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Uses of Package

org.apache.commons.collections4.map

* Packages that use [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html)

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| * Package | * Description |
| * [org.apache.commons.collections4](#3znysh7) | * This package contains the interfaces and utilities shared across all the subpackages of this component. |
| * [org.apache.commons.collections4.bidimap](#2et92p0) | * This package contains implementations of the [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html), [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html) and [SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html) interfaces. |
| * [org.apache.commons.collections4.map](#tyjcwt) | * This package contains implementations of the [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true), [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html), [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) and [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true) interfaces. |

* Classes in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) used by [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html)

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| * Class and Description |
| * [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/MultiValueMap.html#org.apache.commons.collections4) Deprecated.  since 4.1, use [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html) instead |

* Classes in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) used by [org.apache.commons.collections4.bidimap](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html)

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| * Class and Description |
| * [AbstractIterableMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractIterableMap.html#org.apache.commons.collections4.bidimap) Provide a basic [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html) implementation. |
| * [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractMapDecorator.html#org.apache.commons.collections4.bidimap) Provides a base decorator that enables additional functionality to be added to a Map via decoration. |
| * [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractSortedMapDecorator.html#org.apache.commons.collections4.bidimap) Provides a base decorator that enables additional functionality to be added to a Map via decoration. |

* Classes in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) used by [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html)

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| * Class and Description |
| * [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractHashedMap.html#org.apache.commons.collections4.map) An abstract implementation of a hash-based map which provides numerous points for subclasses to override. |
| * [AbstractHashedMap.HashEntry](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractHashedMap.HashEntry.html#org.apache.commons.collections4.map) HashEntry used to store the data. |
| * [AbstractHashedMap.HashIterator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractHashedMap.HashIterator.html#org.apache.commons.collections4.map) Base Iterator |
| * [AbstractIterableMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractIterableMap.html#org.apache.commons.collections4.map) Provide a basic [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html) implementation. |
| * [AbstractLinkedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractLinkedMap.html#org.apache.commons.collections4.map) An abstract implementation of a hash-based map that links entries to create an ordered map and which provides numerous points for subclasses to override. |
| * [AbstractLinkedMap.LinkEntry](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractLinkedMap.LinkEntry.html#org.apache.commons.collections4.map) LinkEntry that stores the data. |
| * [AbstractLinkedMap.LinkIterator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractLinkedMap.LinkIterator.html#org.apache.commons.collections4.map) Base Iterator that iterates in link order. |
| * [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractMapDecorator.html#org.apache.commons.collections4.map) Provides a base decorator that enables additional functionality to be added to a Map via decoration. |
| * [AbstractOrderedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractOrderedMapDecorator.html#org.apache.commons.collections4.map) Provides a base decorator that enables additional functionality to be added to an OrderedMap via decoration. |
| * [AbstractReferenceMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractReferenceMap.html#org.apache.commons.collections4.map) An abstract implementation of a hash-based map that allows the entries to be removed by the garbage collector. |
| * [AbstractReferenceMap.ReferenceEntry](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractReferenceMap.ReferenceEntry.html#org.apache.commons.collections4.map) A MapEntry implementation for the map. |
| * [AbstractReferenceMap.ReferenceStrength](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractReferenceMap.ReferenceStrength.html#org.apache.commons.collections4.map) Reference type enum. |
| * [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/class-use/AbstractSortedMapDecorator.html#org.apache.commons.collections4.map) Provides a base decorator that enables additional functionality to be added to a Map via decoration. |
| * [CaseInsensitiveMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/CaseInsensitiveMap.html#org.apache.commons.collections4.map) A case-insensitive Map. |
| * [CompositeMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/CompositeMap.html#org.apache.commons.collections4.map) Decorates a map of other maps to provide a single unified view. |
| * [CompositeMap.MapMutator](http://docs.google.com/org/apache/commons/collections4/map/class-use/CompositeMap.MapMutator.html#org.apache.commons.collections4.map) This interface allows definition for all of the indeterminate mutators in a CompositeMap, as well as providing a hook for callbacks on key collisions. |
| * [DefaultedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/DefaultedMap.html#org.apache.commons.collections4.map) Decorates another Map returning a default value if the map does not contain the requested key. |
| * [EntrySetToMapIteratorAdapter](http://docs.google.com/org/apache/commons/collections4/map/class-use/EntrySetToMapIteratorAdapter.html#org.apache.commons.collections4.map) Adapts a Map entrySet to the MapIterator interface. |
| * [FixedSizeMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/FixedSizeMap.html#org.apache.commons.collections4.map) Decorates another Map to fix the size, preventing add/remove. |
| * [FixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/FixedSizeSortedMap.html#org.apache.commons.collections4.map) Decorates another SortedMap to fix the size blocking add/remove. |
| * [Flat3Map](http://docs.google.com/org/apache/commons/collections4/map/class-use/Flat3Map.html#org.apache.commons.collections4.map) A Map implementation that stores data in simple fields until the size is greater than 3. |
| * [HashedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/HashedMap.html#org.apache.commons.collections4.map) A Map implementation that is a general purpose alternative to HashMap. |
| * [LazyMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/LazyMap.html#org.apache.commons.collections4.map) Decorates another Map to create objects in the map on demand. |
| * [LazySortedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/LazySortedMap.html#org.apache.commons.collections4.map) Decorates another SortedMap to create objects in the map on demand. |
| * [LinkedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/LinkedMap.html#org.apache.commons.collections4.map) A Map implementation that maintains the order of the entries. |
| * [ListOrderedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/ListOrderedMap.html#org.apache.commons.collections4.map) Decorates a Map to ensure that the order of addition is retained using a List to maintain order. |
| * [LRUMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/LRUMap.html#org.apache.commons.collections4.map) A Map implementation with a fixed maximum size which removes the least recently used entry if an entry is added when full. |
| * [MultiKeyMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/MultiKeyMap.html#org.apache.commons.collections4.map) A Map implementation that uses multiple keys to map the value. |
| * [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/MultiValueMap.html#org.apache.commons.collections4.map) Deprecated.  since 4.1, use [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html) instead |
| * [PassiveExpiringMap.ExpirationPolicy](http://docs.google.com/org/apache/commons/collections4/map/class-use/PassiveExpiringMap.ExpirationPolicy.html#org.apache.commons.collections4.map) A policy to determine the expiration time for key-value entries. |
| * [PredicatedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/PredicatedMap.html#org.apache.commons.collections4.map) Decorates another Map to validate that additions match a specified predicate. |
| * [PredicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/PredicatedSortedMap.html#org.apache.commons.collections4.map) Decorates another SortedMap to validate that additions match a specified predicate. |
| * [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/SingletonMap.html#org.apache.commons.collections4.map) A Map implementation that holds a single item and is fixed size. |
| * [TransformedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/TransformedMap.html#org.apache.commons.collections4.map) Decorates another Map to transform objects that are added. |
| * [TransformedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/class-use/TransformedSortedMap.html#org.apache.commons.collections4.map) Decorates another SortedMap to transform objects that are added. |

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