JavaScript is disabled on your browser.

[Skip navigation links](#1fob9te)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* [Class](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)
* Use
* [Tree](http://docs.google.com/overview-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* Prev
* Next
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/class-use/OrderedBidiMap.html)
* [No Frames](http://docs.google.com/OrderedBidiMap.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)

Uses of Interface

org.apache.commons.collections4.OrderedBidiMap

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

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Interface and Description |
| * + 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 [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)

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

### Uses of [**OrderedBidiMap**](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.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 [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + 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 | * + [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 | * + [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 [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html)> | * + AbstractOrderedBidiMapDecorator.[decorated](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html#decorated--)() Gets the map being decorated. |
| * + [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html)> | * + AbstractOrderedBidiMapDecorator.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html#inverseBidiMap--)() |
| * + [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/TreeBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/TreeBidiMap.html)> | * + TreeBidiMap.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/TreeBidiMap.html#inverseBidiMap--)() Gets the inverse map for comparison. |
| * + [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html)> | * + UnmodifiableOrderedBidiMap.[inverseBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html#inverseBidiMap--)() |
| * + [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.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.[inverseOrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html#inverseOrderedBidiMap--)() |
| * + [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<[V](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html),[K](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html)> | * + UnmodifiableOrderedBidiMap.[inverseOrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html#inverseOrderedBidiMap--)() Gets an unmodifiable view of this map where the keys and values are reversed. |
| * + static <K,V> [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> | * + UnmodifiableOrderedBidiMap.[unmodifiableOrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html#unmodifiableOrderedBidiMap-org.apache.commons.collections4.OrderedBidiMap-)([OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.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 [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <K,V> [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> | * + UnmodifiableOrderedBidiMap.[unmodifiableOrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html#unmodifiableOrderedBidiMap-org.apache.commons.collections4.OrderedBidiMap-)([OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.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 [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)

|  |
| --- |
| * + Constructor and Description |
| * + [AbstractOrderedBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html#AbstractOrderedBidiMapDecorator-org.apache.commons.collections4.OrderedBidiMap-)([OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html)> map) Constructor that wraps (not copies). |

[Skip navigation links](#1t3h5sf)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* [Class](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)
* Use
* [Tree](http://docs.google.com/overview-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* Prev
* Next
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/class-use/OrderedBidiMap.html)
* [No Frames](http://docs.google.com/OrderedBidiMap.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)

Copyright © 2001–2019 [The Apache Software Foundation](https://www.apache.org/). All rights reserved.