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org.apache.commons.collections4.map

## Class SingletonMap<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.SingletonMap<K,V>
* Type Parameters: K - the type of the keys in this map V - the type of the values in this map All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true), [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>, [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,V>, [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,V>, [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>, [KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<K,V>, [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>, [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V>  
    
  public class SingletonMap<K,V>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>, [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, [KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<K,V>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Cloneable](https://docs.oracle.com/javase/7/docs/api/java/lang/Cloneable.html?is-external=true)
* A Map implementation that holds a single item and is fixed size.  
  The single key/value pair is specified at creation. The map is fixed size so any action that would change the size is disallowed. However, the put or setValue methods can *change* the value associated with the key.  
  If trying to remove or clear the map, an UnsupportedOperationException is thrown. If trying to put a new mapping into the map, an IllegalArgumentException is thrown. The put method will only succeed if the key specified is the same as the singleton key.  
  The key and value can be obtained by:
  + normal Map methods and views
  + the MapIterator, see [mapIterator()](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#mapIterator--)
  + the KeyValue interface (just cast - no object creation)

Since: 3.1 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.map.SingletonMap)

### Nested Class Summary

### Nested classes/interfaces inherited from interface java.util.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true),[V](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)>

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#SingletonMap--)() Constructor that creates a map of null to null. |
| * + [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#SingletonMap-org.apache.commons.collections4.KeyValue-)([KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> keyValue) Constructor specifying the key and value as a KeyValue. |
| * + [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#SingletonMap-K-V-)([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) value) Constructor specifying the key and value. |
| * + [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#SingletonMap-java.util.Map.Entry-)([Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> mapEntry) Constructor specifying the key and value as a MapEntry. |
| * + [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#SingletonMap-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> map) Constructor copying elements from another map. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [clear](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#clear--)() Unsupported operation. |
| * + [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> | * + [clone](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#clone--)() Clones the map without cloning the key or value. |
| * + boolean | * + [containsKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#containsKey-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Checks whether the map contains the specified key. |
| * + boolean | * + [containsValue](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#containsValue-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Checks whether the map contains the specified value. |
| * + [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/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)>> | * + [entrySet](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#entrySet--)() Gets the entrySet view of the map. |
| * + boolean | * + [equals](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Compares this map with another. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [firstKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#firstKey--)() Gets the first (and only) key in the map. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [get](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#get-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Gets the value mapped to the key specified. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [getKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#getKey--)() Gets the key. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [getValue](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#getValue--)() Gets the value. |
| * + int | * + [hashCode](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#hashCode--)() Gets the standard Map hashCode. |
| * + boolean | * + [isEmpty](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#isEmpty--)() Checks whether the map is currently empty, which it never is. |
| * + protected boolean | * + [isEqualKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#isEqualKey-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Compares the specified key to the stored key. |
| * + protected boolean | * + [isEqualValue](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#isEqualValue-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Compares the specified value to the stored value. |
| * + boolean | * + [isFull](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#isFull--)() Is the map currently full, always true. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> | * + [keySet](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#keySet--)() Gets the unmodifiable keySet view of the map. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [lastKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#lastKey--)() Gets the last (and only) key in the map. |
| * + [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> | * + [mapIterator](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#mapIterator--)() Obtains an OrderedMapIterator over the map. |
| * + int | * + [maxSize](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#maxSize--)() Gets the maximum size of the map, always 1. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [nextKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#nextKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key) Gets the next key after the key specified, always null. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [previousKey](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#previousKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key) Gets the previous key before the key specified, always null. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [put](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#put-K-V-)([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) value) Puts a key-value mapping into this map where the key must match the existing key. |
| * + void | * + [putAll](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#putAll-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> map) Puts the values from the specified map into this map. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [remove](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#remove-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Unsupported operation. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) | * + [setValue](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#setValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) value) Sets the value. |
| * + int | * + [size](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#size--)() Gets the size of the map, always 1. |
| * + [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/map/SingletonMap.html#toString--)() Gets the map as a String. |
| * + [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> | * + [values](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#values--)() Gets the unmodifiable values view of the map. |

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[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--), [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.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[compute](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#compute-K-java.util.function.BiFunction-), [computeIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfAbsent-K-java.util.function.Function-), [computeIfPresent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfPresent-K-java.util.function.BiFunction-), [forEach](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#forEach-java.util.function.BiConsumer-), [getOrDefault](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#getOrDefault-java.lang.Object-V-), [merge](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#merge-K-V-java.util.function.BiFunction-), [putIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putIfAbsent-K-V-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-java.lang.Object-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-V-), [replaceAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replaceAll-java.util.function.BiFunction-)

### Constructor Detail

#### SingletonMap public SingletonMap() Constructor that creates a map of null to null.

#### SingletonMap public SingletonMap([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) value) Constructor specifying the key and value.Parameters: key - the key to use value - the value to use

#### SingletonMap public SingletonMap([KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> keyValue) Constructor specifying the key and value as a KeyValue.Parameters: keyValue - the key value pair to use

#### SingletonMap public SingletonMap([Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> mapEntry) Constructor specifying the key and value as a MapEntry.Parameters: mapEntry - the mapEntry to use

#### SingletonMap public SingletonMap([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> map) Constructor copying elements from another map.Parameters: map - the map to copy, must be size 1 Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the map is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the size is not 1

### Method Detail

#### getKey public [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) getKey() Gets the key.Specified by: [getKey](http://docs.google.com/org/apache/commons/collections4/KeyValue.html#getKey--) in interface [KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the key

#### getValue public [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) getValue() Gets the value.Specified by: [getValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html#getValue--) in interface [KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the value

#### setValue public [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) setValue([V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) value) Sets the value.Parameters: value - the new value to set Returns: the old value

#### isFull public boolean isFull() Is the map currently full, always true.Specified by: [isFull](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html#isFull--) in interface [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: true always

#### maxSize public int maxSize() Gets the maximum size of the map, always 1.Specified by: [maxSize](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html#maxSize--) in interface [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: 1 always

#### get public [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) get([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Gets the value mapped to the key specified.Specified by: [get](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#get-java.lang.Object-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [get](http://docs.google.com/org/apache/commons/collections4/Get.html#get-java.lang.Object-) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: key - the key Returns: the mapped value, null if no match See Also: [Map.get(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#get-java.lang.Object-)

#### size public int size() Gets the size of the map, always 1.Specified by: [size](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#size--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [size](http://docs.google.com/org/apache/commons/collections4/Get.html#size--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the size of 1 See Also: [Map.size()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#size--)

#### isEmpty public boolean isEmpty() Checks whether the map is currently empty, which it never is.Specified by: [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#isEmpty--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [isEmpty](http://docs.google.com/org/apache/commons/collections4/Get.html#isEmpty--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: false always See Also: [Map.isEmpty()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#isEmpty--)

#### containsKey public boolean containsKey([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Checks whether the map contains the specified key.Specified by: [containsKey](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsKey-java.lang.Object-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [containsKey](http://docs.google.com/org/apache/commons/collections4/Get.html#containsKey-java.lang.Object-) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: key - the key to search for Returns: true if the map contains the key See Also: [Map.containsKey(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsKey-java.lang.Object-)

#### containsValue public boolean containsValue([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Checks whether the map contains the specified value.Specified by: [containsValue](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [containsValue](http://docs.google.com/org/apache/commons/collections4/Get.html#containsValue-java.lang.Object-) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: value - the value to search for Returns: true if the map contains the key See Also: [Map.containsValue(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-)

#### put public [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) put([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) value) Puts a key-value mapping into this map where the key must match the existing key. An IllegalArgumentException is thrown if the key does not match as the map is fixed size.Specified by: [put](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [put](http://docs.google.com/org/apache/commons/collections4/Put.html#put-K-V-) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: key - the key to set, must be the key of the map value - the value to set Returns: the value previously mapped to this key, null if none Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the key does not match See Also: [Map.put(Object, Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-)

#### putAll public void putAll([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> map) Puts the values from the specified map into this map. The map must be of size 0 or size 1. If it is size 1, the key must match the key of this map otherwise an IllegalArgumentException is thrown.Specified by: [putAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [putAll](http://docs.google.com/org/apache/commons/collections4/Put.html#putAll-java.util.Map-) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: map - the map to add, must be size 0 or 1, and the key must match Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the map is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the key does not match See Also: [Map.putAll(Map)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-)

#### remove public [V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) remove([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Unsupported operation.Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [remove](http://docs.google.com/org/apache/commons/collections4/Get.html#remove-java.lang.Object-) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: key - the mapping to remove Returns: the value mapped to the removed key, null if key not in map Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - always See Also: [Map.remove(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-)

#### clear public void clear() Unsupported operation.Specified by: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [clear](http://docs.google.com/org/apache/commons/collections4/Put.html#clear--) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> See Also: [Map.clear()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--)

#### entrySet public [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/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)>> entrySet() Gets the entrySet view of the map. Changes made via setValue affect this map. To simply iterate through the entries, use [mapIterator()](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#mapIterator--).Specified by: [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [entrySet](http://docs.google.com/org/apache/commons/collections4/Get.html#entrySet--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the entrySet view See Also: [Map.entrySet()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--)

#### keySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> keySet() Gets the unmodifiable keySet view of the map. Changes made to the view affect this map. To simply iterate through the keys, use [mapIterator()](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#mapIterator--).Specified by: [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [keySet](http://docs.google.com/org/apache/commons/collections4/Get.html#keySet--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the keySet view See Also: [Map.keySet()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--)

#### values public [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> values() Gets the unmodifiable values view of the map. Changes made to the view affect this map. To simply iterate through the values, use [mapIterator()](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html#mapIterator--).Specified by: [values](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [values](http://docs.google.com/org/apache/commons/collections4/Get.html#values--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the values view See Also: [Map.values()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--)

#### mapIterator public [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> mapIterator() Obtains an OrderedMapIterator over the map. A ordered map iterator is an efficient way of iterating over maps in both directions.Specified by: [mapIterator](http://docs.google.com/org/apache/commons/collections4/IterableGet.html#mapIterator--) in interface [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Specified by: [mapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#mapIterator--) in interface [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: a map iterator

#### firstKey public [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) firstKey() Gets the first (and only) key in the map.Specified by: [firstKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#firstKey--) in interface [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the key

#### lastKey public [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) lastKey() Gets the last (and only) key in the map.Specified by: [lastKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#lastKey--) in interface [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Returns: the key

#### nextKey public [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) nextKey([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key) Gets the next key after the key specified, always null.Specified by: [nextKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#nextKey-K-) in interface [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: key - the next key Returns: null always

#### previousKey public [K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) previousKey([K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html) key) Gets the previous key before the key specified, always null.Specified by: [previousKey](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html#previousKey-K-) in interface [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Parameters: key - the next key Returns: null always

#### isEqualKey protected boolean isEqualKey([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) Compares the specified key to the stored key.Parameters: key - the key to compare Returns: true if equal

#### isEqualValue protected boolean isEqualValue([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) value) Compares the specified value to the stored value.Parameters: value - the value to compare Returns: true if equal

#### clone public [SingletonMap](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> clone() Clones the map without cloning the key or value.Overrides: [clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: a shallow clone

#### equals public boolean equals([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Compares this map with another.Specified by: [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#equals-java.lang.Object-) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Overrides: [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Parameters: obj - the object to compare to Returns: true if equal

#### hashCode public int hashCode() Gets the standard Map hashCode.Specified by: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#hashCode--) in interface [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/map/SingletonMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/SingletonMap.html)> Overrides: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: the hash code defined in the Map interface

#### toString public [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) toString() Gets the map 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 map

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