMap-org.apache.commons.collections4.MultiValuedMap-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),? extends [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> valueTransformer) Constructor that wraps (not copies). |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [put](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#put-K-V-)([K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) value) Adds a key-value mapping to this multi-valued map. |
| * + boolean | * + [putAll](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#putAll-K-java.lang.Iterable-)([K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) key, [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> values) Adds a mapping to the specified key for all values contained in the given Iterable. |
| * + boolean | * + [putAll](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.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/multimap/TransformedMultiValuedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> map) Copies all mappings from the specified map to this multi-valued map (optional operation). |
| * + boolean | * + [putAll](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#putAll-org.apache.commons.collections4.MultiValuedMap-)([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<? extends [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> map) Copies all mappings from the specified map to this multi-valued map (optional operation). |
| * + static <K,V> [TransformedMultiValuedMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)<K,V> | * + [transformedMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#transformedMap-org.apache.commons.collections4.MultiValuedMap-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<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 MultiValuedMap that will transform existing contents of the specified map. |
| * + static <K,V> [TransformedMultiValuedMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)<K,V> | * + [transformingMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#transformingMap-org.apache.commons.collections4.MultiValuedMap-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<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 MultiValuedMap. |
| * + protected [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) | * + [transformKey](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#transformKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) object) Transforms a key. |
| * + protected [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) | * + [transformValue](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#transformValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) object) Transforms a value. |

### Methods inherited from class org.apache.commons.collections4.multimap.[**AbstractMultiValuedMapDecorator**](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)[asMap](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#asMap--), [clear](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#clear--), [containsKey](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#containsKey-java.lang.Object-), [containsMapping](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#containsMapping-java.lang.Object-java.lang.Object-), [containsValue](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#containsValue-java.lang.Object-), [decorated](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#decorated--), [entries](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#entries--), [equals](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#equals-java.lang.Object-), [get](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#get-K-), [hashCode](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#hashCode--), [isEmpty](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#isEmpty--), [keys](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#keys--), [keySet](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#keySet--), [mapIterator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#mapIterator--), [remove](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#remove-java.lang.Object-), [removeMapping](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#removeMapping-java.lang.Object-java.lang.Object-), [size](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#size--), [toString](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#toString--), [values](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#values--)

### 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-)

### Constructor Detail

#### TransformedMultiValuedMap protected TransformedMultiValuedMap([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> map, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),? extends [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> keyTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.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 MultiValuedMap to decorate, may 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> [TransformedMultiValuedMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)<K,V> transformingMap([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<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 MultiValuedMap. If there are any elements already in the map being decorated, they are NOT transformed. Contrast this with [transformedMap(MultiValuedMap, Transformer, Transformer)](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#transformedMap-org.apache.commons.collections4.MultiValuedMap-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-).Type Parameters: K - the key type V - the value type Parameters: map - the MultiValuedMap to decorate, may 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 Returns: a new transformed MultiValuedMap Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null

#### transformedMap public static <K,V> [TransformedMultiValuedMap](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)<K,V> transformedMap([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<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 MultiValuedMap 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(MultiValuedMap, Transformer, Transformer)](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html#transformingMap-org.apache.commons.collections4.MultiValuedMap-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-).Type Parameters: K - the key type V - the value type Parameters: map - the MultiValuedMap to decorate, may 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 Returns: a new transformed MultiValuedMap Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null

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

#### put public boolean put([K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) value) Description copied from interface: [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#put-K-V-) Adds a key-value mapping to this multi-valued map. Unlike a normal Map the previous value is not replaced. Instead the new value is added to the collection stored against the key. Depending on the collection type used, duplicate key-value mappings may be allowed. The method will return true if the size of the multi-valued map has been increased because of this operation.Specified by: [put](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#put-K-V-) in interface [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Overrides: [put](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#put-K-V-) in class [AbstractMultiValuedMapDecorator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Parameters: key - the key to store against value - the value to add to the collection at the key Returns: true if the map changed as a result of this put operation, or false if the map already contained the key-value mapping and the collection type does not allow duplicate values, e.g. when using a Set

#### putAll public boolean putAll([K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html) key, [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> values) Description copied from interface: [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#putAll-K-java.lang.Iterable-) Adds a mapping to the specified key for all values contained in the given Iterable.Specified by: [putAll](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#putAll-K-java.lang.Iterable-) in interface [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Overrides: [putAll](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#putAll-K-java.lang.Iterable-) in class [AbstractMultiValuedMapDecorator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Parameters: key - the key to store against values - the values to add to the collection at the key, may not be null Returns: true if the map changed as a result of this operation

#### putAll public boolean 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/multimap/TransformedMultiValuedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> map) Description copied from interface: [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#putAll-java.util.Map-) Copies all mappings from the specified map to this multi-valued map (optional operation). The effect of this call is equivalent to that of calling [put(k, v)](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#put-K-V-) on this map once for each mapping from key k to value v in the specified map. The behavior of this operation is undefined if the specified map is modified while the operation is in progress.Specified by: [putAll](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#putAll-java.util.Map-) in interface [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Overrides: [putAll](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#putAll-java.util.Map-) in class [AbstractMultiValuedMapDecorator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Parameters: map - mappings to be stored in this map, may not be null Returns: true if the map changed as a result of this operation

#### putAll public boolean putAll([MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<? extends [K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> map) Description copied from interface: [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#putAll-org.apache.commons.collections4.MultiValuedMap-) Copies all mappings from the specified map to this multi-valued map (optional operation). The effect of this call is equivalent to that of calling [put(k, v)](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#put-K-V-) on this map once for each mapping from key k to value v in the specified map. The behavior of this operation is undefined if the specified map is modified while the operation is in progress.Specified by: [putAll](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html#putAll-org.apache.commons.collections4.MultiValuedMap-) in interface [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Overrides: [putAll](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html#putAll-org.apache.commons.collections4.MultiValuedMap-) in class [AbstractMultiValuedMapDecorator](http://docs.google.com/org/apache/commons/collections4/multimap/AbstractMultiValuedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)> Parameters: map - mappings to be stored in this map, may not be null Returns: true if the map changed as a result of this operation

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* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/TransformedMultiValuedMap.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/collections4/multimap/HashSetValuedHashMap.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/multimap/UnmodifiableMultiValuedMap.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/multimap/TransformedMultiValuedMap.html)
* [No Frames](http://docs.google.com/TransformedMultiValuedMap.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#1t3h5sf) |
* [Method](#2s8eyo1)

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