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org.apache.commons.collections4.map

## Class MultiValueMap<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,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>
      * org.apache.commons.collections4.map.MultiValueMap<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,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>, [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>, [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>, [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>, [MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<K,V>, [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>  
  Deprecated.   
  since 4.1, use [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html) instead  
    
  [@Deprecated](https://docs.oracle.com/javase/7/docs/api/java/lang/Deprecated.html?is-external=true)  
  public class MultiValueMap<K,V>  
  extends [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<K,[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>  
  implements [MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<K,V>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  A MultiValueMap decorates another map, allowing it to have more than one value for a key.  
  A MultiMap is a Map with slightly different semantics. Putting a value into the map will add the value to a Collection at that key. Getting a value will return a Collection, holding all the values put to that key.  
  This implementation is a decorator, allowing any Map implementation to be used as the base.  
  In addition, this implementation allows the type of collection used for the values to be controlled. By default, an ArrayList is used, however a Class to instantiate may be specified, or a factory that returns a Collection instance.  
  **Note that MultiValueMap is not synchronized and is not thread-safe.** If you wish to use this map from multiple threads concurrently, you must use appropriate synchronization. This class may throw exceptions when accessed by concurrent threads without synchronization.Since: 3.2 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.map.MultiValueMap)

### 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)>

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
|  | * + [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#MultiValueMap--)() Deprecated.  Creates a MultiValueMap based on a HashMap and storing the multiple values in an ArrayList. |
| * + protected | * + [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#MultiValueMap-java.util.Map-org.apache.commons.collections4.Factory-)([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/MultiValueMap.html),? super C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  Creates a MultiValueMap which decorates the given map and creates the value collections using the supplied collectionFactory. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [clear](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#clear--)() Deprecated.  Clear the map. |
| * + boolean | * + [containsValue](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#containsValue-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Checks whether the map contains the value specified. |
| * + boolean | * + [containsValue](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#containsValue-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Checks whether the collection at the specified key contains the value. |
| * + protected [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> | * + [createCollection](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#createCollection-int-)(int size) Deprecated.  Creates a new instance of the map value Collection container using the factory. |
| * + [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](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>> | * + [entrySet](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#entrySet--)() Deprecated. |
| * + [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> | * + [getCollection](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#getCollection-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Deprecated.  Gets the collection mapped to the specified key. |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)>> | * + [iterator](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#iterator--)() Deprecated.  Gets an iterator for all mappings stored in this [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html). |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> | * + [iterator](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#iterator-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Deprecated.  Gets an iterator for the collection mapped to the specified key. |
| * + static <K,V,C extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> | * + [multiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#multiValueMap-java.util.Map-java.lang.Class-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super C> map, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<C> collectionClass) Deprecated.  Creates a map which decorates the given map and maps keys to collections of type collectionClass. |
| * + static <K,V,C extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> | * + [multiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#multiValueMap-java.util.Map-org.apache.commons.collections4.Factory-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  Creates a map which decorates the given map and creates the value collections using the supplied collectionFactory. |
| * + static <K,V> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> | * + [multiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#multiValueMap-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> map) Deprecated.  Creates a map which wraps the given map and maps keys to ArrayLists. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [put](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#put-K-java.lang.Object-)([K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Adds the value to the collection associated with the specified key. |
| * + boolean | * + [putAll](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#putAll-K-java.util.Collection-)([K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html) key, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> values) Deprecated.  Adds a collection of values to the collection associated with the specified key. |
| * + void | * + [putAll](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.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/MultiValueMap.html),?> map) Deprecated.  Override superclass to ensure that MultiMap instances are correctly handled. |
| * + boolean | * + [removeMapping](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#removeMapping-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Removes a specific value from map. |
| * + int | * + [size](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#size-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Deprecated.  Gets the size of the collection mapped to the specified key. |
| * + int | * + [totalSize](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#totalSize--)() Deprecated.  Gets the total size of the map by counting all the values. |
| * + [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + [values](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#values--)() Deprecated.  Gets a collection containing all the values in the map. |

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

### 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 org.apache.commons.collections4.[**MultiMap**](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)[get](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#get-java.lang.Object-), [remove](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#remove-java.lang.Object-), [size](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#size--)

### 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-), [containsKey](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsKey-java.lang.Object-), [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#equals-java.lang.Object-), [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-), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#hashCode--), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#isEmpty--), [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--), [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-)

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

### Methods inherited from interface org.apache.commons.collections4.[**Get**](http://docs.google.com/org/apache/commons/collections4/Get.html)[containsKey](http://docs.google.com/org/apache/commons/collections4/Get.html#containsKey-java.lang.Object-), [isEmpty](http://docs.google.com/org/apache/commons/collections4/Get.html#isEmpty--), [keySet](http://docs.google.com/org/apache/commons/collections4/Get.html#keySet--)

### Constructor Detail

#### MultiValueMap public MultiValueMap() Deprecated.  Creates a MultiValueMap based on a HashMap and storing the multiple values in an ArrayList.

#### MultiValueMap protected MultiValueMap([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/MultiValueMap.html),? super C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  Creates a MultiValueMap which decorates the given map and creates the value collections using the supplied collectionFactory.Type Parameters: C - the collection class type Parameters: map - the map to decorate collectionFactory - the collection factory which must return a Collection instance

### Method Detail

#### multiValueMap public static <K,V> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> multiValueMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> map) Deprecated.  Creates a map which wraps the given map and maps keys to ArrayLists.Type Parameters: K - the key type V - the value type Parameters: map - the map to wrap Returns: a new multi-value map Since: 4.0

#### multiValueMap public static <K,V,C extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> multiValueMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super C> map, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<C> collectionClass) Deprecated.  Creates a map which decorates the given map and maps keys to collections of type collectionClass.Type Parameters: K - the key type V - the value type C - the collection class type Parameters: map - the map to wrap collectionClass - the type of the collection class Returns: a new multi-value map Since: 4.0

#### multiValueMap public static <K,V,C extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> multiValueMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  Creates a map which decorates the given map and creates the value collections using the supplied collectionFactory.Type Parameters: K - the key type V - the value type C - the collection class type Parameters: map - the map to decorate collectionFactory - the collection factory (must return a Collection object). Returns: a new multi-value map Since: 4.0

#### clear public void clear() Deprecated.  Clear the map.Specified by: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--) 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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [clear](http://docs.google.com/org/apache/commons/collections4/Put.html#clear--) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Overrides: [clear](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#clear--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> See Also: [Map.clear()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--)

#### removeMapping public boolean removeMapping([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Removes a specific value from map. The item is removed from the collection mapped to the specified key. Other values attached to that key are unaffected. If the last value for a key is removed, null will be returned from a subsequent get(key).Specified by: [removeMapping](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#removeMapping-K-V-) in interface [MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> Parameters: key - the key to remove from value - the value to remove Returns: true if the mapping was removed, false otherwise

#### containsValue public boolean containsValue([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Checks whether the map contains the value specified. This checks all collections against all keys for the value, and thus could be slow.Specified by: [containsValue](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-) 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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [containsValue](http://docs.google.com/org/apache/commons/collections4/Get.html#containsValue-java.lang.Object-) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [containsValue](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#containsValue-java.lang.Object-) in interface [MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> Overrides: [containsValue](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#containsValue-java.lang.Object-) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: value - the value to search for Returns: true if the map contains the value See Also: [Map.containsValue(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-)

#### put public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) put([K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Adds the value to the collection associated with the specified key. Unlike a normal Map the previous value is not replaced. Instead the new value is added to the collection stored against the key.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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [put](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#put-K-java.lang.Object-) in interface [MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> 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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: key - the key to store against value - the value to add to the collection at the key Returns: the value added if the map changed and null if the map did not change 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/MultiValueMap.html),?> map) Deprecated.  Override superclass to ensure that MultiMap instances are correctly handled. If you call this method with a normal map, each entry is added using put(Object,Object). If you call this method with a multi map, each entry is added using putAll(Object,Collection).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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> 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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> 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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Parameters: map - the map to copy (either a normal or multi 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](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)>> entrySet() Deprecated.  NOTE: the returned Entry objects will contain as value a [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) of all values that are mapped to the given key. To get a "flattened" version of all mappings contained in this map, use [iterator()](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#iterator--).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](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> 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](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> 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](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: a set view of the mappings contained in this map See Also: [iterator()](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#iterator--)

#### values public [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> values() Deprecated.  Gets a collection containing all the values in the map. This returns a collection containing the combination of values from all keys.Specified by: [values](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--) 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/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [values](http://docs.google.com/org/apache/commons/collections4/Get.html#values--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Specified by: [values](http://docs.google.com/org/apache/commons/collections4/MultiMap.html#values--) in interface [MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> Overrides: [values](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#values--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> Returns: a collection view of the values contained in this map See Also: [Map.values()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--)

#### containsValue public boolean containsValue([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Deprecated.  Checks whether the collection at the specified key contains the value.Parameters: key - the key to search for value - the value to search for Returns: true if the map contains the value

#### getCollection public [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> getCollection([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Deprecated.  Gets the collection mapped to the specified key. This method is a convenience method to typecast the result of get(key).Parameters: key - the key to retrieve Returns: the collection mapped to the key, null if no mapping

#### size public int size([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Deprecated.  Gets the size of the collection mapped to the specified key.Parameters: key - the key to get size for Returns: the size of the collection at the key, zero if key not in map

#### putAll public boolean putAll([K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html) key, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> values) Deprecated.  Adds a collection of values to the collection associated with the specified key.Parameters: key - the key to store against values - the values to add to the collection at the key, null ignored Returns: true if this map changed

#### iterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> iterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Deprecated.  Gets an iterator for the collection mapped to the specified key.Parameters: key - the key to get an iterator for Returns: the iterator of the collection at the key, empty iterator if key not in map

#### iterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)>> iterator() Deprecated.  Gets an iterator for all mappings stored in this [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html). The iterator will return multiple Entry objects with the same key if there are multiple values mapped to this key. NOTE: calling [Map.Entry.setValue(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true#setValue-V-) on any of the returned elements will result in a [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true).Returns: the iterator of all mappings in this map Since: 4.0

#### totalSize public int totalSize() Deprecated.  Gets the total size of the map by counting all the values.Returns: the total size of the map counting all values

#### createCollection protected [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)> createCollection(int size) Deprecated.  Creates a new instance of the map value Collection container using the factory. This method can be overridden to perform your own processing instead of using the factory.Parameters: size - the collection size that is about to be added Returns: the new collection

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