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org.apache.commons.collections4.iterators

## Class FilterListIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.FilterListIterator<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>  
    
  public class FilterListIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>  
  Decorates another [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true) using a predicate to filter elements.  
  This iterator decorates the underlying iterator, only allowing through those elements that match the specified [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html).Since: 2.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [FilterListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#FilterListIterator--)() Constructs a new FilterListIterator that will not function until [setListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setListIterator-java.util.ListIterator-) and [setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setPredicate-org.apache.commons.collections4.Predicate-) are invoked. |
| * + [FilterListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#FilterListIterator-java.util.ListIterator-)([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> iterator) Constructs a new FilterListIterator that will not function until [setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setPredicate-org.apache.commons.collections4.Predicate-) is invoked. |
| * + [FilterListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#FilterListIterator-java.util.ListIterator-org.apache.commons.collections4.Predicate-)([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Constructs a new FilterListIterator. |
| * + [FilterListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#FilterListIterator-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Constructs a new FilterListIterator that will not function until [setListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setListIterator-java.util.ListIterator-) is invoked. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#add-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) o) Not supported. |
| * + [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> | * + [getListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#getListIterator--)() Gets the iterator this iterator is using. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> | * + [getPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#getPredicate--)() Gets the predicate this iterator is using. |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#hasNext--)() |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#hasPrevious--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#next--)() |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#nextIndex--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#previous--)() |
| * + int | * + [previousIndex](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#previousIndex--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#remove--)() Not supported. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#set-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) o) Not supported. |
| * + void | * + [setListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setListIterator-java.util.ListIterator-)([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> iterator) Sets the iterator for this iterator to use. |
| * + void | * + [setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Sets the predicate this the iterator to use. |

### 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

#### FilterListIterator public FilterListIterator() Constructs a new FilterListIterator that will not function until [setListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setListIterator-java.util.ListIterator-) and [setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setPredicate-org.apache.commons.collections4.Predicate-) are invoked.

#### FilterListIterator public FilterListIterator([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> iterator) Constructs a new FilterListIterator that will not function until [setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setPredicate-org.apache.commons.collections4.Predicate-) is invoked.Parameters: iterator - the iterator to use

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

#### FilterListIterator public FilterListIterator([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Constructs a new FilterListIterator that will not function until [setListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setListIterator-java.util.ListIterator-) is invoked.Parameters: predicate - the predicate to use.

### Method Detail

#### add public void add([E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) o) Not supported.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/FilterListIterator.html)> Parameters: o - the element to insert

#### hasNext public boolean hasNext()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/FilterListIterator.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/FilterListIterator.html)>

#### hasPrevious public boolean hasPrevious()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/FilterListIterator.html)>

#### next public [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) next()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/FilterListIterator.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/FilterListIterator.html)>

#### nextIndex public int nextIndex()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/FilterListIterator.html)>

#### previous public [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) previous()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/FilterListIterator.html)>

#### previousIndex public int previousIndex()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/FilterListIterator.html)>

#### remove public void remove() Not supported.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/FilterListIterator.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/FilterListIterator.html)>

#### set public void set([E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html) o) Not supported.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/FilterListIterator.html)> Parameters: o - the element with which to replace the last element returned by next or previous

#### getListIterator public [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> getListIterator() Gets the iterator this iterator is using.Returns: the iterator.

#### setListIterator public void setListIterator([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> iterator) Sets the iterator for this iterator to use. If iteration has started, this effectively resets the iterator.Parameters: iterator - the iterator to use

#### getPredicate public [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> getPredicate() Gets the predicate this iterator is using.Returns: the predicate.

#### setPredicate public void setPredicate([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Sets the predicate this the iterator to use.Parameters: predicate - the transformer to use

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