JavaScript is disabled on your browser.

[Skip navigation links](#1fob9te)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* [Class](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)
* Use
* [Tree](http://docs.google.com/overview-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* Prev
* Next
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/map/class-use/AbstractHashedMap.html)
* [No Frames](http://docs.google.com/AbstractHashedMap.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)

Uses of Class

org.apache.commons.collections4.map.AbstractHashedMap

* Packages that use [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)

|  |  |
| --- | --- |
| * Package | * Description |
| * [org.apache.commons.collections4.map](#3znysh7) | * This package contains implementations of the [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true), [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html), [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) and [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true) interfaces. |

### Uses of [**AbstractHashedMap**](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html) in [**org.apache.commons.collections4.map**](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html)Subclasses of [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html) in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [AbstractLinkedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.html)<K,V> An abstract implementation of a hash-based map that links entries to create an ordered map and which provides numerous points for subclasses to override. |
| * + class | * + [AbstractReferenceMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractReferenceMap.html)<K,V> An abstract implementation of a hash-based map that allows the entries to be removed by the garbage collector. |
| * + class | * + [CaseInsensitiveMap](http://docs.google.com/org/apache/commons/collections4/map/CaseInsensitiveMap.html)<K,V> A case-insensitive Map. |
| * + class | * + [HashedMap](http://docs.google.com/org/apache/commons/collections4/map/HashedMap.html)<K,V> A Map implementation that is a general purpose alternative to HashMap. |
| * + class | * + [LinkedMap](http://docs.google.com/org/apache/commons/collections4/map/LinkedMap.html)<K,V> A Map implementation that maintains the order of the entries. |
| * + class | * + [LRUMap](http://docs.google.com/org/apache/commons/collections4/map/LRUMap.html)<K,V> A Map implementation with a fixed maximum size which removes the least recently used entry if an entry is added when full. |
| * + class | * + [ReferenceIdentityMap](http://docs.google.com/org/apache/commons/collections4/map/ReferenceIdentityMap.html)<K,V> A Map implementation that allows mappings to be removed by the garbage collector and matches keys and values based on == not equals(). |
| * + class | * + [ReferenceMap](http://docs.google.com/org/apache/commons/collections4/map/ReferenceMap.html)<K,V> A Map implementation that allows mappings to be removed by the garbage collector. |

* + Methods in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) that return [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)> | * + AbstractHashedMap.[clone](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html#clone--)() Clones the map without cloning the keys or values. |
| * + protected [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/Flat3Map.html),[V](http://docs.google.com/org/apache/commons/collections4/map/Flat3Map.html)> | * + Flat3Map.[createDelegateMap](http://docs.google.com/org/apache/commons/collections4/map/Flat3Map.html#createDelegateMap--)() Create an instance of the map used for storage when in delegation mode. |
| * + protected [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[MultiKey](http://docs.google.com/org/apache/commons/collections4/keyvalue/MultiKey.html)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html)>,[V](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html)> | * + MultiKeyMap.[decorated](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html#decorated--)() Gets the map being decorated. |

* + Methods in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) with parameters of type [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <K,V> [MultiKeyMap](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html)<K,V> | * + MultiKeyMap.[multiKeyMap](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html#multiKeyMap-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[MultiKey](http://docs.google.com/org/apache/commons/collections4/keyvalue/MultiKey.html)<? extends K>,V> map) Decorates the specified map to add the MultiKeyMap API and fast query. |

* + Constructors in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) with parameters of type [AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)

|  |
| --- |
| * + Constructor and Description |
| * + [EntrySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySet.html#EntrySet-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySet.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySet.html)> parent) |
| * + [EntrySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySetIterator.html#EntrySetIterator-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySetIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.EntrySetIterator.html)> parent) |
| * + [HashIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashIterator.html#HashIterator-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashIterator.html)> parent) |
| * + [HashMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashMapIterator.html#HashMapIterator-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.HashMapIterator.html)> parent) |
| * + [KeySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.KeySet.html#KeySet-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.KeySet.html),?> parent) |
| * + [KeySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.KeySetIterator.html#KeySetIterator-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.KeySetIterator.html),?> parent) |
| * + [MultiKeyMap](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html#MultiKeyMap-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<[MultiKey](http://docs.google.com/org/apache/commons/collections4/keyvalue/MultiKey.html)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html)>,[V](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html)> map) Constructor that decorates the specified map and is called from [MultiKeyMap.multiKeyMap(AbstractHashedMap)](http://docs.google.com/org/apache/commons/collections4/map/MultiKeyMap.html#multiKeyMap-org.apache.commons.collections4.map.AbstractHashedMap-). |
| * + [Values](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.Values.html#Values-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<?,[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.Values.html)> parent) |
| * + [ValuesIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.ValuesIterator.html#ValuesIterator-org.apache.commons.collections4.map.AbstractHashedMap-)([AbstractHashedMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)<?,[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.ValuesIterator.html)> parent) |

[Skip navigation links](#3dy6vkm)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* [Class](http://docs.google.com/org/apache/commons/collections4/map/AbstractHashedMap.html)
* Use
* [Tree](http://docs.google.com/overview-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* Prev
* Next
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/map/class-use/AbstractHashedMap.html)
* [No Frames](http://docs.google.com/AbstractHashedMap.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)

Copyright © 2001–2019 [The Apache Software Foundation](https://www.apache.org/). All rights reserved.