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Package org.apache.commons.collections4.list

This package contains implementations of the [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true) interface.

See: [Description](#3znysh7)

* Class Summary

|  |  |
| --- | --- |
| * Class | * Description |
| * [AbstractLinkedList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.html)<E> | * An abstract implementation of a linked list which provides numerous points for subclasses to override. |
| * [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<E> | * A list iterator over the linked list. |
| * [AbstractLinkedList.LinkedSubList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)<E> | * The sublist implementation for AbstractLinkedList. |
| * [AbstractLinkedList.LinkedSubListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)<E> | * A list iterator over the linked sub list. |
| * [AbstractLinkedList.Node](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.Node.html)<E> | * A node within the linked list. |
| * [AbstractListDecorator](http://docs.google.com/org/apache/commons/collections4/list/AbstractListDecorator.html)<E> | * Decorates another [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true) to provide additional behaviour. |
| * [AbstractSerializableListDecorator](http://docs.google.com/org/apache/commons/collections4/list/AbstractSerializableListDecorator.html)<E> | * Serializable subclass of AbstractListDecorator. |
| * [CursorableLinkedList](http://docs.google.com/org/apache/commons/collections4/list/CursorableLinkedList.html)<E> | * A List implementation with a ListIterator that allows concurrent modifications to the underlying list. |
| * [CursorableLinkedList.Cursor](http://docs.google.com/org/apache/commons/collections4/list/CursorableLinkedList.Cursor.html)<E> | * An extended ListIterator that allows concurrent changes to the underlying list. |
| * [CursorableLinkedList.SubCursor](http://docs.google.com/org/apache/commons/collections4/list/CursorableLinkedList.SubCursor.html)<E> | * A cursor for the sublist based on LinkedSubListIterator. |
| * [FixedSizeList](http://docs.google.com/org/apache/commons/collections4/list/FixedSizeList.html)<E> | * Decorates another List to fix the size preventing add/remove. |
| * [GrowthList](http://docs.google.com/org/apache/commons/collections4/list/GrowthList.html)<E> | * Decorates another List to make it seamlessly grow when indices larger than the list size are used on add and set, avoiding most IndexOutOfBoundsExceptions. |
| * [LazyList](http://docs.google.com/org/apache/commons/collections4/list/LazyList.html)<E> | * Decorates another List to create objects in the list on demand. |
| * [NodeCachingLinkedList](http://docs.google.com/org/apache/commons/collections4/list/NodeCachingLinkedList.html)<E> | * A List implementation that stores a cache of internal Node objects in an effort to reduce wasteful object creation. |
| * [PredicatedList](http://docs.google.com/org/apache/commons/collections4/list/PredicatedList.html)<E> | * Decorates another List to validate that all additions match a specified predicate. |
| * [SetUniqueList](http://docs.google.com/org/apache/commons/collections4/list/SetUniqueList.html)<E> | * Decorates a List to ensure that no duplicates are present much like a Set. |
| * [TransformedList](http://docs.google.com/org/apache/commons/collections4/list/TransformedList.html)<E> | * Decorates another List to transform objects that are added. |
| * [TreeList](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)<E> | * A List implementation that is optimised for fast insertions and removals at any index in the list. |
| * [UnmodifiableList](http://docs.google.com/org/apache/commons/collections4/list/UnmodifiableList.html)<E> | * Decorates another List to ensure it can't be altered. |

## Package org.apache.commons.collections4.list Description

This package contains implementations of the [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true) interface.

The following implementations are provided in the package:

* TreeList - a list that is optimised for insertions and removals at any index in the list
* CursorableLinkedList - a list that can be modified while the listIterator (cursor) is being used
* NodeCachingLinkedList - a linked list that caches the storage nodes for a performance gain

The following decorators are provided in the package:

* Unmodifiable - ensures the collection cannot be altered
* Predicated - ensures that only elements that are valid according to a predicate can be added
* Transformed - transforms each element added
* FixedSize - ensures that the size of the list cannot change
* Lazy - creates objects in the list on demand
* Growth - grows the list instead of erroring when set/add used with index beyond the list size
* SetUnique - a list that avoids duplicate entries like a Set

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