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
* [Use](http://docs.google.com/class-use/SingletonListIterator.html)
* [Tree](http://docs.google.com/package-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 Class](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonIterator.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/iterators/SingletonListIterator.html)
* [No Frames](http://docs.google.com/SingletonListIterator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#1t3h5sf) |
* [Method](#17dp8vu)

org.apache.commons.collections4.iterators

## Class SingletonListIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.SingletonListIterator<E>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>, [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>, [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>, [ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E>  
    
  public class SingletonListIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E>  
  SingletonIterator is an [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true) over a single object instance.Since: 2.1

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [SingletonListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#SingletonListIterator-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) object) Constructs a new SingletonListIterator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#add-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) obj) Add always throws [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true). |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#hasNext--)() Is another object available from the iterator? |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#hasPrevious--)() Is a previous object available from the iterator? |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#next--)() Get the next object from the iterator. |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#nextIndex--)() Returns the index of the element that would be returned by a subsequent call to next. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#previous--)() Get the previous object from the iterator. |
| * + int | * + [previousIndex](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#previousIndex--)() Returns the index of the element that would be returned by a subsequent call to previous. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#remove--)() Remove the object from this iterator. |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#reset--)() Reset the iterator back to the start. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html#set-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) obj) Set sets the value of the singleton. |

### 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.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-)

### Constructor Detail

#### SingletonListIterator public SingletonListIterator([E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) object) Constructs a new SingletonListIterator.Parameters: object - the single object to return from the iterator

### Method Detail

#### hasNext public boolean hasNext() Is another object available from the iterator? This returns true if the single object hasn't been returned yet.Specified by: [hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#hasNext--) in interface [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/SingletonListIterator.html)> Specified by: [hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#hasNext--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Returns: true if the single object hasn't been returned yet

#### hasPrevious public boolean hasPrevious() Is a previous object available from the iterator? This returns true if the single object has been returned.Specified by: [hasPrevious](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#hasPrevious--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Specified by: [hasPrevious](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#hasPrevious--) in interface [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Returns: true if the single object has been returned

#### nextIndex public int nextIndex() Returns the index of the element that would be returned by a subsequent call to next.Specified by: [nextIndex](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#nextIndex--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Returns: 0 or 1 depending on current state.

#### previousIndex public int previousIndex() Returns the index of the element that would be returned by a subsequent call to previous. A return value of -1 indicates that the iterator is currently at the start.Specified by: [previousIndex](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#previousIndex--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Returns: 0 or -1 depending on current state.

#### next public [E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) next() Get the next object from the iterator. This returns the single object if it hasn't been returned yet.Specified by: [next](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#next--) in interface [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/SingletonListIterator.html)> Specified by: [next](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#next--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Returns: the single object Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if the single object has already been returned

#### previous public [E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) previous() Get the previous object from the iterator. This returns the single object if it has been returned.Specified by: [previous](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#previous--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Specified by: [previous](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#previous--) in interface [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Returns: the single object Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if the single object has not already been returned

#### remove public void remove() Remove the object from this iterator.Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#remove--) in interface [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/SingletonListIterator.html)> Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#remove--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Throws: [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if the next or previous method has not yet been called, or the remove method has already been called after the last call to next or previous.

#### add public void add([E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) obj) Add always throws [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true).Specified by: [add](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#add-E-) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Parameters: obj - the object to add Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - always

#### set public void set([E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html) obj) Set sets the value of the singleton.Specified by: [set](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#set-E-) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)> Parameters: obj - the object to set Throws: [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if next has not been called or the object has been removed

#### reset public void reset() Reset the iterator back to the start.Specified by: [reset](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html#reset--) in interface [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html)>

[Skip navigation links](#2bn6wsx)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/SingletonListIterator.html)
* [Tree](http://docs.google.com/package-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 Class](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonIterator.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/iterators/SingletonListIterator.html)
* [No Frames](http://docs.google.com/SingletonListIterator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#1t3h5sf) |
* [Method](#17dp8vu)

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