JavaScript is disabled on your browser.

[Skip navigation links](#1fob9te)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/TransformedSortedSet.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/set/UnmodifiableNavigableSet.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/set/TransformedSortedSet.html)
* [No Frames](http://docs.google.com/TransformedSortedSet.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#2et92p0) |
* [Constr](#tyjcwt) |
* [Method](#3dy6vkm)
* Detail:
* Field |
* [Constr](#1ksv4uv) |
* [Method](#2jxsxqh)

org.apache.commons.collections4.set

## Class TransformedSortedSet<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.collection.AbstractCollectionDecorator](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html)<E>
    - [org.apache.commons.collections4.collection.TransformedCollection](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html)<E>
      * [org.apache.commons.collections4.set.TransformedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html)<E>
        + org.apache.commons.collections4.set.TransformedSortedSet<E>
* Type Parameters: E - the type of the elements in this set All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E>, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>, [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E>, [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> Direct Known Subclasses: [TransformedNavigableSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedNavigableSet.html)  
    
  public class TransformedSortedSet<E>  
  extends [TransformedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html)<E>  
  implements [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E>  
  Decorates another SortedSet to transform objects that are added.  
  The add methods are affected by this class. Thus objects must be removed or searched for using their transformed form. For example, if the transformation converts Strings to Integers, you must use the Integer form to remove objects.  
  This class is Serializable from Commons Collections 3.1.Since: 3.0 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.set.TransformedSortedSet)

### Field Summary

### Fields inherited from class org.apache.commons.collections4.collection.[**TransformedCollection**](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html)[transformer](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#transformer)

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [TransformedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#TransformedSortedSet-java.util.SortedSet-org.apache.commons.collections4.Transformer-)([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> set, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html),? extends [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> transformer) Constructor that wraps (not copies). |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> | * + [comparator](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#comparator--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) | * + [first](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#first--)() |
| * + protected [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> | * + [getSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#getSortedSet--)() Gets the decorated set. |
| * + [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> | * + [headSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#headSet-E-)([E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) toElement) |
| * + [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) | * + [last](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#last--)() |
| * + [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> | * + [subSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#subSet-E-E-)([E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) fromElement, [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) toElement) |
| * + [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> | * + [tailSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#tailSet-E-)([E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) fromElement) |
| * + static <E> [TransformedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)<E> | * + [transformedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#transformedSortedSet-java.util.SortedSet-org.apache.commons.collections4.Transformer-)([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> set, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super E,? extends E> transformer) Factory method to create a transforming sorted set that will transform existing contents of the specified sorted set. |
| * + static <E> [TransformedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)<E> | * + [transformingSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#transformingSortedSet-java.util.SortedSet-org.apache.commons.collections4.Transformer-)([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> set, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super E,? extends E> transformer) Factory method to create a transforming sorted set. |

### Methods inherited from class org.apache.commons.collections4.set.[**TransformedSet**](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html)[equals](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html#equals-java.lang.Object-), [hashCode](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html#hashCode--), [transformedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html#transformedSet-java.util.Set-org.apache.commons.collections4.Transformer-), [transformingSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html#transformingSet-java.util.Set-org.apache.commons.collections4.Transformer-)

### Methods inherited from class org.apache.commons.collections4.collection.[**TransformedCollection**](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html)[add](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#add-E-), [addAll](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#addAll-java.util.Collection-), [transform](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#transform-java.util.Collection-), [transform](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#transform-E-), [transformedCollection](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#transformedCollection-java.util.Collection-org.apache.commons.collections4.Transformer-), [transformingCollection](http://docs.google.com/org/apache/commons/collections4/collection/TransformedCollection.html#transformingCollection-java.util.Collection-org.apache.commons.collections4.Transformer-)

### Methods inherited from class org.apache.commons.collections4.collection.[**AbstractCollectionDecorator**](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html)[clear](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#clear--), [contains](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#contains-java.lang.Object-), [containsAll](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#containsAll-java.util.Collection-), [decorated](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#decorated--), [isEmpty](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#isEmpty--), [iterator](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#iterator--), [remove](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#remove-java.lang.Object-), [removeAll](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#removeAll-java.util.Collection-), [removeIf](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#removeIf-java.util.function.Predicate-), [retainAll](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#retainAll-java.util.Collection-), [setCollection](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#setCollection-java.util.Collection-), [size](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#size--), [toArray](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#toArray--), [toArray](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#toArray-T:A-), [toString](http://docs.google.com/org/apache/commons/collections4/collection/AbstractCollectionDecorator.html#toString--)

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

### Methods inherited from interface java.util.[**Set**](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)[add](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#add-E-), [addAll](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#addAll-java.util.Collection-), [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#clear--), [contains](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#contains-java.lang.Object-), [containsAll](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#containsAll-java.util.Collection-), [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#equals-java.lang.Object-), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#hashCode--), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#isEmpty--), [iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#iterator--), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#remove-java.lang.Object-), [removeAll](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#removeAll-java.util.Collection-), [retainAll](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#retainAll-java.util.Collection-), [size](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#size--), [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#toArray--), [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true#toArray-T:A-)

### Methods inherited from interface java.util.[**Collection**](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)[parallelStream](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#parallelStream--), [removeIf](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#removeIf-java.util.function.Predicate-), [stream](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#stream--)

### Methods inherited from interface java.lang.[**Iterable**](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)[forEach](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true#forEach-java.util.function.Consumer-)

### Constructor Detail

#### TransformedSortedSet protected TransformedSortedSet([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> set, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html),? extends [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> transformer) Constructor that wraps (not copies). If there are any elements already in the set being decorated, they are NOT transformed.Parameters: set - the set to decorate, must not be null transformer - the transformer to use for conversion, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if set or transformer is null

### Method Detail

#### transformingSortedSet public static <E> [TransformedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)<E> transformingSortedSet([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> set, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super E,? extends E> transformer) Factory method to create a transforming sorted set. If there are any elements already in the set being decorated, they are NOT transformed. Contrast this with [transformedSortedSet(SortedSet, Transformer)](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#transformedSortedSet-java.util.SortedSet-org.apache.commons.collections4.Transformer-).Type Parameters: E - the element type Parameters: set - the set to decorate, must not be null transformer - the transformer to use for conversion, must not be null Returns: a new transformed [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true) Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if set or transformer is null Since: 4.0

#### transformedSortedSet public static <E> [TransformedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)<E> transformedSortedSet([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> set, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super E,? extends E> transformer) Factory method to create a transforming sorted set that will transform existing contents of the specified sorted set. If there are any elements already in the set being decorated, they will be transformed by this method. Contrast this with [transformingSortedSet(SortedSet, Transformer)](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html#transformingSortedSet-java.util.SortedSet-org.apache.commons.collections4.Transformer-).Type Parameters: E - the element type Parameters: set - the set to decorate, must not be null transformer - the transformer to use for conversion, must not be null Returns: a new transformed [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true) Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if set or transformer is null Since: 4.0

#### getSortedSet protected [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> getSortedSet() Gets the decorated set.Returns: the decorated set

#### first public [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) first()Specified by: [first](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true#first--) in interface [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)>

#### last public [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) last()Specified by: [last](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true#last--) in interface [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)>

#### comparator public [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> comparator()Specified by: [comparator](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true#comparator--) in interface [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)>

#### subSet public [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> subSet([E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) fromElement, [E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) toElement)Specified by: [subSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true#subSet-E-E-) in interface [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)>

#### headSet public [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> headSet([E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) toElement)Specified by: [headSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true#headSet-E-) in interface [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)>

#### tailSet public [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)> tailSet([E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html) fromElement)Specified by: [tailSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true#tailSet-E-) in interface [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/TransformedSortedSet.html)>

[Skip navigation links](#3o7alnk)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/TransformedSortedSet.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/collections4/set/TransformedSet.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/set/UnmodifiableNavigableSet.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/set/TransformedSortedSet.html)
* [No Frames](http://docs.google.com/TransformedSortedSet.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#2et92p0) |
* [Constr](#tyjcwt) |
* [Method](#3dy6vkm)
* Detail:
* Field |
* [Constr](#1ksv4uv) |
* [Method](#2jxsxqh)

Copyright © 2001–2019 [The Apache Software Foundation](https://www.apache.org/). All rights reserved.