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Uses of Class

org.apache.commons.collections4.bidimap.AbstractBidiMapDecorator

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

|  |  |
| --- | --- |
| * Package | * Description |
| * [org.apache.commons.collections4.bidimap](#3znysh7) | * 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 [**AbstractBidiMapDecorator**](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html) in [**org.apache.commons.collections4.bidimap**](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.html)Subclasses of [AbstractBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractBidiMapDecorator.html) in [org.apache.commons.collections4.bidimap](http://docs.google.com/org/apache/commons/collections4/bidimap/package-summary.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 | * + [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. |

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