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Uses of Interface

org.apache.commons.collections4.Unmodifiable

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

|  |  |
| --- | --- |
| * Package | * Description |
| * [org.apache.commons.collections4.bag](#3znysh7) | * This package contains implementations of the [Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html) and [SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html) interfaces. |
| * [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.collection](#tyjcwt) | * This package contains implementations of the [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) interface. |
| * [org.apache.commons.collections4.iterators](#3dy6vkm) | * This package contains implementations of the [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) interface. |
| * [org.apache.commons.collections4.keyvalue](#1t3h5sf) | * This package contains implementations of collection and map related key/value classes. |
| * [org.apache.commons.collections4.list](#4d34og8) | * This package contains implementations of the [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true) interface. |
| * [org.apache.commons.collections4.map](#2s8eyo1) | * 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. |
| * [org.apache.commons.collections4.multimap](#17dp8vu) | * This package contains implementations of the [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html) interfaces. |
| * [org.apache.commons.collections4.multiset](#3rdcrjn) | * This package contains implementations of the [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html) interface. |
| * [org.apache.commons.collections4.queue](#26in1rg) | * This package contains implementations for the [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) interface. |
| * [org.apache.commons.collections4.set](#lnxbz9) | * This package contains implementations of the [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true), [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true) and [NavigableSet](https://docs.oracle.com/javase/7/docs/api/java/util/NavigableSet.html?is-external=true) interfaces. |
| * [org.apache.commons.collections4.trie](#35nkun2) | * This package contains implementations of the [Trie](http://docs.google.com/org/apache/commons/collections4/Trie.html) interface. |

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

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableBag](http://docs.google.com/org/apache/commons/collections4/bag/UnmodifiableBag.html)<E> Decorates another [Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html) to ensure it can't be altered. |
| * + class | * + [UnmodifiableSortedBag](http://docs.google.com/org/apache/commons/collections4/bag/UnmodifiableSortedBag.html)<E> Decorates another [SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html) to ensure it can't be altered. |

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

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| * + Modifier and Type | * + Class and Description |
| * + 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. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableBoundedCollection](http://docs.google.com/org/apache/commons/collections4/collection/UnmodifiableBoundedCollection.html)<E> [UnmodifiableBoundedCollection](http://docs.google.com/org/apache/commons/collections4/collection/UnmodifiableBoundedCollection.html) decorates another [BoundedCollection](http://docs.google.com/org/apache/commons/collections4/BoundedCollection.html) to ensure it can't be altered. |
| * + class | * + [UnmodifiableCollection](http://docs.google.com/org/apache/commons/collections4/collection/UnmodifiableCollection.html)<E> Decorates another [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) to ensure it can't be altered. |

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

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableIterator.html)<E> Decorates an iterator such that it cannot be modified. |
| * + class | * + [UnmodifiableListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html)<E> Decorates a list iterator such that it cannot be modified. |
| * + class | * + [UnmodifiableMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableMapIterator.html)<K,V> Decorates a map iterator such that it cannot be modified. |
| * + class | * + [UnmodifiableOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)<K,V> Decorates an ordered map iterator such that it cannot be modified. |

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

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableMapEntry](http://docs.google.com/org/apache/commons/collections4/keyvalue/UnmodifiableMapEntry.html)<K,V> A [Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true) that throws UnsupportedOperationException when setValue is called. |

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

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableList](http://docs.google.com/org/apache/commons/collections4/list/UnmodifiableList.html)<E> Decorates another List to ensure it can't be altered. |

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

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| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableEntrySet](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableEntrySet.html)<K,V> Decorates a map entry Set to ensure it can't be altered. |
| * + class | * + [UnmodifiableMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableMap.html)<K,V> Decorates another Map to ensure it can't be altered. |
| * + class | * + [UnmodifiableOrderedMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableOrderedMap.html)<K,V> Decorates another OrderedMap to ensure it can't be altered. |
| * + class | * + [UnmodifiableSortedMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableSortedMap.html)<K,V> Decorates another SortedMap to ensure it can't be altered. |

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

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableMultiValuedMap](http://docs.google.com/org/apache/commons/collections4/multimap/UnmodifiableMultiValuedMap.html)<K,V> Decorates another [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html) to ensure it can't be altered. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/UnmodifiableMultiSet.html)<E> Decorates another [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html) to ensure it can't be altered. |

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

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| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableQueue](http://docs.google.com/org/apache/commons/collections4/queue/UnmodifiableQueue.html)<E> Decorates another [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) to ensure it can't be altered. |

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

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| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableNavigableSet](http://docs.google.com/org/apache/commons/collections4/set/UnmodifiableNavigableSet.html)<E> Decorates another NavigableSet to ensure it can't be altered. |
| * + class | * + [UnmodifiableSet](http://docs.google.com/org/apache/commons/collections4/set/UnmodifiableSet.html)<E> Decorates another Set to ensure it can't be altered. |
| * + class | * + [UnmodifiableSortedSet](http://docs.google.com/org/apache/commons/collections4/set/UnmodifiableSortedSet.html)<E> Decorates another SortedSet to ensure it can't be altered. |

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

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [UnmodifiableTrie](http://docs.google.com/org/apache/commons/collections4/trie/UnmodifiableTrie.html)<K,V> An unmodifiable [Trie](http://docs.google.com/org/apache/commons/collections4/Trie.html). |

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* [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/Unmodifiable.html)
* [No Frames](http://docs.google.com/Unmodifiable.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)

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