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org.apache.commons.collections4.iterators

## Class EmptyIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.EmptyIterator<E>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>  
    
  public class EmptyIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>  
  Provides an implementation of an empty iterator.  
  This class provides an implementation of an empty iterator. This class provides for binary compatibility between Commons Collections 2.1.1 and 3.1 due to issues with IteratorUtils.Since: 2.1.1 and 3.1

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) | * + [INSTANCE](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#INSTANCE) Singleton instance of the iterator. |
| * + static [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html) | * + [RESETTABLE\_INSTANCE](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#RESETTABLE_INSTANCE) Singleton instance of the iterator. |

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [EmptyIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#EmptyIterator--)() Constructor. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#add-E-)(E obj) |
| * + static <E> [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> | * + [emptyIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#emptyIterator--)() Get a typed empty iterator instance. |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#hasNext--)() |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#hasPrevious--)() |
| * + E | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#next--)() |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#nextIndex--)() |
| * + E | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#previous--)() |
| * + int | * + [previousIndex](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#previousIndex--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#remove--)() |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#reset--)() |
| * + static <E> [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E> | * + [resettableEmptyIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#resettableEmptyIterator--)() Get a typed resettable empty iterator instance. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyIterator.html#set-E-)(E obj) |

### 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 org.apache.commons.collections4.[**ResettableIterator**](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)[reset](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html#reset--)

### Methods inherited from interface java.util.[**Iterator**](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)[forEachRemaining](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#forEachRemaining-java.util.function.Consumer-), [hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#hasNext--), [next](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#next--), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#remove--)

### Field Detail

#### RESETTABLE\_INSTANCE public static final [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html) RESETTABLE\_INSTANCE Singleton instance of the iterator.Since: 3.1

#### INSTANCE public static final [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) INSTANCE Singleton instance of the iterator.Since: 2.1.1 and 3.1

### Constructor Detail

#### EmptyIterator protected EmptyIterator() Constructor.

### Method Detail

#### resettableEmptyIterator public static <E> [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E> resettableEmptyIterator() Get a typed resettable empty iterator instance.Type Parameters: E - the element type Returns: ResettableIterator<E>

#### emptyIterator public static <E> [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> emptyIterator() Get a typed empty iterator instance.Type Parameters: E - the element type Returns: Iterator<E>

#### hasNext public boolean hasNext()

#### next public E next()

#### hasPrevious public boolean hasPrevious()

#### previous public E previous()

#### nextIndex public int nextIndex()

#### previousIndex public int previousIndex()

#### add public void add(E obj)

#### set public void set(E obj)

#### remove public void remove()

#### reset public void reset()

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