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org.apache.commons.collections4

## Interface OrderedMap<K,V>

* Type Parameters: K - the type of the keys in the map V - the type of the values in the map All Superinterfaces: [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,V>, [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,V>, [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>, [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>, [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V> All Known Subinterfaces: [IterableSortedMap](http://docs.google.com/org/apache/commons/collections4/IterableSortedMap.html)<K,V>, [OrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/OrderedBidiMap.html)<K,V>, [SortedBidiMap](http://docs.google.com/org/apache/commons/collections4/SortedBidiMap.html)<K,V>, [Trie](http://docs.google.com/org/apache/commons/collections4/Trie.html)<K,V> All Known Implementing Classes: [AbstractBitwiseTrie](http://docs.google.com/org/apache/commons/collections4/trie/AbstractBitwiseTrie.html), [AbstractLinkedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.html), [AbstractOrderedBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractOrderedBidiMapDecorator.html), [AbstractOrderedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractOrderedMapDecorator.html), [AbstractSortedBidiMapDecorator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractSortedBidiMapDecorator.html), [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html), [DualTreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.html), [DualTreeBidiMap.ViewMap](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.ViewMap.html), [FixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html), [LinkedMap](http://docs.google.com/org/apache/commons/collections4/map/LinkedMap.html), [ListOrderedMap](http://docs.google.com/org/apache/commons/collections4/map/ListOrderedMap.html), [LRUMap](http://docs.google.com/org/apache/commons/collections4/map/LRUMap.html), [PatriciaTrie](http://docs.google.com/org/apache/commons/collections4/trie/PatriciaTrie.html), [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html), [TreeBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/TreeBidiMap.html), [UnmodifiableOrderedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableOrderedBidiMap.html), [UnmodifiableOrderedMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableOrderedMap.html), [UnmodifiableSortedBidiMap](http://docs.google.com/org/apache/commons/collections4/bidimap/UnmodifiableSortedBidiMap.html), [UnmodifiableSortedMap](http://docs.google.com/org/apache/commons/collections4/map/UnmodifiableSortedMap.html), [UnmodifiableTrie](http://docs.google.com/org/apache/commons/collections4/trie/UnmodifiableTrie.html)  
    
  public interface OrderedMap<K,V>  
  extends [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>  
  Defines a map that maintains order and allows both forward and backward iteration through that order.Since: 3.0

### Nested Class Summary

### Nested classes/interfaces inherited from interface java.util.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true),[V](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)>

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) | * + [firstKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#firstKey--)() Gets the first key currently in this map. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) | * + [lastKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#lastKey--)() Gets the last key currently in this map. |
| * + [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)> | * + [mapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#mapIterator--)() Obtains an OrderedMapIterator over the map. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) | * + [nextKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#nextKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) key) Gets the next key after the one specified. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) | * + [previousKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#previousKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) key) Gets the previous key before the one specified. |

### Methods inherited from interface java.util.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[clear](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--), [compute](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#compute-K-java.util.function.BiFunction-), [computeIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfAbsent-K-java.util.function.Function-), [computeIfPresent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfPresent-K-java.util.function.BiFunction-), [containsKey](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsKey-java.lang.Object-), [containsValue](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-), [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--), [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#equals-java.lang.Object-), [forEach](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#forEach-java.util.function.BiConsumer-), [get](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#get-java.lang.Object-), [getOrDefault](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#getOrDefault-java.lang.Object-V-), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#hashCode--), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#isEmpty--), [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--), [merge](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#merge-K-V-java.util.function.BiFunction-), [put](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-), [putAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-), [putIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putIfAbsent-K-V-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-java.lang.Object-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-V-), [replaceAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replaceAll-java.util.function.BiFunction-), [size](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#size--), [values](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--)

### Methods inherited from interface org.apache.commons.collections4.[**Put**](http://docs.google.com/org/apache/commons/collections4/Put.html)[clear](http://docs.google.com/org/apache/commons/collections4/Put.html#clear--), [put](http://docs.google.com/org/apache/commons/collections4/Put.html#put-K-V-), [putAll](http://docs.google.com/org/apache/commons/collections4/Put.html#putAll-java.util.Map-)

### Methods inherited from interface org.apache.commons.collections4.[**Get**](http://docs.google.com/org/apache/commons/collections4/Get.html)[containsKey](http://docs.google.com/org/apache/commons/collections4/Get.html#containsKey-java.lang.Object-), [containsValue](http://docs.google.com/org/apache/commons/collections4/Get.html#containsValue-java.lang.Object-), [entrySet](http://docs.google.com/org/apache/commons/collections4/Get.html#entrySet--), [get](http://docs.google.com/org/apache/commons/collections4/Get.html#get-java.lang.Object-), [isEmpty](http://docs.google.com/org/apache/commons/collections4/Get.html#isEmpty--), [keySet](http://docs.google.com/org/apache/commons/collections4/Get.html#keySet--), [remove](http://docs.google.com/org/apache/commons/collections4/Get.html#remove-java.lang.Object-), [size](http://docs.google.com/org/apache/commons/collections4/Get.html#size--), [values](http://docs.google.com/org/apache/commons/collections4/Get.html#values--)

### Method Detail

#### mapIterator [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)> mapIterator() Obtains an OrderedMapIterator over the map. A ordered map iterator is an efficient way of iterating over maps in both directions.Specified by: [mapIterator](http://docs.google.com/org/apache/commons/collections4/IterableGet.html#mapIterator--) in interface [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<[K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)> Returns: a map iterator

#### firstKey [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) firstKey() Gets the first key currently in this map.Returns: the first key currently in this map Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if this map is empty

#### lastKey [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) lastKey() Gets the last key currently in this map.Returns: the last key currently in this map Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if this map is empty

#### nextKey [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) nextKey([K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) key) Gets the next key after the one specified.Parameters: key - the key to search for next from Returns: the next key, null if no match or at end

#### previousKey [K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) previousKey([K](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) key) Gets the previous key before the one specified.Parameters: key - the key to search for previous from Returns: the previous key, null if no match or at start

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