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Hierarchy For Package org.apache.commons.collections4.map

Package Hierarchies:

* [All Packages](http://docs.google.com/overview-tree.html)

Class Hierarchy

* java.lang.[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + java.util.[AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<E> (implements java.util.[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>)
    - org.apache.commons.collections4.map.[AbstractHashedMap.Values](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.Values.html)<V>
    - java.util.[AbstractSet](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractSet.html?is-external=true)<E> (implements java.util.[Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E>)
      * org.apache.commons.collections4.map.[AbstractHashedMap.EntrySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySet.html)<K,V>
      * org.apache.commons.collections4.map.[AbstractHashedMap.KeySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.KeySet.html)<K>
  + org.apache.commons.collections4.collection.[AbstractCollectionDecorator](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html)<E> (implements java.util.[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - org.apache.commons.collections4.set.[AbstractSetDecorator](http://docs.google.com/org/apache/commons/collections4/set/AbstractSetDecorator.html)<E> (implements java.util.[Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E>)
      * org.apache.commons.collections4.map.[UnmodifiableEntrySet](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableEntrySet.html)<K,V> (implements org.apache.commons.collections4.[Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html))
  + org.apache.commons.collections4.map.[AbstractHashedMap.HashEntry](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashEntry.html)<K,V> (implements org.apache.commons.collections4.[KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<K,V>, java.util.[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<K,V>)
    - org.apache.commons.collections4.map.[AbstractLinkedMap.LinkEntry](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.LinkEntry.html)<K,V>
    - org.apache.commons.collections4.map.[AbstractReferenceMap.ReferenceEntry](http://docs.google.com/org/apache/commons/collections4/map/AbstractReferenceMap.ReferenceEntry.html)<K,V>
  + org.apache.commons.collections4.map.[AbstractHashedMap.HashIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashIterator.html)<K,V>
    - org.apache.commons.collections4.map.[AbstractHashedMap.EntrySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySetIterator.html)<K,V> (implements java.util.[Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>)
    - org.apache.commons.collections4.map.[AbstractHashedMap.HashMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashMapIterator.html)<K,V> (implements org.apache.commons.collections4.[MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V>)
    - org.apache.commons.collections4.map.[AbstractHashedMap.KeySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.KeySetIterator.html)<K> (implements java.util.[Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>)
    - org.apache.commons.collections4.map.[AbstractHashedMap.ValuesIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.ValuesIterator.html)<V> (implements java.util.[Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>)
  + org.apache.commons.collections4.map.[AbstractIterableMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractIterableMap.html)<K,V> (implements org.apache.commons.collections4.[IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.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.[AbstractOrderedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractOrderedMapDecorator.html)<K,V> (implements org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>)
        + org.apache.commons.collections4.map.[UnmodifiableOrderedMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableOrderedMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), org.apache.commons.collections4.[Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html))
      * org.apache.commons.collections4.map.[AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<K,V> (implements org.apache.commons.collections4.[IterableSortedMap](http://docs.google.com/org/apache/commons/collections4/IterableSortedMap.html)<K,V>)
        + org.apache.commons.collections4.map.[FixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)<K,V> (implements org.apache.commons.collections4.[BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.collections4.map.[UnmodifiableSortedMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableSortedMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), org.apache.commons.collections4.[Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html))
      * org.apache.commons.collections4.map.[DefaultedMap](http://docs.google.com/org/apache/commons/collections4/map/DefaultedMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
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      * org.apache.commons.collections4.map.[LazyMap](http://docs.google.com/org/apache/commons/collections4/map/LazyMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.collections4.map.[LazySortedMap](http://docs.google.com/org/apache/commons/collections4/map/LazySortedMap.html)<K,V> (implements java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)
      * org.apache.commons.collections4.map.[ListOrderedMap](http://docs.google.com/org/apache/commons/collections4/map/ListOrderedMap.html)<K,V> (implements org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[MultiKeyMap](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html)<K,V> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> (implements org.apache.commons.collections4.[MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<K,V>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[PassiveExpiringMap](http://docs.google.com/org/apache/commons/collections4/map/PassiveExpiringMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[PredicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.collections4.map.[PredicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)<K,V> (implements java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)
      * org.apache.commons.collections4.map.[TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/TransformedMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
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  + org.apache.commons.collections4.map.[AbstractLinkedMap.LinkIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.LinkIterator.html)<K,V>
    - org.apache.commons.collections4.map.[AbstractLinkedMap.EntrySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.EntrySetIterator.html)<K,V> (implements org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
    - org.apache.commons.collections4.map.[AbstractLinkedMap.KeySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.KeySetIterator.html)<K> (implements org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
    - org.apache.commons.collections4.map.[AbstractLinkedMap.LinkMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.LinkMapIterator.html)<K,V> (implements org.apache.commons.collections4.[OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
    - org.apache.commons.collections4.map.[AbstractLinkedMap.ValuesIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.ValuesIterator.html)<V> (implements org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
  + java.util.[AbstractMap](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractMap.html?is-external=true)<K,V> (implements java.util.[Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>)
    - org.apache.commons.collections4.map.[AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<K,V> (implements org.apache.commons.collections4.[IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>)
      * org.apache.commons.collections4.map.[AbstractLinkedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.html)<K,V> (implements org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>)
        + org.apache.commons.collections4.map.[LinkedMap](http://docs.google.com/org/apache/commons/collections4/map/LinkedMap.html)<K,V> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.collections4.map.[LRUMap](http://docs.google.com/org/apache/commons/collections4/map/LRUMap.html)<K,V> (implements org.apache.commons.collections4.[BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[AbstractReferenceMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractReferenceMap.html)<K,V>
        + org.apache.commons.collections4.map.[ReferenceIdentityMap](http://docs.google.com/org/apache/commons/collections4/map/ReferenceIdentityMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.collections4.map.[ReferenceMap](http://docs.google.com/org/apache/commons/collections4/map/ReferenceMap.html)<K,V> (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[CaseInsensitiveMap](http://docs.google.com/org/apache/commons/collections4/map/CaseInsensitiveMap.html)<K,V> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
      * org.apache.commons.collections4.map.[HashedMap](http://docs.google.com/org/apache/commons/collections4/map/HashedMap.html)<K,V> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
  + org.apache.commons.collections4.map.[EntrySetToMapIteratorAdapter](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html)<K,V> (implements org.apache.commons.collections4.[MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
    - org.apache.commons.collections4.map.[AbstractSortedMapDecorator.SortedMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)<K,V> (implements org.apache.commons.collections4.[OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V>)
  + org.apache.commons.collections4.map.[Flat3Map](http://docs.google.com/org/apache/commons/collections4/map/Flat3Map.html)<K,V> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), org.apache.commons.collections4.[IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
  + org.apache.commons.collections4.map.[PassiveExpiringMap.ConstantTimeToLiveExpirationPolicy](http://docs.google.com/org/apache/commons/collections4/map/PassiveExpiringMap.ConstantTimeToLiveExpirationPolicy.html)<K,V> (implements org.apache.commons.collections4.map.[PassiveExpiringMap.ExpirationPolicy](http://docs.google.com/org/apache/commons/collections4/map/PassiveExpiringMap.ExpirationPolicy.html)<K,V>)
  + org.apache.commons.collections4.map.[SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)<K,V> (implements org.apache.commons.collections4.[BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), org.apache.commons.collections4.[KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<K,V>, org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))

## Interface Hierarchy

* java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)
  + org.apache.commons.collections4.map.[CompositeMap.MapMutator](http://docs.google.com/org/apache/commons/collections4/map/CompositeMap.MapMutator.html)<K,V>
  + org.apache.commons.collections4.map.[PassiveExpiringMap.ExpirationPolicy](http://docs.google.com/org/apache/commons/collections4/map/PassiveExpiringMap.ExpirationPolicy.html)<K,V>

## Enum Hierarchy

* java.lang.[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + java.lang.[Enum](https://docs.oracle.com/javase/7/docs/api/java/lang/Enum.html?is-external=true)<E> (implements java.lang.[Comparable](https://docs.oracle.com/javase/7/docs/api/java/lang/Comparable.html?is-external=true)<T>, java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - org.apache.commons.collections4.map.[AbstractReferenceMap.ReferenceStrength](http://docs.google.com/org/apache/commons/collections4/map/AbstractReferenceMap.ReferenceStrength.html)

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* [No Frames](http://docs.google.com/package-tree.html)
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