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org.apache.commons.collections4.bag

## Class HashBag<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.bag.AbstractMapBag](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html)<E>
    - org.apache.commons.collections4.bag.HashBag<E>
* Type Parameters: E - the type of elements in this bag All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E>, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>, [Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html)<E>  
    
  public class HashBag<E>  
  extends [AbstractMapBag](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html)<E>  
  implements [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Implements Bag, using a [HashMap](https://docs.oracle.com/javase/7/docs/api/java/util/HashMap.html?is-external=true) to provide the data storage. This is the standard implementation of a bag.  
  A Bag stores each object in the collection together with a count of occurrences. Extra methods on the interface allow multiple copies of an object to be added or removed at once. It is important to read the interface javadoc carefully as several methods violate the [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) interface specification.Since: 3.0 (previously in main package v2.0) See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.bag.HashBag)

### Nested Class Summary

### Nested classes/interfaces inherited from class org.apache.commons.collections4.bag.[**AbstractMapBag**](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html)[AbstractMapBag.MutableInteger](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.MutableInteger.html)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [HashBag](http://docs.google.com/org/apache/commons/collections4/bag/HashBag.html#HashBag--)() Constructs an empty [HashBag](http://docs.google.com/org/apache/commons/collections4/bag/HashBag.html). |
| * + [HashBag](http://docs.google.com/org/apache/commons/collections4/bag/HashBag.html#HashBag-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/bag/HashBag.html)> coll) Constructs a bag containing all the members of the given collection. |

### Method Summary

### Methods inherited from class org.apache.commons.collections4.bag.[**AbstractMapBag**](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html)[add](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#add-E-), [add](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#add-E-int-), [addAll](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#addAll-java.util.Collection-), [clear](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#clear--), [contains](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#contains-java.lang.Object-), [containsAll](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#containsAll-java.util.Collection-), [doReadObject](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#doReadObject-java.util.Map-java.io.ObjectInputStream-), [doWriteObject](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#doWriteObject-java.io.ObjectOutputStream-), [equals](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#equals-java.lang.Object-), [getCount](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#getCount-java.lang.Object-), [getMap](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#getMap--), [hashCode](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#hashCode--), [isEmpty](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#isEmpty--), [iterator](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#iterator--), [remove](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#remove-java.lang.Object-), [remove](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#remove-java.lang.Object-int-), [removeAll](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#removeAll-java.util.Collection-), [retainAll](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#retainAll-java.util.Collection-), [size](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#size--), [toArray](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#toArray--), [toArray](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#toArray-T:A-), [toString](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#toString--), [uniqueSet](http://docs.google.com/org/apache/commons/collections4/bag/AbstractMapBag.html#uniqueSet--)

### 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--), [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.[**Collection**](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)[parallelStream](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#parallelStream--), [removeIf](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#removeIf-java.util.function.Predicate-), [spliterator](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#spliterator--), [stream](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#stream--)

### Methods inherited from interface java.lang.[**Iterable**](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)[forEach](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true#forEach-java.util.function.Consumer-)

### Constructor Detail

#### HashBag public HashBag() Constructs an empty [HashBag](http://docs.google.com/org/apache/commons/collections4/bag/HashBag.html).

#### HashBag public HashBag([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/bag/HashBag.html)> coll) Constructs a bag containing all the members of the given collection.Parameters: coll - a collection to copy into this bag

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