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Uses of Interface

org.apache.commons.collections4.Predicate

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

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| * 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.bag](#2et92p0) | * This package contains implementations of the [Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html) and [SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html) interfaces. |
| * [org.apache.commons.collections4.collection](#tyjcwt) | * This package contains implementations of the [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) interface. |
| * [org.apache.commons.collections4.functors](#3dy6vkm) | * 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. |
| * [org.apache.commons.collections4.iterators](#1t3h5sf) | * This package contains implementations of the [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) interface. |
| * [org.apache.commons.collections4.list](#4d34og8) | * This package contains implementations of the [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true) interface. |
| * [org.apache.commons.collections4.map](#2s8eyo1) | * This package contains implementations of the [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true), [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html), [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html) and [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true) interfaces. |
| * [org.apache.commons.collections4.multiset](#17dp8vu) | * This package contains implementations of the [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html) interface. |
| * [org.apache.commons.collections4.queue](#3rdcrjn) | * This package contains implementations for the [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) interface. |
| * [org.apache.commons.collections4.set](#26in1rg) | * This package contains implementations of the [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true), [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true) and [NavigableSet](https://docs.oracle.com/javase/7/docs/api/java/util/NavigableSet.html?is-external=true) interfaces. |

### Uses of [**Predicate**](http://docs.google.com/org/apache/commons/collections4/Predicate.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) that return [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[allPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#allPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true only if all of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[allPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#allPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true only if all of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[andPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#andPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true only if both of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#anyPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true if any of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#anyPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true if any of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[asPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#asPredicate-org.apache.commons.collections4.Transformer-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> transformer) Create a new Predicate that wraps a Transformer. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[eitherPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#eitherPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if one, but not both, of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[equalPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#equalPredicate-T-)(T value) Creates a Predicate that checks if the input object is equal to the specified object using equals(). |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[exceptionPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#exceptionPredicate--)() Gets a Predicate that always throws an exception. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[falsePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#falsePredicate--)() Gets a Predicate that always returns false. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[identityPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#identityPredicate-T-)(T value) Creates a Predicate that checks if the input object is equal to the specified object by identity. |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + PredicateUtils.[instanceofPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#instanceofPredicate-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type) Creates a Predicate that checks if the object passed in is of a particular type, using instanceof. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[invokerPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#invokerPredicate-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName) Creates a Predicate that invokes a method on the input object. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[invokerPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#invokerPredicate-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 Predicate that invokes a method on the input object. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[neitherPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#neitherPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if neither of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nonePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true if none of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nonePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true if none of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[notNullPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#notNullPredicate--)() Gets a Predicate that checks if the input object passed in is not null. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[notPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#notPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Create a new Predicate that returns true if the specified predicate returns false and vice versa. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullIsExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullIsExceptionPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Gets a Predicate that throws an exception if the input object is null, otherwise it calls the specified Predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullIsFalsePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullIsFalsePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Gets a Predicate that returns false if the input object is null, otherwise it calls the specified Predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullIsTruePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullIsTruePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Gets a Predicate that returns true if the input object is null, otherwise it calls the specified Predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullPredicate--)() Gets a Predicate that checks if the input object passed in is null. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[onePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#onePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true if only one of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[onePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#onePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true if only one of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[orPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#orPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if either of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[transformedPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#transformedPredicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Predicate-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> transformer, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Creates a predicate that transforms the input object before passing it to the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[truePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#truePredicate--)() Gets a Predicate that always returns true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[uniquePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#uniquePredicate--)() Creates a Predicate that returns true the first time an object is encountered, and false if the same object is received again. |

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

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| * + Modifier and Type | * + Method and Description |
| * + boolean | * + FluentIterable.[allMatch](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html#allMatch-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)> predicate) Checks if all elements contained in this iterable are matching the provided predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[allPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#allPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true only if all of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[andPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#andPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true only if both of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[andPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#andPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true only if both of the specified predicates are true. |
| * + boolean | * + FluentIterable.[anyMatch](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html#anyMatch-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)> predicate) Checks if this iterable contains any element matching the provided predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#anyPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true if any of the specified predicates are true. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> | * + TransformerUtils.[asTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#asTransformer-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Creates a Transformer that calls a Predicate each time the transformer is used. |
| * + static <C> int | * + CollectionUtils.[countMatches](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#countMatches-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<C> input, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super C> predicate) Deprecated.  since 4.1, use [IterableUtils.countMatches(Iterable, Predicate)](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#countMatches-java.lang.Iterable-org.apache.commons.collections4.Predicate-) instead |
| * + static <E> long | * + IterableUtils.[countMatches](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#countMatches-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> input, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Counts the number of elements in the input iterable that match the predicate. |
| * + 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 <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[eitherPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#eitherPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if one, but not both, of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[eitherPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#eitherPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if one, but not both, of the specified predicates are true. |
| * + static <C> boolean | * + CollectionUtils.[exists](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#exists-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<C> input, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super C> predicate) Deprecated.  since 4.1, use [IterableUtils.matchesAny(Iterable, Predicate)](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#matchesAny-java.lang.Iterable-org.apache.commons.collections4.Predicate-) instead |
| * + static <T> boolean | * + CollectionUtils.[filter](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#filter-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T> collection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Filter the collection by applying a Predicate to each element. |
| * + [FluentIterable](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)<[E](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)> | * + FluentIterable.[filter](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html#filter-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/FluentIterable.html)> predicate) Returns a new FluentIterable whose iterator will only return elements from this iterable matching the provided predicate. |
| * + static <E> [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> | * + IterableUtils.[filteredIterable](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#filteredIterable-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a view of the given iterable that only contains elements matching the provided predicate. |
| * + static <E> [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> | * + IteratorUtils.[filteredIterator](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#filteredIterator-java.util.Iterator-org.apache.commons.collections4.Predicate-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends E> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Gets an iterator that filters another iterator. |
| * + static <E> [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E> | * + IteratorUtils.[filteredListIterator](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#filteredListIterator-java.util.ListIterator-org.apache.commons.collections4.Predicate-)([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends E> listIterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Gets a list iterator that filters another list iterator. |
| * + static <T> boolean | * + CollectionUtils.[filterInverse](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#filterInverse-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T> collection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Filter the collection by applying a Predicate to each element. |
| * + static <E> E | * + IterableUtils.[find](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#find-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Finds the first element in the given iterable which matches the given predicate. |
| * + static <T> T | * + CollectionUtils.[find](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#find-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<T> collection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Deprecated.  since 4.1, use [IterableUtils.find(Iterable, Predicate)](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#find-java.lang.Iterable-org.apache.commons.collections4.Predicate-) instead |
| * + static <E> E | * + IteratorUtils.[find](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#find-java.util.Iterator-org.apache.commons.collections4.Predicate-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Finds the first element in the given iterator which matches the given 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-)([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 <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + TransformerUtils.[ifTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> falseTransformer) Create a new Transformer that calls one of two transformers depending on the specified predicate. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + TransformerUtils.[ifTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> trueTransformer) Create a new Transformer that calls the transformer if the predicate is true, otherwise the input object is returned unchanged. |
| * + static <E> int | * + IterableUtils.[indexOf](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#indexOf-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns the index of the first element in the specified iterable that matches the given predicate. |
| * + static <E> int | * + IteratorUtils.[indexOf](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#indexOf-java.util.Iterator-org.apache.commons.collections4.Predicate-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns the index of the first element in the specified iterator that matches the given predicate. |
| * + static <E> int | * + ListUtils.[indexOf](http://docs.google.com/org/apache/commons/collections4/ListUtils.html#indexOf-java.util.List-org.apache.commons.collections4.Predicate-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> list, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E> predicate) Finds the first index in the given List which matches the given predicate. |
| * + static <C> boolean | * + CollectionUtils.[matchesAll](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#matchesAll-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<C> input, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super C> predicate) Deprecated.  since 4.1, use [IterableUtils.matchesAll(Iterable, Predicate)](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#matchesAll-java.lang.Iterable-org.apache.commons.collections4.Predicate-) instead |
| * + static <E> boolean | * + IterableUtils.[matchesAll](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#matchesAll-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Answers true if a predicate is true for every element of an iterable. |
| * + static <E> boolean | * + IteratorUtils.[matchesAll](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#matchesAll-java.util.Iterator-org.apache.commons.collections4.Predicate-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Answers true if a predicate is true for every element of an iterator. |
| * + static <E> boolean | * + IterableUtils.[matchesAny](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#matchesAny-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Answers true if a predicate is true for any element of the iterable. |
| * + static <E> boolean | * + IteratorUtils.[matchesAny](http://docs.google.com/org/apache/commons/collections4/IteratorUtils.html#matchesAny-java.util.Iterator-org.apache.commons.collections4.Predicate-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Answers true if a predicate is true for any element of the iterator. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[neitherPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#neitherPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if neither of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[neitherPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#neitherPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if neither of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nonePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true if none of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[notPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#notPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Create a new Predicate that returns true if the specified predicate returns false and vice versa. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullIsExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullIsExceptionPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Gets a Predicate that throws an exception if the input object is null, otherwise it calls the specified Predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullIsFalsePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullIsFalsePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Gets a Predicate that returns false if the input object is null, otherwise it calls the specified Predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nullIsTruePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nullIsTruePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Gets a Predicate that returns true if the input object is null, otherwise it calls the specified Predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[onePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#onePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Create a new Predicate that returns true if only one of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[orPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#orPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if either of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[orPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#orPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Create a new Predicate that returns true if either of the specified predicates are true. |
| * + static <O,R extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<O>> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<R> | * + IterableUtils.[partition](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#partition-java.lang.Iterable-org.apache.commons.collections4.Factory-org.apache.commons.collections4.Predicate...-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> iterable, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<R> partitionFactory, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O>... predicates) Partitions all elements from iterable into separate output collections, based on the evaluation of the given predicates. |
| * + static <O> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<O>> | * + IterableUtils.[partition](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#partition-java.lang.Iterable-org.apache.commons.collections4.Predicate...-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O>... predicates) Partitions all elements from iterable into separate output collections, based on the evaluation of the given predicates. |
| * + static <O> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<O>> | * + IterableUtils.[partition](http://docs.google.com/org/apache/commons/collections4/IterableUtils.html#partition-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> iterable, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O> predicate) Partitions all elements from iterable into separate output collections, based on the evaluation of the given predicate. |
| * + static <E> [Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html)<E> | * + BagUtils.[predicatedBag](http://docs.google.com/org/apache/commons/collections4/BagUtils.html#predicatedBag-org.apache.commons.collections4.Bag-org.apache.commons.collections4.Predicate-)([Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html)<E> bag, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) bag backed by the given bag. |
| * + static <C> [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<C> | * + CollectionUtils.[predicatedCollection](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#predicatedCollection-java.util.Collection-org.apache.commons.collections4.Predicate-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<C> collection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super C> predicate) Returns a predicated (validating) collection backed by the given collection. |
| * + static <E> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> | * + ListUtils.[predicatedList](http://docs.google.com/org/apache/commons/collections4/ListUtils.html#predicatedList-java.util.List-org.apache.commons.collections4.Predicate-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> list, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E> predicate) Returns a predicated (validating) list backed by the given list. |
| * + static <K,V> [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V> | * + MapUtils.[predicatedMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#predicatedMap-java.util.Map-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPred, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePred) Returns a predicated (validating) map backed by the given map. |
| * + static <K,V> [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V> | * + MapUtils.[predicatedMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#predicatedMap-java.util.Map-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPred, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePred) Returns a predicated (validating) map backed by the given map. |
| * + static <E> [MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E> | * + MultiSetUtils.[predicatedMultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSetUtils.html#predicatedMultiSet-org.apache.commons.collections4.MultiSet-org.apache.commons.collections4.Predicate-)([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E> multiset, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) multiset backed by the given multiset. |
| * + static <E> [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> | * + SetUtils.[predicatedNavigableSet](http://docs.google.com/org/apache/commons/collections4/SetUtils.html#predicatedNavigableSet-java.util.NavigableSet-org.apache.commons.collections4.Predicate-)([NavigableSet](https://docs.oracle.com/javase/7/docs/api/java/util/NavigableSet.html?is-external=true)<E> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) navigable set backed by the given navigable set. |
| * + static <E> [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true)<E> | * + QueueUtils.[predicatedQueue](http://docs.google.com/org/apache/commons/collections4/QueueUtils.html#predicatedQueue-java.util.Queue-org.apache.commons.collections4.Predicate-)([Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true)<E> queue, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) queue backed by the given queue. |
| * + static <E> [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E> | * + SetUtils.[predicatedSet](http://docs.google.com/org/apache/commons/collections4/SetUtils.html#predicatedSet-java.util.Set-org.apache.commons.collections4.Predicate-)([Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) set backed by the given set. |
| * + static <E> [SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html)<E> | * + BagUtils.[predicatedSortedBag](http://docs.google.com/org/apache/commons/collections4/BagUtils.html#predicatedSortedBag-org.apache.commons.collections4.SortedBag-org.apache.commons.collections4.Predicate-)([SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html)<E> bag, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) sorted bag backed by the given sorted bag. |
| * + static <K,V> [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> | * + MapUtils.[predicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#predicatedSortedMap-java.util.SortedMap-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPred, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePred) Returns a predicated (validating) sorted map backed by the given map. |
| * + static <K,V> [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> | * + MapUtils.[predicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#predicatedSortedMap-java.util.SortedMap-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPred, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePred) Returns a predicated (validating) sorted map backed by the given map. |
| * + static <E> [SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> | * + SetUtils.[predicatedSortedSet](http://docs.google.com/org/apache/commons/collections4/SetUtils.html#predicatedSortedSet-java.util.SortedSet-org.apache.commons.collections4.Predicate-)([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a predicated (validating) sorted set backed by the given sorted set. |
| * + static <E> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> | * + ListUtils.[select](http://docs.google.com/org/apache/commons/collections4/ListUtils.html#select-java.util.Collection-org.apache.commons.collections4.Predicate-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends E> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Selects all elements from input collection which match the given predicate into an output list. |
| * + static <O> [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<O> | * + CollectionUtils.[select](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#select-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O> predicate) Selects all elements from input collection which match the given predicate into an output collection. |
| * + static <O,R extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? super O>> R | * + CollectionUtils.[select](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#select-java.lang.Iterable-org.apache.commons.collections4.Predicate-R-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O> predicate, R outputCollection) Selects all elements from input collection which match the given predicate and adds them to outputCollection. |
| * + static <O,R extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? super O>> R | * + CollectionUtils.[select](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#select-java.lang.Iterable-org.apache.commons.collections4.Predicate-R-R-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O> predicate, R outputCollection, R rejectedCollection) Selects all elements from inputCollection into an output and rejected collection, based on the evaluation of the given predicate. |
| * + static <E> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> | * + ListUtils.[selectRejected](http://docs.google.com/org/apache/commons/collections4/ListUtils.html#selectRejected-java.util.Collection-org.apache.commons.collections4.Predicate-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends E> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Selects all elements from inputCollection which don't match the given predicate into an output collection. |
| * + static <O> [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<O> | * + CollectionUtils.[selectRejected](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#selectRejected-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O> predicate) Selects all elements from inputCollection which don't match the given predicate into an output collection. |
| * + static <O,R extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? super O>> R | * + CollectionUtils.[selectRejected](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#selectRejected-java.lang.Iterable-org.apache.commons.collections4.Predicate-R-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> inputCollection, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super O> predicate, R outputCollection) Selects all elements from inputCollection which don't match the given predicate and adds them to outputCollection. |
| * + static <O> [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<O> | * + CollectionUtils.[subtract](http://docs.google.com/org/apache/commons/collections4/CollectionUtils.html#subtract-java.lang.Iterable-java.lang.Iterable-org.apache.commons.collections4.Predicate-)([Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> a, [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<? extends O> b, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<O> p) Returns a new [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true) containing *a* minus a subset of *b*. |
| * + 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 <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + TransformerUtils.[switchTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#switchTransformer-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Transformer:A-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>[] transformers) Create a new Transformer that calls one of the transformers depending on the predicates. |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + TransformerUtils.[switchTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#switchTransformer-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Transformer:A-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> defaultTransformer) Create a new Transformer that calls one of the transformers depending on the predicates. |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + TransformerUtils.[switchTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#switchTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> falseTransformer) Deprecated.  as of 4.1, use [TransformerUtils.ifTransformer(Predicate, Transformer, Transformer)](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-) |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[transformedPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#transformedPredicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Predicate-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> transformer, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Creates a predicate that transforms the input object before passing it to the predicate. |
| * + 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 [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| * + Modifier and Type | * + Method and Description |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[allPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#allPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true only if all of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#anyPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true if any of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#nonePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true if none of the specified predicates are true. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + PredicateUtils.[onePredicate](http://docs.google.com/org/apache/commons/collections4/PredicateUtils.html#onePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Create a new Predicate that returns true if only one of the specified predicates are true. |
| * + 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 <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + TransformerUtils.[switchTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#switchTransformer-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)<I>,[Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O>> predicatesAndTransformers) Create a new Transformer that calls one of the transformers depending on the predicates. |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [PredicatedBag](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedBag.html)<E> | * + PredicatedBag.[predicatedBag](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedBag.html#predicatedBag-org.apache.commons.collections4.Bag-org.apache.commons.collections4.Predicate-)([Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html)<E> bag, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) bag. |
| * + static <E> [PredicatedSortedBag](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedSortedBag.html)<E> | * + PredicatedSortedBag.[predicatedSortedBag](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedSortedBag.html#predicatedSortedBag-org.apache.commons.collections4.SortedBag-org.apache.commons.collections4.Predicate-)([SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html)<E> bag, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) bag. |

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

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| * + Constructor and Description |
| * + [PredicatedBag](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedBag.html#PredicatedBag-org.apache.commons.collections4.Bag-org.apache.commons.collections4.Predicate-)([Bag](http://docs.google.com/org/apache/commons/collections4/Bag.html)<[E](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedBag.html)> bag, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedBag.html)> predicate) Constructor that wraps (not copies). |
| * + [PredicatedSortedBag](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedSortedBag.html#PredicatedSortedBag-org.apache.commons.collections4.SortedBag-org.apache.commons.collections4.Predicate-)([SortedBag](http://docs.google.com/org/apache/commons/collections4/SortedBag.html)<[E](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedSortedBag.html)> bag, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/bag/PredicatedSortedBag.html)> predicate) Constructor that wraps (not copies). |

### Uses of [**Predicate**](http://docs.google.com/org/apache/commons/collections4/Predicate.html) in [**org.apache.commons.collections4.collection**](http://docs.google.com/org/apache/commons/collections4/collection/package-summary.html)Fields in [org.apache.commons.collections4.collection](http://docs.google.com/org/apache/commons/collections4/collection/package-summary.html) declared as [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| * + Modifier and Type | * + Field and Description |
| * + protected [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html)> | * + PredicatedCollection.[predicate](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html#predicate) The predicate to use |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [PredicatedCollection.Builder](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.Builder.html)<E> | * + PredicatedCollection.[builder](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html#builder-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Returns a Builder with the given predicate. |
| * + static <T> [PredicatedCollection](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html)<T> | * + PredicatedCollection.[predicatedCollection](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html#predicatedCollection-java.util.Collection-org.apache.commons.collections4.Predicate-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<T> coll, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory method to create a predicated (validating) collection. |

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

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| * + Constructor and Description |
| * + [Builder](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.Builder.html#Builder-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.Builder.html)> predicate) Constructs a PredicatedCollectionBuilder with the specified Predicate. |
| * + [PredicatedCollection](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html#PredicatedCollection-java.util.Collection-org.apache.commons.collections4.Predicate-)([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/PredicatedCollection.html)> coll, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/collection/PredicatedCollection.html)> predicate) Constructor that wraps (not copies). |

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

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| --- | --- |
| * + Modifier and Type | * + Interface and Description |
| * + interface | * + [PredicateDecorator](http://docs.google.com/org/apache/commons/collections4/functors/PredicateDecorator.html)<T> Defines a predicate that decorates one or more other predicates. |

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

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| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [AbstractQuantifierPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)<T> Abstract base class for quantification predicates, e.g. |
| * + class | * + [AllPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html)<T> Predicate implementation that returns true if all the predicates return true. |
| * + class | * + [AndPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html)<T> Predicate implementation that returns true if both the predicates return true. |
| * + class | * + [AnyPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html)<T> Predicate implementation that returns true if any of the predicates return true. |
| * + class | * + [ComparatorPredicate](http://docs.google.com/org/apache/commons/collections4/functors/ComparatorPredicate.html)<T> Predicate that compares the input object with the one stored in the predicate using a comparator. |
| * + class | * + [EqualPredicate](http://docs.google.com/org/apache/commons/collections4/functors/EqualPredicate.html)<T> Predicate implementation that returns true if the input is the same object as the one stored in this predicate by equals. |
| * + class | * + [ExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionPredicate.html)<T> Predicate implementation that always throws an exception. |
| * + class | * + [FalsePredicate](http://docs.google.com/org/apache/commons/collections4/functors/FalsePredicate.html)<T> Predicate implementation that always returns false. |
| * + class | * + [IdentityPredicate](http://docs.google.com/org/apache/commons/collections4/functors/IdentityPredicate.html)<T> Predicate implementation that returns true if the input is the same object as the one stored in this predicate. |
| * + class | * + [InstanceofPredicate](http://docs.google.com/org/apache/commons/collections4/functors/InstanceofPredicate.html) Predicate implementation that returns true if the input is an instanceof the type stored in this predicate. |
| * + class | * + [NonePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html)<T> Predicate implementation that returns true if none of the predicates return true. |
| * + class | * + [NotNullPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NotNullPredicate.html)<T> Predicate implementation that returns true if the input is not null. |
| * + class | * + [NotPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html)<T> Predicate implementation that returns the opposite of the decorated predicate. |
| * + class | * + [NullIsExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html)<T> Predicate implementation that throws an exception if the input is null. |
| * + class | * + [NullIsFalsePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html)<T> Predicate implementation that returns false if the input is null. |
| * + class | * + [NullIsTruePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html)<T> Predicate implementation that returns true if the input is null. |
| * + class | * + [NullPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullPredicate.html)<T> Predicate implementation that returns true if the input is null. |
| * + class | * + [OnePredicate](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html)<T> Predicate implementation that returns true if only one of the predicates return true. |
| * + class | * + [OrPredicate](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html)<T> Predicate implementation that returns true if either of the predicates return true. |
| * + class | * + [TransformedPredicate](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html)<T> Predicate implementation that transforms the given object before invoking another Predicate. |
| * + class | * + [TransformerPredicate](http://docs.google.com/org/apache/commons/collections4/functors/TransformerPredicate.html)<T> Predicate implementation that returns the result of a transformer. |
| * + class | * + [TruePredicate](http://docs.google.com/org/apache/commons/collections4/functors/TruePredicate.html)<T> Predicate implementation that always returns true. |
| * + class | * + [UniquePredicate](http://docs.google.com/org/apache/commons/collections4/functors/UniquePredicate.html)<T> Predicate implementation that returns true the first time an object is passed into the predicate. |

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

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| * + Modifier and Type | * + Field and Description |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html) | * + ExceptionPredicate.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionPredicate.html#INSTANCE) Singleton predicate instance |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html) | * + FalsePredicate.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/FalsePredicate.html#INSTANCE) Singleton predicate instance |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html) | * + NotNullPredicate.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/NotNullPredicate.html#INSTANCE) Singleton predicate instance |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html) | * + NullPredicate.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/NullPredicate.html#INSTANCE) Singleton predicate instance |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html) | * + TruePredicate.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/TruePredicate.html#INSTANCE) Singleton predicate instance |
| * + protected [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)>[] | * + AbstractQuantifierPredicate.[iPredicates](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html#iPredicates) The array of predicates to call |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AllPredicate.[allPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#allPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AllPredicate.[allPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#allPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AndPredicate.[andPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html#andPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AnyPredicate.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html#anyPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AnyPredicate.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html#anyPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + ComparatorPredicate.[comparatorPredicate](http://docs.google.com/org/apache/commons/collections4/functors/ComparatorPredicate.html#comparatorPredicate-T-java.util.Comparator-)(T object, [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<T> comparator) Factory to create the comparator predicate |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + ComparatorPredicate.[comparatorPredicate](http://docs.google.com/org/apache/commons/collections4/functors/ComparatorPredicate.html#comparatorPredicate-T-java.util.Comparator-org.apache.commons.collections4.functors.ComparatorPredicate.Criterion-)(T object, [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<T> comparator, [ComparatorPredicate.Criterion](http://docs.google.com/org/apache/commons/collections4/functors/ComparatorPredicate.Criterion.html) criterion) Factory to create the comparator predicate |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + EqualPredicate.[equalPredicate](http://docs.google.com/org/apache/commons/collections4/functors/EqualPredicate.html#equalPredicate-T-)(T object) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + EqualPredicate.[equalPredicate](http://docs.google.com/org/apache/commons/collections4/functors/EqualPredicate.html#equalPredicate-T-org.apache.commons.collections4.Equator-)(T object, [Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html)<T> equator) Factory to create the identity predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + ExceptionPredicate.[exceptionPredicate](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionPredicate.html#exceptionPredicate--)() Factory returning the singleton instance. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + FalsePredicate.[falsePredicate](http://docs.google.com/org/apache/commons/collections4/functors/FalsePredicate.html#falsePredicate--)() Get a typed instance. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html)> | * + IfClosure.[getPredicate](http://docs.google.com/org/apache/commons/collections4/functors/IfClosure.html#getPredicate--)() Gets the predicate. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> | * + IfTransformer.[getPredicate](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#getPredicate--)() Gets the predicate. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/PredicateTransformer.html)> | * + PredicateTransformer.[getPredicate](http://docs.google.com/org/apache/commons/collections4/functors/PredicateTransformer.html#getPredicate--)() Gets the predicate. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> | * + WhileClosure.[getPredicate](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#getPredicate--)() Gets the predicate in use. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)>[] | * + AbstractQuantifierPredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html#getPredicates--)() Gets the predicates. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html)>[] | * + AndPredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html#getPredicates--)() Gets the two predicates being decorated as an array. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html)>[] | * + NotPredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html#getPredicates--)() Gets the predicate being decorated. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html)>[] | * + NullIsExceptionPredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html#getPredicates--)() Gets the predicate being decorated. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html)>[] | * + NullIsFalsePredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html#getPredicates--)() Gets the predicate being decorated. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html)>[] | * + NullIsTruePredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html#getPredicates--)() Gets the predicate being decorated. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html)>[] | * + OrPredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html#getPredicates--)() Gets the two predicates being decorated as an array. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/PredicateDecorator.html)>[] | * + PredicateDecorator.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/PredicateDecorator.html#getPredicates--)() Gets the predicates being decorated as an array. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] | * + SwitchClosure.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#getPredicates--)() Gets the predicates. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] | * + SwitchTransformer.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#getPredicates--)() Gets the predicates. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html)>[] | * + TransformedPredicate.[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html#getPredicates--)() Gets the predicate being decorated. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + IdentityPredicate.[identityPredicate](http://docs.google.com/org/apache/commons/collections4/functors/IdentityPredicate.html#identityPredicate-T-)(T object) Factory to create the identity predicate. |
| * + static [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<[Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)> | * + InstanceofPredicate.[instanceOfPredicate](http://docs.google.com/org/apache/commons/collections4/functors/InstanceofPredicate.html#instanceOfPredicate-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> type) Factory to create the identity predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NonePredicate.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html#nonePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NonePredicate.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html#nonePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NotNullPredicate.[notNullPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NotNullPredicate.html#notNullPredicate--)() Factory returning the singleton instance. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NotPredicate.[notPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html#notPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the not predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullIsExceptionPredicate.[nullIsExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html#nullIsExceptionPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the null exception predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullIsFalsePredicate.[nullIsFalsePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html#nullIsFalsePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the null false predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullIsTruePredicate.[nullIsTruePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html#nullIsTruePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the null true predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullPredicate.[nullPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullPredicate.html#nullPredicate--)() Factory returning the singleton instance. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OnePredicate.[onePredicate](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html#onePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OnePredicate.[onePredicate](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html#onePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OrPredicate.[orPredicate](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html#orPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + TransformedPredicate.[transformedPredicate](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html#transformedPredicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Predicate-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> transformer, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + TransformerPredicate.[transformerPredicate](http://docs.google.com/org/apache/commons/collections4/functors/TransformerPredicate.html#transformerPredicate-org.apache.commons.collections4.Transformer-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> transformer) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + TruePredicate.[truePredicate](http://docs.google.com/org/apache/commons/collections4/functors/TruePredicate.html#truePredicate--)() Factory returning the singleton instance. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + UniquePredicate.[uniquePredicate](http://docs.google.com/org/apache/commons/collections4/functors/UniquePredicate.html#uniquePredicate--)() Factory to create the predicate. |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AllPredicate.[allPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#allPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AndPredicate.[andPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html#andPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AndPredicate.[andPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html#andPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AnyPredicate.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html#anyPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + 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 <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + IfTransformer.[ifTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> falseTransformer) Factory method that performs validation. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,T> | * + IfTransformer.[ifTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#ifTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> trueTransformer) Factory method that performs validation. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NonePredicate.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html#nonePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NotPredicate.[notPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html#notPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the not predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullIsExceptionPredicate.[nullIsExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html#nullIsExceptionPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the null exception predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullIsFalsePredicate.[nullIsFalsePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html#nullIsFalsePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the null false predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NullIsTruePredicate.[nullIsTruePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html#nullIsTruePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the null true predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OnePredicate.[onePredicate](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html#onePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OrPredicate.[orPredicate](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html#orPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OrPredicate.[orPredicate](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html#orPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate2) Factory to create the predicate. |
| * + static <T> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<T,[Boolean](https://docs.oracle.com/javase/7/docs/api/java/lang/Boolean.html?is-external=true)> | * + PredicateTransformer.[predicateTransformer](http://docs.google.com/org/apache/commons/collections4/functors/PredicateTransformer.html#predicateTransformer-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) 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 <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + SwitchTransformer.[switchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#switchTransformer-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Transformer:A-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O> defaultTransformer) Factory method that performs validation and copies the parameter arrays. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + TransformedPredicate.[transformedPredicate](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html#transformedPredicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Predicate-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super T,? extends T> transformer, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory to create the predicate. |
| * + 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 [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| * + Modifier and Type | * + Method and Description |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AllPredicate.[allPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#allPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + AnyPredicate.[anyPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html#anyPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + NonePredicate.[nonePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html#nonePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + OnePredicate.[onePredicate](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html#onePredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + 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 <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + SwitchTransformer.[switchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#switchTransformer-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super I>,? extends [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super I,? extends O>> map) Create a new Transformer that calls one of the transformers 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 [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| * + Constructor and Description |
| * + [AbstractQuantifierPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html#AbstractQuantifierPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)>... predicates) Constructor that performs no validation. |
| * + [AllPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#AllPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html)>... predicates) Constructor that performs no validation. |
| * + [AndPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html#AndPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html)> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html)> predicate2) Constructor that performs no validation. |
| * + [AndPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html#AndPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html)> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AndPredicate.html)> predicate2) Constructor that performs no validation. |
| * + [AnyPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html#AnyPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AnyPredicate.html)>... predicates) 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. |
| * + [IfTransformer](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html#IfTransformer-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> predicate, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> trueTransformer, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/IfTransformer.html)> falseTransformer) Constructor that performs no validation. |
| * + [NonePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html#NonePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NonePredicate.html)>... predicates) Constructor that performs no validation. |
| * + [NotPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html#NotPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NotPredicate.html)> predicate) Constructor that performs no validation. |
| * + [NullIsExceptionPredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html#NullIsExceptionPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NullIsExceptionPredicate.html)> predicate) Constructor that performs no validation. |
| * + [NullIsFalsePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html#NullIsFalsePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NullIsFalsePredicate.html)> predicate) Constructor that performs no validation. |
| * + [NullIsTruePredicate](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html#NullIsTruePredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/NullIsTruePredicate.html)> predicate) Constructor that performs no validation. |
| * + [OnePredicate](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html#OnePredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/OnePredicate.html)>... predicates) Constructor that performs no validation. |
| * + [OrPredicate](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html#OrPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html)> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html)> predicate2) Constructor that performs no validation. |
| * + [OrPredicate](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html#OrPredicate-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html)> predicate1, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/OrPredicate.html)> predicate2) Constructor that performs no validation. |
| * + [PredicateTransformer](http://docs.google.com/org/apache/commons/collections4/functors/PredicateTransformer.html#PredicateTransformer-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/PredicateTransformer.html)> predicate) 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. |
| * + [SwitchTransformer](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html#SwitchTransformer-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Transformer:A-org.apache.commons.collections4.Transformer-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] predicates, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)>[] transformers, [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [I](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html),? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/SwitchTransformer.html)> defaultTransformer) Constructor that performs no validation. |
| * + [TransformedPredicate](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html#TransformedPredicate-org.apache.commons.collections4.Transformer-org.apache.commons.collections4.Predicate-)([Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html),? extends [T](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html)> transformer, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/TransformedPredicate.html)> predicate) 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. |

### Uses of [**Predicate**](http://docs.google.com/org/apache/commons/collections4/Predicate.html) in [**org.apache.commons.collections4.iterators**](http://docs.google.com/org/apache/commons/collections4/iterators/package-summary.html)Methods in [org.apache.commons.collections4.iterators](http://docs.google.com/org/apache/commons/collections4/iterators/package-summary.html) that return [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| * + Modifier and Type | * + Method and Description |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html)> | * + FilterIterator.[getPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html#getPredicate--)() Gets the predicate this iterator is using. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> | * + FilterListIterator.[getPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#getPredicate--)() Gets the predicate this iterator is using. |

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

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| * + Modifier and Type | * + Method and Description |
| * + void | * + FilterIterator.[setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html#setPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html)> predicate) Sets the predicate this the iterator to use. |
| * + void | * + FilterListIterator.[setPredicate](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setPredicate-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Sets the predicate this the iterator to use. |

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

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| * + Constructor and Description |
| * + [FilterIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html#FilterIterator-java.util.Iterator-org.apache.commons.collections4.Predicate-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html)> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterIterator.html)> predicate) Constructs a new FilterIterator that will use the given iterator and predicate. |
| * + [FilterListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#FilterListIterator-java.util.ListIterator-org.apache.commons.collections4.Predicate-)([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> iterator, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Constructs a new FilterListIterator. |
| * + [FilterListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#FilterListIterator-org.apache.commons.collections4.Predicate-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html)> predicate) Constructs a new FilterListIterator that will not function until [setListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/FilterListIterator.html#setListIterator-java.util.ListIterator-) is invoked. |

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

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| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [PredicatedList](http://docs.google.com/org/apache/commons/collections4/list/PredicatedList.html)<T> | * + PredicatedList.[predicatedList](http://docs.google.com/org/apache/commons/collections4/list/PredicatedList.html#predicatedList-java.util.List-org.apache.commons.collections4.Predicate-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<T> list, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T> predicate) Factory method to create a predicated (validating) list. |

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

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| * + Constructor and Description |
| * + [PredicatedList](http://docs.google.com/org/apache/commons/collections4/list/PredicatedList.html#PredicatedList-java.util.List-org.apache.commons.collections4.Predicate-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/PredicatedList.html)> list, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/list/PredicatedList.html)> predicate) Constructor that wraps (not copies). |

### Uses of [**Predicate**](http://docs.google.com/org/apache/commons/collections4/Predicate.html) in [**org.apache.commons.collections4.map**](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html)Fields in [org.apache.commons.collections4.map](http://docs.google.com/org/apache/commons/collections4/map/package-summary.html) declared as [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)

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| * + Modifier and Type | * + Field and Description |
| * + protected [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> | * + PredicatedMap.[keyPredicate](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html#keyPredicate) The key predicate to use |
| * + protected [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> | * + PredicatedMap.[valuePredicate](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html#valuePredicate) The value predicate to use |

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

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| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <K,V> [PredicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)<K,V> | * + PredicatedMap.[predicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html#predicatedMap-java.util.Map-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePredicate) Factory method to create a predicated (validating) map. |
| * + static <K,V> [PredicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)<K,V> | * + PredicatedMap.[predicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html#predicatedMap-java.util.Map-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePredicate) Factory method to create a predicated (validating) map. |
| * + static <K,V> [PredicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)<K,V> | * + PredicatedSortedMap.[predicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html#predicatedSortedMap-java.util.SortedMap-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePredicate) Factory method to create a predicated (validating) sorted map. |
| * + static <K,V> [PredicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)<K,V> | * + PredicatedSortedMap.[predicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html#predicatedSortedMap-java.util.SortedMap-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super K> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super V> valuePredicate) Factory method to create a predicated (validating) sorted map. |

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

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| * + Constructor and Description |
| * + [PredicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html#PredicatedMap-java.util.Map-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> valuePredicate) Constructor that wraps (not copies). |
| * + [PredicatedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html#PredicatedMap-java.util.Map-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedMap.html)> valuePredicate) Constructor that wraps (not copies). |
| * + [PredicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html#PredicatedSortedMap-java.util.SortedMap-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)> valuePredicate) Constructor that wraps (not copies). |
| * + [PredicatedSortedMap](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html#PredicatedSortedMap-java.util.SortedMap-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Predicate-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)> map, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [K](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)> keyPredicate, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [V](http://docs.google.com/org/apache/commons/collections4/map/PredicatedSortedMap.html)> valuePredicate) Constructor that wraps (not copies). |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [PredicatedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/PredicatedMultiSet.html)<E> | * + PredicatedMultiSet.[predicatedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/PredicatedMultiSet.html#predicatedMultiSet-org.apache.commons.collections4.MultiSet-org.apache.commons.collections4.Predicate-)([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<E> multiset, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) multiset. |

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

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| * + Constructor and Description |
| * + [PredicatedMultiSet](http://docs.google.com/org/apache/commons/collections4/multiset/PredicatedMultiSet.html#PredicatedMultiSet-org.apache.commons.collections4.MultiSet-org.apache.commons.collections4.Predicate-)([MultiSet](http://docs.google.com/org/apache/commons/collections4/MultiSet.html)<[E](http://docs.google.com/org/apache/commons/collections4/multiset/PredicatedMultiSet.html)> multiset, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/multiset/PredicatedMultiSet.html)> predicate) Constructor that wraps (not copies). |

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

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| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <E> [PredicatedQueue](http://docs.google.com/org/apache/commons/collections4/queue/PredicatedQueue.html)<E> | * + PredicatedQueue.[predicatedQueue](http://docs.google.com/org/apache/commons/collections4/queue/PredicatedQueue.html#predicatedQueue-java.util.Queue-org.apache.commons.collections4.Predicate-)([Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true)<E> Queue, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) queue. |

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

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| * + Constructor and Description |
| * + [PredicatedQueue](http://docs.google.com/org/apache/commons/collections4/queue/PredicatedQueue.html#PredicatedQueue-java.util.Queue-org.apache.commons.collections4.Predicate-)([Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/queue/PredicatedQueue.html)> queue, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/queue/PredicatedQueue.html)> predicate) Constructor that wraps (not copies). |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <E> [PredicatedNavigableSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedNavigableSet.html)<E> | * + PredicatedNavigableSet.[predicatedNavigableSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedNavigableSet.html#predicatedNavigableSet-java.util.NavigableSet-org.apache.commons.collections4.Predicate-)([NavigableSet](https://docs.oracle.com/javase/7/docs/api/java/util/NavigableSet.html?is-external=true)<E> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) navigable set. |
| * + static <E> [PredicatedSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSet.html)<E> | * + PredicatedSet.[predicatedSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSet.html#predicatedSet-java.util.Set-org.apache.commons.collections4.Predicate-)([Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<E> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) set. |
| * + static <E> [PredicatedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSortedSet.html)<E> | * + PredicatedSortedSet.[predicatedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSortedSet.html#predicatedSortedSet-java.util.SortedSet-org.apache.commons.collections4.Predicate-)([SortedSet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedSet.html?is-external=true)<E> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate) Factory method to create a predicated (validating) sorted set. |

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

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| * + Constructor and Description |
| * + [PredicatedNavigableSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedNavigableSet.html#PredicatedNavigableSet-java.util.NavigableSet-org.apache.commons.collections4.Predicate-)([NavigableSet](https://docs.oracle.com/javase/7/docs/api/java/util/NavigableSet.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/PredicatedNavigableSet.html)> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/PredicatedNavigableSet.html)> predicate) Constructor that wraps (not copies). |
| * + [PredicatedSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSet.html#PredicatedSet-java.util.Set-org.apache.commons.collections4.Predicate-)([Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSet.html)> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSet.html)> predicate) Constructor that wraps (not copies). |
| * + [PredicatedSortedSet](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSortedSet.html#PredicatedSortedSet-java.util.SortedSet-org.apache.commons.collections4.Predicate-)([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/PredicatedSortedSet.html)> set, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/set/PredicatedSortedSet.html)> predicate) Constructor that wraps (not copies). |

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* [Package](http://docs.google.com/package-summary.html)
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* [Tree](http://docs.google.com/overview-tree.html)
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