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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/AbstractMapIteratorDecorator.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/iterators/AbstractListIteratorDecorator.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractOrderedMapIteratorDecorator.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)
* [No Frames](http://docs.google.com/AbstractMapIteratorDecorator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#1t3h5sf) |
* [Method](#2s8eyo1)

org.apache.commons.collections4.iterators

## Class AbstractMapIteratorDecorator<K,V>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.AbstractMapIteratorDecorator<K,V>
* Type Parameters: K - the type of keys V - the type of mapped values All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<K>, [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V>  
    
  public class AbstractMapIteratorDecorator<K,V>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V>  
  Provides basic behaviour for decorating a map iterator with extra functionality.  
  All methods are forwarded to the decorated map iterator.Since: 3.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [AbstractMapIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html#AbstractMapIteratorDecorator-org.apache.commons.collections4.MapIterator-)([MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> iterator) Constructor that decorates the specified iterator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

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

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### 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-)

### Constructor Detail

#### AbstractMapIteratorDecorator public AbstractMapIteratorDecorator([MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> iterator) Constructor that decorates the specified iterator.Parameters: iterator - the iterator to decorate, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the iterator is null

### Method Detail

#### getMapIterator protected [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> getMapIterator() Gets the iterator being decorated.Returns: the decorated iterator

#### hasNext public 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/iterators/AbstractMapIteratorDecorator.html)> Specified by: [hasNext](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#hasNext--) in interface [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> Returns: true if the iterator has more elements

#### next public [K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.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/iterators/AbstractMapIteratorDecorator.html)> Specified by: [next](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#next--) in interface [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> Returns: the next key in the iteration

#### remove public 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/iterators/AbstractMapIteratorDecorator.html)> Specified by: [remove](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#remove--) in interface [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)>

#### getKey public [K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html) getKey() Gets the current key, which is the key returned by the last call to next().Specified by: [getKey](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#getKey--) in interface [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> Returns: the current key

#### getValue public [V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html) getValue() Gets the current value, which is the value associated with the last key returned by next().Specified by: [getValue](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#getValue--) in interface [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> Returns: the current value

#### setValue public [V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html) setValue([V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html) obj) Sets the value associated with the current key (optional operation).Specified by: [setValue](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#setValue-V-) in interface [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)> Parameters: obj - the new value Returns: the previous value

[Skip navigation links](#1y810tw)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/AbstractMapIteratorDecorator.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/iterators/AbstractListIteratorDecorator.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractOrderedMapIteratorDecorator.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/iterators/AbstractMapIteratorDecorator.html)
* [No Frames](http://docs.google.com/AbstractMapIteratorDecorator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#1t3h5sf) |
* [Method](#2s8eyo1)

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