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Uses of Interface

org.apache.commons.collections4.Closure

* Packages that use [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

|  |  |
| --- | --- |
| * Package | * Description |
| * [org.apache.commons.collections4](#3znysh7) | * This package contains the interfaces and utilities shared across all the subpackages of this component. |
| * [org.apache.commons.collections4.functors](#2et92p0) | * This package contains implementations of the [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html), [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html), [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html) and [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html) interfaces. |

### Uses of [**Closure**](http://docs.google.com/org/apache/commons/collections4/Closure.html) in [**org.apache.commons.collections4**](http://docs.google.com/org/apache/commons/collections4/package-summary.html)Methods in [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html) with type parameters of type [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T,C extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super T>> T | * + CollectionUtils.[forAllButLastDo](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#forAllButLastDo-java.lang.Iterable-C-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T> collection, C closure) Deprecated.  since 4.1, use [IterableUtils.forEachButLast(Iterable, Closure)](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#forEachButLast-java.lang.Iterable-org.apache.commons.collections4.Closure-) instead |
| * + static <T,C extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super T>> T | * + CollectionUtils.[forAllButLastDo](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#forAllButLastDo-java.util.Iterator-C-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<T> iterator, C closure) Deprecated.  since 4.1, use [IteratorUtils.forEachButLast(Iterator, Closure)](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#forEachButLast-java.util.Iterator-org.apache.commons.collections4.Closure-) instead |
| * + static <T,C extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super T>> C | * + CollectionUtils.[forAllDo](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#forAllDo-java.lang.Iterable-C-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T> collection, C closure) Deprecated.  since 4.1, use [IterableUtils.forEach(Iterable, Closure)](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#forEach-java.lang.Iterable-org.apache.commons.collections4.Closure-) instead |
| * + static <T,C extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super T>> C | * + CollectionUtils.[forAllDo](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#forAllDo-java.util.Iterator-C-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<T> iterator, C closure) Deprecated.  since 4.1, use [IteratorUtils.forEach(Iterator, Closure)](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#forEach-java.util.Iterator-org.apache.commons.collections4.Closure-) instead |

* + Methods in [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html) that return [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[asClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#asClosure-org.apache.commons.collections4.Transformer-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super E,?> transformer) Creates a Closure that calls a Transformer each time it is called. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#chainedClosure-org.apache.commons.collections4.Closure...-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>... closures) Create a new Closure that calls each closure in turn, passing the result into the next closure. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#chainedClosure-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>> closures) Create a new Closure that calls each closure in turn, passing the result into the next closure. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[doWhileClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#doWhileClosure-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Predicate-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Creates a Closure that will call the closure once and then repeatedly until the predicate returns false. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[exceptionClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#exceptionClosure--)() Gets a Closure that always throws an exception. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[forClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#forClosure-int-org.apache.commons.collections4.Closure-)(int count, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Creates a Closure that will call the closure count times. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[ifClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure) Create a new Closure that calls another closure based on the result of the specified predicate. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[ifClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> falseClosure) Create a new Closure that calls one of two closures depending on the specified predicate. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[invokerClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#invokerClosure-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName) Creates a Closure that will invoke a specific method on the closure's input object by reflection. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[invokerClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#invokerClosure-java.lang.String-java.lang.Class:A-java.lang.Object:A-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] paramTypes, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Creates a Closure that will invoke a specific method on the closure's input object by reflection. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[nopClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#nopClosure--)() Gets a Closure that will do nothing. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E>,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> predicatesAndClosures) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchMapClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchMapClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends E,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> objectsAndClosures) Create a new Closure that uses the input object as a key to find the closure to call. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[whileClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#whileClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Creates a Closure that will call the closure repeatedly until the predicate returns false. |

* + Methods in [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html) with parameters of type [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + TransformerUtils.[asTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#asTransformer-org.apache.commons.collections4.Closure-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super T> closure) Creates a Transformer that calls a Closure each time the transformer is used. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#chainedClosure-org.apache.commons.collections4.Closure...-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>... closures) Create a new Closure that calls each closure in turn, passing the result into the next closure. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[doWhileClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#doWhileClosure-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Predicate-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Creates a Closure that will call the closure once and then repeatedly until the predicate returns false. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[forClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#forClosure-int-org.apache.commons.collections4.Closure-)(int count, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Creates a Closure that will call the closure count times. |
| * + void | * + FluentIterable.[forEach](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html#forEach-org.apache.commons.collections4.Closure-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)> closure) Applies the closure to all elements contained in this iterable. |
| * + static <E> void | * + IterableUtils.[forEach](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#forEach-java.lang.Iterable-org.apache.commons.collections4.Closure-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Applies the closure to each element of the provided iterable. |
| * + static <E> void | * + IteratorUtils.[forEach](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#forEach-java.util.Iterator-org.apache.commons.collections4.Closure-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> iterator, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Applies the closure to each element of the provided iterator. |
| * + static <E> E | * + IterableUtils.[forEachButLast](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#forEachButLast-java.lang.Iterable-org.apache.commons.collections4.Closure-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Executes the given closure on each but the last element in the iterable. |
| * + static <E> E | * + IteratorUtils.[forEachButLast](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#forEachButLast-java.util.Iterator-org.apache.commons.collections4.Closure-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> iterator, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Executes the given closure on each but the last element in the iterator. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[ifClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure) Create a new Closure that calls another closure based on the result of the specified predicate. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[ifClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> falseClosure) Create a new Closure that calls one of two closures depending on the specified predicate. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[ifClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> falseClosure) Create a new Closure that calls one of two closures depending on the specified predicate. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[whileClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#whileClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Creates a Closure that will call the closure repeatedly until the predicate returns false. |

* + Method parameters in [org.apache.commons.collections4](http://docs.google.com/org/apache/commons/collections4/package-summary.html) with type arguments of type [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#chainedClosure-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>> closures) Create a new Closure that calls each closure in turn, passing the result into the next closure. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E>,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> predicatesAndClosures) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ClosureUtils.[switchMapClosure](http://docs.google.com/org/apache/commons/collections4/ClosureUtils.html#switchMapClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends E,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> objectsAndClosures) Create a new Closure that uses the input object as a key to find the closure to call. |

### Uses of [**Closure**](http://docs.google.com/org/apache/commons/collections4/Closure.html) in [**org.apache.commons.collections4.functors**](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html)Classes in [org.apache.commons.collections4.functors](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html) that implement [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Modifier and Type | * + Class and Description |
| * + class | * + [CatchAndRethrowClosure](http://docs.google.com/org/apache/commons/collections4/functors/CatchAndRethrowClosure.html)<E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html) that catches any checked exception and re-throws it as a [FunctorException](http://docs.google.com/org/apache/commons/collections4/FunctorException.html) runtime exception. |
| * + class | * + [ChainedClosure](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html)<E> Closure implementation that chains the specified closures together. |
| * + class | * + [ExceptionClosure](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionClosure.html)<E> Closure implementation that always throws an exception. |
| * + class | * + [ForClosure](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html)<E> Closure implementation that calls another closure n times, like a for loop. |
| * + class | * + [IfClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)<E> Closure implementation acts as an if statement calling one or other closure based on a predicate. |
| * + class | * + [NOPClosure](http://docs.google.com/org/apache/commons/collections4/functors/NOPClosure.html)<E> Closure implementation that does nothing. |
| * + class | * + [SwitchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)<E> Closure implementation calls the closure whose predicate returns true, like a switch statement. |
| * + class | * + [TransformerClosure](http://docs.google.com/org/apache/commons/collections4/functors/TransformerClosure.html)<E> Closure implementation that calls a Transformer using the input object and ignore the result. |
| * + class | * + [WhileClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)<E> Closure implementation that executes a closure repeatedly until a condition is met, like a do-while or while loop. |

* + Fields in [org.apache.commons.collections4.functors](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html) declared as [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Modifier and Type | * + Field and Description |
| * + static [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html) | * + ExceptionClosure.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionClosure.html#INSTANCE) Singleton predicate instance |
| * + static [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html) | * + NOPClosure.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/NOPClosure.html#INSTANCE) Singleton predicate instance |

* + Methods in [org.apache.commons.collections4.functors](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html) that return [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ChainedClosure.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html#chainedClosure-org.apache.commons.collections4.Closure...-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>... closures) Factory method that performs validation and copies the parameter array. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ChainedClosure.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html#chainedClosure-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>> closures) Create a new Closure that calls each closure in turn, passing the result into the next closure. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ExceptionClosure.[exceptionClosure](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionClosure.html#exceptionClosure--)() Factory returning the singleton instance. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ForClosure.[forClosure](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html#forClosure-int-org.apache.commons.collections4.Closure-)(int count, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Factory method that performs validation. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/ClosureTransformer.html)> | * + ClosureTransformer.[getClosure](http://docs.google.com/org/apache/commons/collections4/functors/ClosureTransformer.html#getClosure--)() Gets the closure. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html)> | * + ForClosure.[getClosure](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html#getClosure--)() Gets the closure. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> | * + WhileClosure.[getClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#getClosure--)() Gets the closure. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html)>[] | * + ChainedClosure.[getClosures](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html#getClosures--)() Gets the closures. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] | * + SwitchClosure.[getClosures](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#getClosures--)() Gets the closures. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> | * + SwitchClosure.[getDefaultClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#getDefaultClosure--)() Gets the default closure. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> | * + IfClosure.[getFalseClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#getFalseClosure--)() Gets the closure called when false. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> | * + IfClosure.[getTrueClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#getTrueClosure--)() Gets the closure called when true. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + IfClosure.[ifClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + IfClosure.[ifClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> falseClosure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + NOPClosure.[nopClosure](http://docs.google.com/org/apache/commons/collections4/functors/NOPClosure.html#nopClosure--)() Factory returning the singleton instance. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + SwitchClosure.[switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E>,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> predicatesAndClosures) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + SwitchClosure.[switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Factory method that performs validation and copies the parameter arrays. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + TransformerClosure.[transformerClosure](http://docs.google.com/org/apache/commons/collections4/functors/TransformerClosure.html#transformerClosure-org.apache.commons.collections4.Transformer-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super E,?> transformer) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + WhileClosure.[whileClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#whileClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-boolean-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure, boolean doLoop) Factory method that performs validation. |

* + Methods in [org.apache.commons.collections4.functors](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html) with parameters of type [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ChainedClosure.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html#chainedClosure-org.apache.commons.collections4.Closure...-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>... closures) Factory method that performs validation and copies the parameter array. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + ClosureTransformer.[closureTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ClosureTransformer.html#closureTransformer-org.apache.commons.collections4.Closure-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super T> closure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ForClosure.[forClosure](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html#forClosure-int-org.apache.commons.collections4.Closure-)(int count, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + IfClosure.[ifClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + IfClosure.[ifClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> falseClosure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + IfClosure.[ifClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#ifClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> falseClosure) Factory method that performs validation. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + SwitchClosure.[switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Factory method that performs validation and copies the parameter arrays. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + SwitchClosure.[switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Factory method that performs validation and copies the parameter arrays. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + WhileClosure.[whileClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#whileClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-boolean-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure, boolean doLoop) Factory method that performs validation. |

* + Method parameters in [org.apache.commons.collections4.functors](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html) with type arguments of type [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + ChainedClosure.[chainedClosure](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html#chainedClosure-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>> closures) Create a new Closure that calls each closure in turn, passing the result into the next closure. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + SwitchClosure.[switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E>,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> predicatesAndClosures) Create a new Closure that calls one of the closures depending on the predicates. |

* + Constructors in [org.apache.commons.collections4.functors](http://docs.google.com/org/apache/commons/collections4/functors/package-summary.html) with parameters of type [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)

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| * + Constructor and Description |
| * + [ChainedClosure](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html#ChainedClosure-org.apache.commons.collections4.Closure...-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/ChainedClosure.html)>... closures) Constructor that performs no validation. |
| * + [ClosureTransformer](http://docs.google.com/org/apache/commons/collections4/functors/ClosureTransformer.html#ClosureTransformer-org.apache.commons.collections4.Closure-)([Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/ClosureTransformer.html)> closure) Constructor that performs no validation. |
| * + [ForClosure](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html#ForClosure-int-org.apache.commons.collections4.Closure-)(int count, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/ForClosure.html)> closure) Constructor that performs no validation. |
| * + [IfClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#IfClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> trueClosure) Constructor that performs no validation. |
| * + [IfClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#IfClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> falseClosure) Constructor that performs no validation. |
| * + [IfClosure](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#IfClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> trueClosure, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> falseClosure) Constructor that performs no validation. |
| * + [SwitchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#SwitchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> defaultClosure) Constructor that performs no validation. |
| * + [SwitchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#SwitchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> defaultClosure) Constructor that performs no validation. |
| * + [WhileClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#WhileClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-boolean-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> closure, boolean doLoop) Constructor that performs no validation. |

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