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org.apache.commons.collections4.iterators

## Class PushbackIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.PushbackIterator<E>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>  
    
  public class PushbackIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>  
  Decorates an iterator to support pushback of elements.  
  The decorator stores the pushed back elements in a LIFO manner: the last element that has been pushed back, will be returned as the next element in a call to [next()](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#next--).  
  The decorator does not support the removal operation. Any call to [remove()](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#remove--) will result in an [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true).Since: 4.0

### Constructor SummaryConstructors

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

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#hasNext--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#next--)() |
| * + void | * + [pushback](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#pushback-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html) item) Push back the given element to the iterator. |
| * + static <E> [PushbackIterator](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html)<E> | * + [pushbackIterator](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#pushbackIterator-java.util.Iterator-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends E> iterator) Decorates the specified iterator to support one-element lookahead. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#remove--)() This iterator will always throw an [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true). |

### 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

#### PushbackIterator public PushbackIterator([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/PushbackIterator.html)> iterator) Constructor.Parameters: iterator - the iterator to decorate

### Method Detail

#### pushbackIterator public static <E> [PushbackIterator](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html)<E> pushbackIterator([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends E> iterator) Decorates the specified iterator to support one-element lookahead. If the iterator is already a [PushbackIterator](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html) it is returned directly.Type Parameters: E - the element type Parameters: iterator - the iterator to decorate Returns: a new peeking iterator Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the iterator is null

#### pushback public void pushback([E](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html) item) Push back the given element to the iterator. Calling [next()](http://docs.google.com/org/apache/commons/collections4/iterators/PushbackIterator.html#next--) immediately afterwards will return exactly this element.Parameters: item - the element to push back to the iterator

#### 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/PushbackIterator.html)>

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

#### remove public void remove() This iterator will always throw an [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true).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/PushbackIterator.html)> Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - always

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