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org.apache.commons.collections4.map

## Class AbstractSortedMapDecorator.SortedMapIterator<K,V>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.map.EntrySetToMapIteratorAdapter](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html)<K,V>
    - org.apache.commons.collections4.map.AbstractSortedMapDecorator.SortedMapIterator<K,V>
* Type Parameters: K - the key type V - the value type 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>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<K> Enclosing class: [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)>  
    
  protected static class AbstractSortedMapDecorator.SortedMapIterator<K,V>  
  extends [EntrySetToMapIteratorAdapter](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html)<K,V>  
  implements [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V>  
  OrderedMapIterator implementation.

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [SortedMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html#SortedMapIterator-java.util.Set-)([Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)>> entrySet) Create a new AbstractSortedMapDecorator.SortedMapIterator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.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/map/AbstractSortedMapDecorator.SortedMapIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html#previous--)() Gets the previous *key* from the Map. |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html#reset--)() Resets the iterator back to the position at which the iterator was created. |

### Methods inherited from class org.apache.commons.collections4.map.[**EntrySetToMapIteratorAdapter**](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html)[current](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#current--), [getKey](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#getKey--), [getValue](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#getValue--), [hasNext](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#hasNext--), [next](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#next--), [remove](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#remove--), [setValue](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.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 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

#### SortedMapIterator protected SortedMapIterator([Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)>> entrySet) Create a new AbstractSortedMapDecorator.SortedMapIterator.Parameters: entrySet - the entrySet to iterate

### Method Detail

#### reset public void reset() Resets the iterator back to the position at which the iterator was created.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/map/AbstractSortedMapDecorator.SortedMapIterator.html)> Overrides: [reset](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html#reset--) in class [EntrySetToMapIteratorAdapter](http://docs.google.com/org/apache/commons/collections4/map/EntrySetToMapIteratorAdapter.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)>

#### hasPrevious public boolean 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/map/AbstractSortedMapDecorator.SortedMapIterator.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/map/AbstractSortedMapDecorator.SortedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)> Returns: true if the iterator has a previous element

#### previous public [K](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.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/map/AbstractSortedMapDecorator.SortedMapIterator.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/map/AbstractSortedMapDecorator.SortedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)> Returns: the previous key in the iteration

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