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org.apache.commons.collections4.iterators

## Class UnmodifiableOrderedMapIterator<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.UnmodifiableOrderedMapIterator<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>, [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<K>, [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V>, [Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html)  
    
  public final class UnmodifiableOrderedMapIterator<K,V>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V>, [Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html)  
  Decorates an ordered map iterator such that it cannot be modified.  
  Attempts to modify it will result in an UnsupportedOperationException.Since: 3.0

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) | * + [getKey](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.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/UnmodifiableOrderedMapIterator.html) | * + [getValue](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.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/UnmodifiableOrderedMapIterator.html#hasNext--)() Checks to see if there are more entries still to be iterated. |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html#hasPrevious--)() Checks to see if there is a previous entry that can be iterated to. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html#next--)() Gets the next *key* from the Map. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html#previous--)() Gets the previous *key* from the Map. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html#remove--)() Removes the last returned key from the underlying Map (optional operation). |
| * + [V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) | * + [setValue](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html#setValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) value) Sets the value associated with the current key (optional operation). |
| * + static <K,V> [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V> | * + [unmodifiableOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html#unmodifiableOrderedMapIterator-org.apache.commons.collections4.OrderedMapIterator-)([OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,? extends V> iterator) Decorates the specified iterator such that it cannot be modified. |

### 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-)

### Method Detail

#### unmodifiableOrderedMapIterator public static <K,V> [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V> unmodifiableOrderedMapIterator([OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,? extends V> iterator) Decorates the specified iterator such that it cannot be modified.Type Parameters: K - the key type V - the value type Parameters: iterator - the iterator to decorate Returns: a new unmodifiable ordered map iterator Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the iterator is null

#### hasNext public boolean hasNext() Description copied from interface: [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#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/UnmodifiableOrderedMapIterator.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/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Returns: true if the iterator has more elements

#### next public [K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) next() Description copied from interface: [MapIterator](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/iterators/UnmodifiableOrderedMapIterator.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/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Returns: the next key in the iteration

#### hasPrevious public boolean hasPrevious() Description copied from interface: [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html#hasPrevious--) Checks to see if there is a previous entry that can be iterated to.Specified by: [hasPrevious](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#hasPrevious--) in interface [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Specified by: [hasPrevious](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html#hasPrevious--) in interface [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Returns: true if the iterator has a previous element

#### previous public [K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) previous() Description copied from interface: [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html#previous--) Gets the previous *key* from the Map.Specified by: [previous](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#previous--) in interface [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Specified by: [previous](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html#previous--) in interface [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Returns: the previous key in the iteration

#### getKey public [K](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) getKey() Description copied from interface: [MapIterator](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().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/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Returns: the current key

#### getValue public [V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) getValue() Description copied from interface: [MapIterator](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().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/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Returns: the current value

#### setValue public [V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) setValue([V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html) value) Description copied from interface: [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#setValue-V-) 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/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)> Parameters: value - the new value Returns: the previous value

#### remove public void remove() Description copied from interface: [MapIterator](http://docs.google.com/org/apache/commons/collections4/MapIterator.html#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/UnmodifiableOrderedMapIterator.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/UnmodifiableOrderedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)>

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