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Package org.apache.commons.collections4.collection

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

See: [Description](#3znysh7)

* Interface Summary

|  |  |
| --- | --- |
| * Interface | * Description |
| * [CompositeCollection.CollectionMutator](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)<E> | * Pluggable strategy to handle changes to the composite. |

* Class Summary

|  |  |
| --- | --- |
| * Class | * Description |
| * [AbstractCollectionDecorator](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html)<E> | * Decorates another Collection to provide additional behaviour. |
| * [CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<E> | * Decorates a collection of other collections to provide a single unified view. |
| * [IndexedCollection](http://docs.google.com/org/apache/commons/collections4/collection/IndexedCollection.html)<K,C> | * An IndexedCollection is a Map-like view onto a Collection. |
| * [PredicatedCollection](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html)<E> | * Decorates another [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) to validate that additions match a specified predicate. |
| * [PredicatedCollection.Builder](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.Builder.html)<E> | * Builder for creating predicated collections. |
| * [SynchronizedCollection](http://docs.google.com/org/apache/commons/collections4/collection/SynchronizedCollection.html)<E> | * Decorates another [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) to synchronize its behaviour for a multi-threaded environment. |
| * [TransformedCollection](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html)<E> | * Decorates another [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) to transform objects that are added. |
| * [UnmodifiableBoundedCollection](http://docs.google.com/org/apache/commons/collections4/collection/UnmodifiableBoundedCollection.html)<E> | * [UnmodifiableBoundedCollection](http://docs.google.com/org/apache/commons/collections4/collection/UnmodifiableBoundedCollection.html) decorates another [BoundedCollection](http://docs.google.com/org/apache/commons/collections4/BoundedCollection.html) to ensure it can't be altered. |
| * [UnmodifiableCollection](http://docs.google.com/org/apache/commons/collections4/collection/UnmodifiableCollection.html)<E> | * Decorates another [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) to ensure it can't be altered. |

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

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

The following implementations are provided in the package:

* CompositeCollection - a collection that combines multiple collections into one

The following decorators are provided in the package:

* Synchronized - synchronizes method access for multi-threaded environments
* Unmodifiable - ensures the collection cannot be altered
* Predicated - ensures that only elements that are valid according to a predicate can be added
* Transformed - transforms elements as they are added
* Indexed - provides a map-like view onto another collection

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