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[Skip navigation links](#1fob9te)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/MapIterator.html)
* [Tree](http://docs.google.com/package-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 Class](http://docs.google.com/org/apache/commons/collections4/ListValuedMap.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/MapUtils.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/MapIterator.html)
* [No Frames](http://docs.google.com/MapIterator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* Constr |
* [Method](#3znysh7)
* Detail:
* Field |
* Constr |
* [Method](#tyjcwt)

org.apache.commons.collections4

## Interface MapIterator<K,V>

* Type Parameters: K - the type of the keys in the map V - the type of the values in the map All Superinterfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<K> All Known Subinterfaces: [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V> All Known Implementing Classes: [AbstractDualBidiMap.BidiMapIterator](http://docs.google.com/org/apache/commons/collections4/bidimap/AbstractDualBidiMap.BidiMapIterator.html), [AbstractHashedMap.HashMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashMapIterator.html), [AbstractLinkedMap.LinkMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.LinkMapIterator.html), [AbstractMapIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html), [AbstractOrderedMapIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractOrderedMapIteratorDecorator.html), [AbstractSortedMapDecorator.SortedMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html), [DualTreeBidiMap.BidiOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.BidiOrderedMapIterator.html), [EmptyMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html), [EmptyOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyOrderedMapIterator.html), [EntrySetMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html), [EntrySetToMapIteratorAdapter](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html), [UnmodifiableMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableMapIterator.html), [UnmodifiableOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)  
    
  public interface MapIterator<K,V>  
  extends [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<K>  
  Defines an iterator that operates over a Map.  
  This iterator is a special version designed for maps. It can be more efficient to use this rather than an entry set iterator where the option is available, and it is certainly more convenient.  
  A map that provides this interface may not hold the data internally using Map Entry objects, thus this interface can avoid lots of object creation.  
  In use, this iterator iterates through the keys in the map. After each call to next(), the getValue() method provides direct access to the value. The value can also be set using setValue().  
   MapIterator<String,Integer> it = map.mapIterator();  
   while (it.hasNext()) {  
   String key = it.next();  
   Integer value = it.getValue();  
   it.setValue(value + 1);  
   }  
   Since: 3.0

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) | * + [getKey](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#getKey--)() Gets the current key, which is the key returned by the last call to next(). |
| * + [V](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) | * + [getValue](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#getValue--)() Gets the current value, which is the value associated with the last key returned by next(). |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#hasNext--)() Checks to see if there are more entries still to be iterated. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#next--)() Gets the next *key* from the Map. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#remove--)() Removes the last returned key from the underlying Map (optional operation). |
| * + [V](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) | * + [setValue](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#setValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) value) Sets the value associated with the current key (optional operation). |

### Methods inherited from interface java.util.[**Iterator**](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)[forEachRemaining](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#forEachRemaining-java.util.function.Consumer-)

### Method Detail

#### hasNext boolean hasNext() Checks to see if there are more entries still to be iterated.Specified by: [hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#hasNext--) in interface [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)> Returns: true if the iterator has more elements

#### next [K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) next() Gets the next *key* from the Map.Specified by: [next](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#next--) in interface [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)> Returns: the next key in the iteration Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if the iteration is finished

#### getKey [K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) getKey() Gets the current key, which is the key returned by the last call to next().Returns: the current key Throws: [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if next() has not yet been called

#### getValue [V](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) getValue() Gets the current value, which is the value associated with the last key returned by next().Returns: the current value Throws: [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if next() has not yet been called

#### remove void remove() Removes the last returned key from the underlying Map (optional operation). This method can be called once per call to next().Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#remove--) in interface [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)> Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if remove is not supported by the map [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if next() has not yet been called [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if remove() has already been called since the last call to next()

#### setValue [V](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) setValue([V](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) value) Sets the value associated with the current key (optional operation).Parameters: value - the new value Returns: the previous value Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if setValue is not supported by the map [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if next() has not yet been called [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if remove() has been called since the last call to next()

[Skip navigation links](#1ksv4uv)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/MapIterator.html)
* [Tree](http://docs.google.com/package-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 Class](http://docs.google.com/org/apache/commons/collections4/ListValuedMap.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/MapUtils.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/MapIterator.html)
* [No Frames](http://docs.google.com/MapIterator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* Constr |
* [Method](#3znysh7)
* Detail:
* Field |
* Constr |
* [Method](#tyjcwt)

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