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Hierarchy For Package org.apache.commons.collections4

Package Hierarchies:

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Class Hierarchy

* java.lang.[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + java.util.[AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<E> (implements java.util.[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>)
    - java.util.[AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<E> (implements java.util.[List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E>)
      * java.util.[ArrayList](https://docs.oracle.com/javase/7/docs/api/java/util/ArrayList.html?is-external=true)<E> (implements java.lang.[Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), java.util.[List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E>, java.util.[RandomAccess](https://docs.oracle.com/javase/7/docs/api/java/util/RandomAccess.html?is-external=true), java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
        + org.apache.commons.collections4.[ArrayStack](http://docs.google.com/org/apache/commons/collections4/ArrayStack.html)<E>
    - java.util.[AbstractSet](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractSet.html?is-external=true)<E> (implements java.util.[Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E>)
      * org.apache.commons.collections4.[SetUtils.SetView](http://docs.google.com/org/apache/commons/collections4/SetUtils.SetView.html)<E>
  + org.apache.commons.collections4.[BagUtils](http://docs.google.com/org/apache/commons/collections4/BagUtils.html)
  + org.apache.commons.collections4.[ClosureUtils](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html)
  + org.apache.commons.collections4.[CollectionUtils](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html)
  + org.apache.commons.collections4.[ComparatorUtils](http://docs.google.com/org/apache/commons/collections4/ComparatorUtils.html)
  + org.apache.commons.collections4.[EnumerationUtils](http://docs.google.com/org/apache/commons/collections4/EnumerationUtils.html)
  + org.apache.commons.collections4.[FactoryUtils](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html)
  + org.apache.commons.collections4.[FluentIterable](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)<E> (implements java.lang.[Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T>)
  + org.apache.commons.collections4.[IterableUtils](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html)
  + org.apache.commons.collections4.[IteratorUtils](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html)
  + org.apache.commons.collections4.[ListUtils](http://docs.google.com/org/apache/commons/collections4/ListUtils.html)
  + org.apache.commons.collections4.[MapUtils](http://docs.google.com/org/apache/commons/collections4/MapUtils.html)
  + org.apache.commons.collections4.[MultiMapUtils](http://docs.google.com/org/apache/commons/collections4/MultiMapUtils.html)
  + org.apache.commons.collections4.[MultiSetUtils](http://docs.google.com/org/apache/commons/collections4/MultiSetUtils.html)
  + org.apache.commons.collections4.[PredicateUtils](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html)
  + org.apache.commons.collections4.[QueueUtils](http://docs.google.com/org/apache/commons/collections4/QueueUtils.html)
  + org.apache.commons.collections4.[SetUtils](http://docs.google.com/org/apache/commons/collections4/SetUtils.html)
  + org.apache.commons.collections4.[SplitMapUtils](http://docs.google.com/org/apache/commons/collections4/SplitMapUtils.html)
  + java.lang.[Throwable](https://docs.oracle.com/javase/7/docs/api/java/lang/Throwable.html?is-external=true) (implements java.io.[Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true))
    - java.lang.[Exception](https://docs.oracle.com/javase/7/docs/api/java/lang/Exception.html?is-external=true)
      * java.lang.[RuntimeException](https://docs.oracle.com/javase/7/docs/api/java/lang/RuntimeException.html?is-external=true)
        + org.apache.commons.collections4.[FunctorException](http://docs.google.com/org/apache/commons/collections4/FunctorException.html)
  + org.apache.commons.collections4.[TransformerUtils](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html)
  + org.apache.commons.collections4.[TrieUtils](http://docs.google.com/org/apache/commons/collections4/TrieUtils.html)

## Interface Hierarchy

* org.apache.commons.collections4.[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<T>
* org.apache.commons.collections4.[Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html)<T>
* org.apache.commons.collections4.[Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T>
* org.apache.commons.collections4.[Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,V>
  + org.apache.commons.collections4.[IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,V>
    - org.apache.commons.collections4.[IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V> (also extends java.util.[Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>, org.apache.commons.collections4.[Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V>)
      * org.apache.commons.collections4.[BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V>
        + org.apache.commons.collections4.[OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> (also extends org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>)

org.apache.commons.collections4.[SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)

* + - * org.apache.commons.collections4.[BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>
      * org.apache.commons.collections4.[MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<K,V>
      * org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>
        + org.apache.commons.collections4.[IterableSortedMap](http://docs.google.com/org/apache/commons/collections4/IterableSortedMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)

org.apache.commons.collections4.[Trie](http://docs.google.com/org/apache/commons/collections4/Trie.html)<K,V>

* + - * + org.apache.commons.collections4.[OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> (also extends org.apache.commons.collections4.[BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V>)

org.apache.commons.collections4.[SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)

* java.lang.[Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T>
  + java.util.[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>
    - org.apache.commons.collections4.[Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html)<E>
      * org.apache.commons.collections4.[SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html)<E>
    - org.apache.commons.collections4.[BoundedCollection](http://docs.google.com/org/apache/commons/collections4/BoundedCollection.html)<E>
    - org.apache.commons.collections4.[MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E>
* java.util.[Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>
  + java.util.[ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>
    - org.apache.commons.collections4.[ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E> (also extends org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
  + org.apache.commons.collections4.[MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V>
    - org.apache.commons.collections4.[OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V> (also extends org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>)
  + org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>
    - org.apache.commons.collections4.[OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V> (also extends org.apache.commons.collections4.[MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V>)
    - org.apache.commons.collections4.[ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E> (also extends java.util.[ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>, org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>)
  + org.apache.commons.collections4.[ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>
    - org.apache.commons.collections4.[ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E> (also extends java.util.[ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>, org.apache.commons.collections4.[OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>)
* org.apache.commons.collections4.[KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<K,V>
* java.util.[Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>
  + org.apache.commons.collections4.[IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V> (also extends org.apache.commons.collections4.[IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,V>, org.apache.commons.collections4.[Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V>)
    - org.apache.commons.collections4.[BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V>
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        + org.apache.commons.collections4.[SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)
    - org.apache.commons.collections4.[BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>
    - org.apache.commons.collections4.[MultiMap](http://docs.google.com/org/apache/commons/collections4/MultiMap.html)<K,V>
    - org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>
      * org.apache.commons.collections4.[IterableSortedMap](http://docs.google.com/org/apache/commons/collections4/IterableSortedMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)
        + org.apache.commons.collections4.[Trie](http://docs.google.com/org/apache/commons/collections4/Trie.html)<K,V>
      * org.apache.commons.collections4.[OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> (also extends org.apache.commons.collections4.[BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V>)
        + org.apache.commons.collections4.[SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)
  + java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>
    - org.apache.commons.collections4.[IterableSortedMap](http://docs.google.com/org/apache/commons/collections4/IterableSortedMap.html)<K,V> (also extends org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>)
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* org.apache.commons.collections4.[MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html)<K,V>
  + org.apache.commons.collections4.[ListValuedMap](http://docs.google.com/org/apache/commons/collections4/ListValuedMap.html)<K,V>
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* org.apache.commons.collections4.[Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V>
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    - org.apache.commons.collections4.[BidiMap](http://docs.google.com/org/apache/commons/collections4/BidiMap.html)<K,V>
      * org.apache.commons.collections4.[OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V> (also extends org.apache.commons.collections4.[OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>)
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        + org.apache.commons.collections4.[SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V> (also extends java.util.[SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>)
* org.apache.commons.collections4.[Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O>
* org.apache.commons.collections4.[Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html)

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