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org.apache.commons.collections4.iterators

## Class AbstractUntypedIteratorDecorator<I,O>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.AbstractUntypedIteratorDecorator<I,O>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<O> Direct Known Subclasses: [AbstractIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractIteratorDecorator.html)  
    
  public abstract class AbstractUntypedIteratorDecorator<I,O>  
  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)<O>  
  Provides basic behaviour for decorating an iterator with extra functionality without committing the generic type of the Iterator implementation.  
  All methods are forwarded to the decorated iterator.Since: 4.0

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [AbstractUntypedIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#AbstractUntypedIteratorDecorator-java.util.Iterator-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[I](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)> iterator) Create a new AbstractUntypedIteratorDecorator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[I](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)> | * + [getIterator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#getIterator--)() Gets the iterator being decorated. |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#hasNext--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#remove--)() |

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

### Constructor Detail

#### AbstractUntypedIteratorDecorator protected AbstractUntypedIteratorDecorator([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[I](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)> iterator) Create a new AbstractUntypedIteratorDecorator.Parameters: iterator - the iterator to decorate Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the iterator is null

### Method Detail

#### getIterator protected [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[I](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)> getIterator() Gets the iterator being decorated.Returns: the decorated 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)<[O](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)>

#### remove public void remove()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)<[O](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)>

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