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Uses of Interface

org.apache.commons.collections4.BidiMap

* Packages that use [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.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. |

### Uses of [**BidiMap**](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) in [**org.apache.commons.collections4**](http://docs.google.com/org/apache/commons/collections4/package-summary.html)Subinterfaces of [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) in [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html)

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| * + Modifier and Type | * + Interface and Description |
| * + interface | * + [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> Defines a map that allows bidirectional lookup between key and values and retains and provides access to an ordering. |
| * + interface | * + [SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V> Defines a map that allows bidirectional lookup between key and values and retains both keys and values in sorted order. |

* + Methods in [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html) that return [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)

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| * + Modifier and Type | * + Method and Description |
| * + [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/BidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)> | * + BidiMap.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html#inverseBidiMap--)() Gets a view of this map where the keys and values are reversed. |

### Uses of [**BidiMap**](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) in [**org.apache.commons.collections4.bidimap**](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html)Classes in [org.apache.commons.collections4.bidimap](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html) that implement [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [AbstractBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html)<K,V> Provides a base decorator that enables additional functionality to be added to a BidiMap via decoration. |
| * + class | * + [AbstractDualBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)<K,V> Abstract [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) implemented using two maps. |
| * + class | * + [AbstractOrderedBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html)<K,V> Provides a base decorator that enables additional functionality to be added to an OrderedBidiMap via decoration. |
| * + class | * + [AbstractSortedBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractSortedBidiMapDecorator.html)<K,V> Provides a base decorator that enables additional functionality to be added to a SortedBidiMap via decoration. |
| * + class | * + [DualHashBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)<K,V> Implementation of [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) that uses two [HashMap](https://docs.oracle.com/javase/7/docs/api/java/util/HashMap.html?is-external=true) instances. |
| * + class | * + [DualLinkedHashBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)<K,V> Implementation of BidiMap that uses two LinkedHashMap instances. |
| * + class | * + [DualTreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)<K,V> Implementation of [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) that uses two [TreeMap](https://docs.oracle.com/javase/7/docs/api/java/util/TreeMap.html?is-external=true) instances. |
| * + class | * + [TreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/TreeBidiMap.html)<K extends [Comparable](https://docs.oracle.com/javase/7/docs/api/java/lang/Comparable.html?is-external=true)<K>,V extends [Comparable](https://docs.oracle.com/javase/7/docs/api/java/lang/Comparable.html?is-external=true)<V>> Red-Black tree-based implementation of BidiMap where all objects added implement the Comparable interface. |
| * + class | * + [UnmodifiableBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableBidiMap.html)<K,V> Decorates another [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html) to ensure it can't be altered. |
| * + class | * + [UnmodifiableOrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html)<K,V> Decorates another [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html) to ensure it can't be altered. |
| * + class | * + [UnmodifiableSortedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableSortedBidiMap.html)<K,V> Decorates another [SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html) to ensure it can't be altered. |

* + Methods in [org.apache.commons.collections4.bidimap](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html) that return [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)

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| * + Modifier and Type | * + Method and Description |
| * + protected abstract [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> | * + AbstractDualBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> normalMap, [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/bidimap/AbstractDualBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> inverseMap) Creates a new instance of the subclass. |
| * + protected [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> | * + DualHashBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> normalMap, [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/bidimap/DualHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> inverseBidiMap) Creates a new instance of this object. |
| * + protected [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> | * + DualLinkedHashBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> normalMap, [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/bidimap/DualLinkedHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> inverseBidiMap) Creates a new instance of this object. |
| * + protected [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html)> | * + AbstractBidiMapDecorator.[decorated](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html#decorated--)() Gets the map being decorated. |
| * + [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html)> | * + AbstractBidiMapDecorator.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html#inverseBidiMap--)() |
| * + [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> | * + AbstractDualBidiMap.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html#inverseBidiMap--)() |
| * + [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableBidiMap.html)> | * + UnmodifiableBidiMap.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableBidiMap.html#inverseBidiMap--)() |
| * + static <K,V> [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V> | * + UnmodifiableBidiMap.[unmodifiableBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableBidiMap.html#unmodifiableBidiMap-org.apache.commons.collections4.BidiMap-)([BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<? extends K,? extends V> map) Factory method to create an unmodifiable map. |

* + Methods in [org.apache.commons.collections4.bidimap](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html) with parameters of type [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)

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| * + Modifier and Type | * + Method and Description |
| * + protected abstract [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> | * + AbstractDualBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> normalMap, [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/bidimap/AbstractDualBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> inverseMap) Creates a new instance of the subclass. |
| * + protected [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> | * + DualHashBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> normalMap, [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/bidimap/DualHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> inverseBidiMap) Creates a new instance of this object. |
| * + protected [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> | * + DualLinkedHashBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> normalMap, [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/bidimap/DualLinkedHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> inverseBidiMap) Creates a new instance of this object. |
| * + protected [DualTreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> | * + DualTreeBidiMap.[createBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html#createBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> normalMap, [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/bidimap/DualTreeBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> inverseMap) Creates a new instance of this object. |
| * + static <K,V> [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V> | * + UnmodifiableBidiMap.[unmodifiableBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableBidiMap.html#unmodifiableBidiMap-org.apache.commons.collections4.BidiMap-)([BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<? extends K,? extends V> map) Factory method to create an unmodifiable map. |

* + Constructors in [org.apache.commons.collections4.bidimap](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html) with parameters of type [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)

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| * + Constructor and Description |
| * + [AbstractBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html#AbstractBidiMapDecorator-org.apache.commons.collections4.BidiMap-)([BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html)> map) Constructor that wraps (not copies). |
| * + [AbstractDualBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html#AbstractDualBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([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/bidimap/AbstractDualBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> normalMap, [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.html)> inverseBidiMap) Constructs a map that decorates the specified maps, used by the subclass createBidiMap implementation. |
| * + [DualHashBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html#DualHashBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([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/bidimap/DualHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> normalMap, [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualHashBidiMap.html)> inverseBidiMap) Constructs a HashBidiMap that decorates the specified maps. |
| * + [DualLinkedHashBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html#DualLinkedHashBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([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/bidimap/DualLinkedHashBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> normalMap, [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualLinkedHashBidiMap.html)> inverseBidiMap) Constructs a LinkedHashBidiMap that decorates the specified maps. |
| * + [DualTreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html#DualTreeBidiMap-java.util.Map-java.util.Map-org.apache.commons.collections4.BidiMap-)([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/bidimap/DualTreeBidiMap.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> normalMap, [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> reverseMap, [BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html)> inverseBidiMap) Constructs a [DualTreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html) that decorates the specified maps. |

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