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org.apache.commons.collections4.iterators

## Class EntrySetMapIterator<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.EntrySetMapIterator<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>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<K>  
    
  public class EntrySetMapIterator<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>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<K>  
  Implements a MapIterator using a Map entrySet. Reverse iteration is not supported.  
   MapIterator it = map.mapIterator();  
   while (it.hasNext()) {  
   Object key = it.next();  
   Object value = it.getValue();  
   it.setValue(newValue);  
   }  
   Since: 3.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [EntrySetMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html#EntrySetMapIterator-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)> map) Constructor. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html) | * + [getKey](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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/iterators/EntrySetMapIterator.html) | * + [getValue](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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/EntrySetMapIterator.html#hasNext--)() Checks to see if there are more entries still to be iterated. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html#next--)() Gets the next *key* from the Map. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html#remove--)() Removes the last returned key from the underlying Map. |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html#reset--)() Resets the state of the iterator. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html) | * + [setValue](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html#setValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html) value) Sets the value associated with the current key. |
| * + [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) | * + [toString](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html#toString--)() Gets the iterator as a String. |

### 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--), [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

#### EntrySetMapIterator public EntrySetMapIterator([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)> map) Constructor.Parameters: map - the map to iterate over

### Method Detail

#### 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/EntrySetMapIterator.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/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)> Returns: true if the iterator has more elements

#### next public [K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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/EntrySetMapIterator.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/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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

#### remove public void remove() Removes the last returned key from the underlying Map. 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/EntrySetMapIterator.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/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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()

#### getKey public [K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)> 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 public [V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.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/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)> 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

#### setValue public [V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html) setValue([V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html) value) Sets the value associated with the current key.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/EntrySetMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)> 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()

#### reset public void reset() Resets the state of the iterator.Specified by: [reset](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html#reset--) in interface [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/EntrySetMapIterator.html)>

#### toString public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) toString() Gets the iterator as a String.Overrides: [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: a string version of the iterator

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