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org.apache.commons.collections4.multiset

## Class SynchronizedMultiSet<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.collection.SynchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)<E>
    - org.apache.commons.collections4.multiset.SynchronizedMultiSet<E>
* Type Parameters: E - the type held in the multiset 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>, [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E>  
    
  public class SynchronizedMultiSet<E>  
  extends [SynchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)<E>  
  implements [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E>  
  Decorates another [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html) to synchronize its behaviour for a multi-threaded environment.  
  Methods are synchronized, then forwarded to the decorated multiset. Iterators must be separately synchronized around the loop.Since: 4.1 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.multiset.SynchronizedMultiSet)

### Nested Class Summary

### Nested classes/interfaces inherited from interface org.apache.commons.collections4.[**MultiSet**](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)[MultiSet.Entry](http://docs.google.com/org/apache/commons/collections4/MultiSet.Entry.html)<[E](http://docs.google.com/org/apache/commons/collections4/MultiSet.Entry.html)>

### Field Summary

### Fields inherited from class org.apache.commons.collections4.collection.[**SynchronizedCollection**](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)[lock](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#lock)

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [SynchronizedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#SynchronizedMultiSet-org.apache.commons.collections4.MultiSet-)([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> multiset) Constructor that wraps (not copies). |
| * + protected | * + [SynchronizedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#SynchronizedMultiSet-org.apache.commons.collections4.MultiSet-java.lang.Object-)([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> multiset, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) lock) Constructor that wraps (not copies). |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + int | * + [add](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#add-E-int-)([E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html) object, int count) Adds a number of occurrences of the specified object to the MultiSet. |
| * + protected [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> | * + [decorated](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#decorated--)() Gets the multiset being decorated. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[MultiSet.Entry](http://docs.google.com/org/apache/commons/collections4/MultiSet.Entry.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)>> | * + [entrySet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#entrySet--)() Returns a [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true) of all entries contained in the MultiSet. |
| * + boolean | * + [equals](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Compares this MultiSet to another object. |
| * + int | * + [getCount](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#getCount-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Returns the number of occurrences of the given object currently in the MultiSet. |
| * + int | * + [hashCode](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#hashCode--)() Gets a hash code for the MultiSet compatible with the definition of equals. |
| * + int | * + [remove](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#remove-java.lang.Object-int-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, int count) Removes a number of occurrences of the specified object from the MultiSet. |
| * + int | * + [setCount](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#setCount-E-int-)([E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html) object, int count) Sets the number of occurrences of the specified object in the MultiSet to the given count. |
| * + static <E> [SynchronizedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)<E> | * + [synchronizedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#synchronizedMultiSet-org.apache.commons.collections4.MultiSet-)([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E> multiset) Factory method to create a synchronized multiset. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> | * + [uniqueSet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html#uniqueSet--)() Returns a [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true) of unique elements in the MultiSet. |

### Methods inherited from class org.apache.commons.collections4.collection.[**SynchronizedCollection**](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)[add](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#add-E-), [addAll](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#addAll-java.util.Collection-), [clear](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#clear--), [contains](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#contains-java.lang.Object-), [containsAll](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#containsAll-java.util.Collection-), [isEmpty](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#isEmpty--), [iterator](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#iterator--), [remove](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#remove-java.lang.Object-), [removeAll](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#removeAll-java.util.Collection-), [removeIf](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#removeIf-java.util.function.Predicate-), [retainAll](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#retainAll-java.util.Collection-), [size](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#size--), [synchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#synchronizedCollection-java.util.Collection-), [toArray](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#toArray--), [toArray](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#toArray-T:A-), [toString](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#toString--)

### 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 org.apache.commons.collections4.[**MultiSet**](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)[add](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#add-E-), [containsAll](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#containsAll-java.util.Collection-), [iterator](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#iterator--), [remove](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#remove-java.lang.Object-), [removeAll](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#removeAll-java.util.Collection-), [retainAll](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#retainAll-java.util.Collection-), [size](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#size--)

### Methods inherited from interface java.util.[**Collection**](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)[addAll](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#addAll-java.util.Collection-), [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#clear--), [contains](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#contains-java.lang.Object-), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#isEmpty--), [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--), [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#toArray--), [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#toArray-T:A-)

### 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

#### SynchronizedMultiSet protected SynchronizedMultiSet([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> multiset) Constructor that wraps (not copies).Parameters: multiset - the multiset to decorate, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if multiset is null

#### SynchronizedMultiSet protected SynchronizedMultiSet([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> multiset, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) lock) Constructor that wraps (not copies).Parameters: multiset - the multiset to decorate, must not be null lock - the lock to use, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if multiset or lock is null

### Method Detail

#### synchronizedMultiSet public static <E> [SynchronizedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)<E> synchronizedMultiSet([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E> multiset) Factory method to create a synchronized multiset.Type Parameters: E - the type of the elements in the multiset Parameters: multiset - the multiset to decorate, must not be null Returns: a new synchronized MultiSet Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if multiset is null

#### decorated protected [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> decorated() Gets the multiset being decorated.Overrides: [decorated](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#decorated--) in class [SynchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Returns: the decorated multiset

#### equals public boolean equals([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#equals-java.lang.Object-) Compares this MultiSet to another object. This MultiSet equals another object if it is also a MultiSet that contains the same number of occurrences of the same elements.Specified by: [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#equals-java.lang.Object-) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Specified by: [equals](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#equals-java.lang.Object-) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Overrides: [equals](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#equals-java.lang.Object-) in class [SynchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Parameters: object - the object to compare to Returns: true if equal

#### hashCode public int hashCode() Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#hashCode--) Gets a hash code for the MultiSet compatible with the definition of equals. The hash code is defined as the sum total of a hash code for each element. The per element hash code is defined as (e==null ? 0 : e.hashCode()) ^ noOccurances).Specified by: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#hashCode--) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Specified by: [hashCode](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#hashCode--) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Overrides: [hashCode](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html#hashCode--) in class [SynchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Returns: the hash code of the MultiSet

#### add public int add([E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html) object, int count) Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#add-E-int-) Adds a number of occurrences of the specified object to the MultiSet. If the object is already in the [MultiSet.uniqueSet()](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#uniqueSet--) then increment its count as reported by [MultiSet.getCount(Object)](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#getCount-java.lang.Object-). Otherwise add it to the [MultiSet.uniqueSet()](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#uniqueSet--) and report its count as occurrences.Specified by: [add](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#add-E-int-) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Parameters: object - the object to add count - the number of occurrences to add, may be zero, in which case no change is made to the multiset Returns: the number of occurrences of the object in the multiset before this operation; possibly zero

#### remove public int remove([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, int count) Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#remove-java.lang.Object-int-) Removes a number of occurrences of the specified object from the MultiSet. If the number of occurrences to remove is greater than the actual number of occurrences in the multiset, the object will be removed from the multiset.Specified by: [remove](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#remove-java.lang.Object-int-) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Parameters: object - the object to remove count - the number of occurrences to remove, may be zero, in which case no change is made to the multiset Returns: the number of occurrences of the object in the multiset before the operation; possibly zero

#### getCount public int getCount([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#getCount-java.lang.Object-) Returns the number of occurrences of the given object currently in the MultiSet. If the object does not exist in the multiset, return 0.Specified by: [getCount](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#getCount-java.lang.Object-) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Parameters: object - the object to search for Returns: the number of occurrences of the object, zero if not found

#### setCount public int setCount([E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html) object, int count) Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#setCount-E-int-) Sets the number of occurrences of the specified object in the MultiSet to the given count. If the provided count is zero, the object will be removed from the [MultiSet.uniqueSet()](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#uniqueSet--).Specified by: [setCount](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#setCount-E-int-) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Parameters: object - the object to update count - the number of occurrences of the object Returns: the number of occurrences of the object before this operation, zero if the object was not contained in the multiset

#### uniqueSet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> uniqueSet() Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#uniqueSet--) Returns a [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true) of unique elements in the MultiSet. Uniqueness constraints are the same as those in [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true). The returned set is backed by this multiset, so any change to either is immediately reflected in the other. Only removal operations are supported, in which case all occurrences of the element are removed from the backing multiset.Specified by: [uniqueSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#uniqueSet--) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Returns: the Set of unique MultiSet elements

#### entrySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[MultiSet.Entry](http://docs.google.com/org/apache/commons/collections4/MultiSet.Entry.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)>> entrySet() Description copied from interface: [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#entrySet--) Returns a [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true) of all entries contained in the MultiSet. The returned set is backed by this multiset, so any change to either is immediately reflected in the other.Specified by: [entrySet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html#entrySet--) in interface [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/SynchronizedMultiSet.html)> Returns: the Set of MultiSet entries

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* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
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