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org.apache.commons.collections4.iterators

## Class EmptyMapIterator<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.AbstractEmptyMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractEmptyMapIterator.html)<K,V>
    - org.apache.commons.collections4.iterators.EmptyMapIterator<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 EmptyMapIterator<K,V>  
  extends [AbstractEmptyMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractEmptyMapIterator.html)<K,V>  
  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>  
  Provides an implementation of an empty map iterator.Since: 3.1

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) | * + [INSTANCE](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#INSTANCE) Singleton instance of the iterator. |

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [EmptyMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#EmptyMapIterator--)() Constructor. |

### Method SummaryAll Methods Static Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#add-E-)(E obj) |
| * + static <K,V> [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V> | * + [emptyMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#emptyMapIterator--)() Get a typed instance of the iterator. |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#hasNext--)() |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#hasPrevious--)() |
| * + E | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#next--)() |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#nextIndex--)() |
| * + E | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#previous--)() |
| * + int | * + [previousIndex](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#previousIndex--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#remove--)() |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#reset--)() |
| * + void | * + [set](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyMapIterator.html#set-E-)(E obj) |

### Methods inherited from class org.apache.commons.collections4.iterators.[**AbstractEmptyMapIterator**](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractEmptyMapIterator.html)[getKey](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractEmptyMapIterator.html#getKey--), [getValue](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractEmptyMapIterator.html#getValue--), [setValue](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractEmptyMapIterator.html#setValue-V-)

### 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 org.apache.commons.collections4.[**MapIterator**](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)[getKey](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#getKey--), [getValue](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#getValue--), [hasNext](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#hasNext--), [next](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#next--), [remove](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#remove--), [setValue](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#setValue-V-)

### Methods inherited from interface org.apache.commons.collections4.[**ResettableIterator**](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)[reset](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html#reset--)

### 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-)

### Field Detail

#### INSTANCE public static final [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html) INSTANCE Singleton instance of the iterator.Since: 3.1

### Constructor Detail

#### EmptyMapIterator protected EmptyMapIterator() Constructor.

### Method Detail

#### emptyMapIterator public static <K,V> [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K,V> emptyMapIterator() Get a typed instance of the iterator.Type Parameters: K - the key type V - the value type Returns: [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html)<K, V>

#### hasNext public boolean hasNext()

#### next public E next()

#### hasPrevious public boolean hasPrevious()

#### previous public E previous()

#### nextIndex public int nextIndex()

#### previousIndex public int previousIndex()

#### add public void add(E obj)

#### set public void set(E obj)

#### remove public void remove()

#### reset public void reset()

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