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org.apache.commons.collections4.map

## Interface CompositeMap.MapMutator<K,V>

* Type Parameters: K - the type of the keys in the map V - the type of the values in the map All Superinterfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true) Enclosing class: [CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)>  
    
  public static interface CompositeMap.MapMutator<K,V>  
  extends [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  This interface allows definition for all of the indeterminate mutators in a CompositeMap, as well as providing a hook for callbacks on key collisions.

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html) | * + [put](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html#put-org.apache.commons.collections4.map.CompositeMap-java.util.Map:A-K-V-)([CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> map, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)>[] composited, [K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html) value) Called when the CompositeMap.put() method is invoked. |
| * + void | * + [putAll](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html#putAll-org.apache.commons.collections4.map.CompositeMap-java.util.Map:A-java.util.Map-)([CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> map, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)>[] composited, [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/CompositeMap.MapMutator.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> mapToAdd) Called when the CompositeMap.putAll() method is invoked. |
| * + void | * + [resolveCollision](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html#resolveCollision-org.apache.commons.collections4.map.CompositeMap-java.util.Map-java.util.Map-java.util.Collection-)([CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> composite, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> existing, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> added, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> intersect) Called when adding a new Composited Map results in a key collision. |

### Method Detail

#### resolveCollision void resolveCollision([CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> composite, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> existing, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> added, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> intersect) Called when adding a new Composited Map results in a key collision.Parameters: composite - the CompositeMap with the collision existing - the Map already in the composite which contains the offending key added - the Map being added intersect - the intersection of the keysets of the existing and added maps

#### put [V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html) put([CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> map, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)>[] composited, [K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html) value) Called when the CompositeMap.put() method is invoked.Parameters: map - the CompositeMap which is being modified composited - array of Maps in the CompositeMap being modified key - key with which the specified value is to be associated. value - value to be associated with the specified key. Returns: previous value associated with specified key, or null if there was no mapping for key. A null return can also indicate that the map previously associated null with the specified key, if the implementation supports null values. Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if not defined [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the class of the specified key or value prevents it from being stored in this map. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if some aspect of this key or value prevents it from being stored in this map. [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - this map does not permit null keys or values, and the specified key or value is null.

#### putAll void putAll([CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> map, [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/CompositeMap.MapMutator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)>[] composited, [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/CompositeMap.MapMutator.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)> mapToAdd) Called when the CompositeMap.putAll() method is invoked.Parameters: map - the CompositeMap which is being modified composited - array of Maps in the CompositeMap being modified mapToAdd - Mappings to be stored in this CompositeMap Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if not defined [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the class of the specified key or value prevents it from being stored in this map. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if some aspect of this key or value prevents it from being stored in this map. [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - this map does not permit null keys or values, and the specified key or value is null.

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