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org.apache.commons.collections4.functors

## Class WhileClosure<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.functors.WhileClosure<E>
* All Implemented Interfaces: [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>  
    
  public class WhileClosure<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>  
  Closure implementation that executes a closure repeatedly until a condition is met, like a do-while or while loop.  
  **WARNING:** from v4.1 onwards this class will **not** be serializable anymore in order to prevent potential remote code execution exploits. Please refer to [COLLECTIONS-580](https://issues.apache.org/jira/browse/COLLECTIONS-580) for more details.Since: 3.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [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. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [execute](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#execute-E-)([E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html) input) Executes the closure until the predicate is false. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> | * + [getClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#getClosure--)() Gets the closure. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> | * + [getPredicate](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#getPredicate--)() Gets the predicate in use. |
| * + boolean | * + [isDoLoop](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#isDoLoop--)() Is the loop a do-while loop. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + [whileClosure](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html#whileClosure-org.apache.commons.collections4.Predicate-org.apache.commons.collections4.Closure-boolean-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E> predicate, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> closure, boolean doLoop) Factory method that performs validation. |

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Constructor Detail

#### WhileClosure public WhileClosure([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. Use whileClosure if you want that.Parameters: predicate - the predicate used to evaluate when the loop terminates, not null closure - the closure the execute, not null doLoop - true to act as a do-while loop, always executing the closure once

### Method Detail

#### whileClosure public static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> whileClosure([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.Type Parameters: E - the type that the closure acts on Parameters: predicate - the predicate used to evaluate when the loop terminates, not null closure - the closure the execute, not null doLoop - true to act as a do-while loop, always executing the closure once Returns: the while closure Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the predicate or closure is null

#### execute public void execute([E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html) input) Executes the closure until the predicate is false.Specified by: [execute](http://docs.google.com/org/apache/commons/collections4/Closure.html#execute-T-) in interface [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<[E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> Parameters: input - the input object

#### getPredicate public [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> getPredicate() Gets the predicate in use.Returns: the predicate Since: 3.1

#### getClosure public [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/WhileClosure.html)> getClosure() Gets the closure.Returns: the closure Since: 3.1

#### isDoLoop public boolean isDoLoop() Is the loop a do-while loop.Returns: true is do-while, false if while Since: 3.1

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