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org.apache.commons.collections4.iterators

## Class IteratorIterable<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.IteratorIterable<E>
* All Implemented Interfaces: [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E>  
    
  public class IteratorIterable<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E>  
  Adapter to make an [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) instance appear to be an [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true) instance. The iterable can be constructed in one of two variants: single use, multiple use.  
  In the single use iterable case, the iterable is only usable for one iterative operation over the source iterator. Subsequent iterative operations use the same, exhausted source iterator. To create a single use iterable, construct a new [IteratorIterable](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html) using a [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) that is NOT a [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html) iterator:  
   Iterator<Integer> iterator = // some non-resettable iterator  
   Iterable<Integer> iterable = new IteratorIterable<Integer>(iterator);  
     
  In the multiple use iterable case, the iterable is usable for any number of iterative operations over the source iterator. Of special note, even though the iterable supports multiple iterations, it does not support concurrent iterations. To implicitly create a multiple use iterable, construct a new [IteratorIterable](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html) using a [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html) iterator:  
   Integer[] array = {Integer.valueOf(1),Integer.valueOf(2),Integer.valueOf(3)};  
   Iterator<Integer> iterator = IteratorUtils.arrayIterator(array); // a resettable iterator  
   Iterable<Integer> iterable = new IteratorIterable<Integer>(iterator);  
     
  A multiple use iterable can also be explicitly constructed using any [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) and specifying true for the multipleUse flag:  
   Iterator<Integer> iterator = // some non-resettable iterator  
   Iterable<Integer> iterable = new IteratorIterable<Integer>(iterator, true);  
   Since: 4.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [IteratorIterable](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html#IteratorIterable-java.util.Iterator-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> iterator) Constructs a new IteratorIterable that will use the given iterator. |
| * + [IteratorIterable](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html#IteratorIterable-java.util.Iterator-boolean-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> iterator, boolean multipleUse) Constructs a new IteratorIterable that will use the given iterator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> | * + [iterator](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html#iterator--)() Gets the iterator wrapped by this iterable. |

### 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 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-), [spliterator](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true#spliterator--)

### Constructor Detail

#### IteratorIterable public IteratorIterable([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> iterator) Constructs a new IteratorIterable that will use the given iterator.Parameters: iterator - the iterator to use.

#### IteratorIterable public IteratorIterable([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> iterator, boolean multipleUse) Constructs a new IteratorIterable that will use the given iterator.Parameters: iterator - the iterator to use. multipleUse - true if the new iterable can be used in multiple iterations

### Method Detail

#### iterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> iterator() Gets the iterator wrapped by this iterable.Specified by: [iterator](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true#iterator--) in interface [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/IteratorIterable.html)> Returns: the iterator

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