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org.apache.commons.collections4

## Class EnumerationUtils

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.EnumerationUtils
* public class EnumerationUtils  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  Provides utility methods for [Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true) instances.Since: 3.0

### Method SummaryAll Methods Static Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> T | * + [get](http://docs.google.com/org/apache/commons/collections4/EnumerationUtils.html#get-java.util.Enumeration-int-)([Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true)<T> e, int index) Returns the index-th value in the [Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true), throwing IndexOutOfBoundsException if there is no such element. |
| * + static <E> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> | * + [toList](http://docs.google.com/org/apache/commons/collections4/EnumerationUtils.html#toList-java.util.Enumeration-)([Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true)<? extends E> enumeration) Creates a list based on an enumeration. |
| * + static [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> | * + [toList](http://docs.google.com/org/apache/commons/collections4/EnumerationUtils.html#toList-java.util.StringTokenizer-)([StringTokenizer](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html?is-external=true) stringTokenizer) Override toList(Enumeration) for StringTokenizer as it implements Enumeration<Object> for the sake of backward compatibility. |

### 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-)

### Method Detail

#### get public static <T> T get([Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true)<T> e, int index) Returns the index-th value in the [Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true), throwing IndexOutOfBoundsException if there is no such element. The Enumeration is advanced to index (or to the end, if index exceeds the number of entries) as a side effect of this method.Type Parameters: T - the type of object in the [Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true) Parameters: e - the enumeration to get a value from index - the index to get Returns: the object at the specified index Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the index is invalid [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the object type is invalid Since: 4.1

#### toList public static <E> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> toList([Enumeration](https://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html?is-external=true)<? extends E> enumeration) Creates a list based on an enumeration. As the enumeration is traversed, an ArrayList of its values is created. The new list is returned.Type Parameters: E - the element type Parameters: enumeration - the enumeration to traverse, which should not be null. Returns: a list containing all elements of the given enumeration Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the enumeration parameter is null.

#### toList public static [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> toList([StringTokenizer](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html?is-external=true) stringTokenizer) Override toList(Enumeration) for StringTokenizer as it implements Enumeration<Object> for the sake of backward compatibility.Parameters: stringTokenizer - the tokenizer to convert to a [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true)> Returns: a list containing all tokens of the given StringTokenizer

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