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org.apache.commons.collections4.collection

## Interface CompositeCollection.CollectionMutator<E>

* Type Parameters: E - the element being held in the collection All Superinterfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true) Enclosing class: [CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)>  
    
  public static interface CompositeCollection.CollectionMutator<E>  
  extends [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Pluggable strategy to handle changes to the composite.

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [add](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html#add-org.apache.commons.collections4.collection.CompositeCollection-java.util.List-E-)([CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> composite, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)>> collections, [E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html) obj) Called when an object is to be added to the composite. |
| * + boolean | * + [addAll](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html#addAll-org.apache.commons.collections4.collection.CompositeCollection-java.util.List-java.util.Collection-)([CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> composite, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)>> collections, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> coll) Called when a collection is to be added to the composite. |
| * + boolean | * + [remove](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html#remove-org.apache.commons.collections4.collection.CompositeCollection-java.util.List-java.lang.Object-)([CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> composite, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)>> collections, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Called when an object is to be removed to the composite. |

### Method Detail

#### add boolean add([CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> composite, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)>> collections, [E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html) obj) Called when an object is to be added to the composite.Parameters: composite - the CompositeCollection being changed collections - all of the Collection instances in this CompositeCollection obj - the object being added Returns: true if the collection is changed Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if add is unsupported [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the object cannot be added due to its type [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the object cannot be added because its null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the object cannot be added

#### addAll boolean addAll([CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> composite, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)>> collections, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> coll) Called when a collection is to be added to the composite.Parameters: composite - the CompositeCollection being changed collections - all of the Collection instances in this CompositeCollection coll - the collection being added Returns: true if the collection is changed Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if add is unsupported [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the object cannot be added due to its type [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the object cannot be added because its null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the object cannot be added

#### remove boolean remove([CompositeCollection](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.html)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)> composite, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/collection/CompositeCollection.CollectionMutator.html)>> collections, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Called when an object is to be removed to the composite.Parameters: composite - the CompositeCollection being changed collections - all of the Collection instances in this CompositeCollection obj - the object being removed Returns: true if the collection is changed Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - if removed is unsupported [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the object cannot be removed due to its type [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the object cannot be removed because its null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the object cannot be removed

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