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Uses of Interface

org.apache.commons.collections4.Factory

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

|  |  |
| --- | --- |
| * Package | * Description |
| * [org.apache.commons.collections4](#3znysh7) | * This package contains the interfaces and utilities shared across all the subpackages of this component. |
| * [org.apache.commons.collections4.functors](#2et92p0) | * This package contains implementations of the [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html), [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html), [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html) and [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html) interfaces. |
| * [org.apache.commons.collections4.list](#tyjcwt) | * 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](#3dy6vkm) | * 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. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + FactoryUtils.[constantFactory](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html#constantFactory-T-)(T constantToReturn) Creates a Factory that will return the same object each time the factory is used. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + FactoryUtils.[exceptionFactory](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html#exceptionFactory--)() Gets a Factory that always throws an exception. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + FactoryUtils.[instantiateFactory](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html#instantiateFactory-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> classToInstantiate) Creates a Factory that can create objects of a specific type using a no-args constructor. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + FactoryUtils.[instantiateFactory](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html#instantiateFactory-java.lang.Class-java.lang.Class:A-java.lang.Object:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> classToInstantiate, [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 Factory that can create objects of a specific type using the arguments specified to this method. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + FactoryUtils.[nullFactory](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html#nullFactory--)() Gets a Factory that will return null each time the factory is used. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + FactoryUtils.[prototypeFactory](http://docs.google.com/org/apache/commons/collections4/FactoryUtils.html#prototypeFactory-T-)(T prototype) Creates a Factory that will return a clone of the same prototype object each time the factory is used. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + TransformerUtils.[asTransformer](http://docs.google.com/org/apache/commons/collections4/TransformerUtils.html#asTransformer-org.apache.commons.collections4.Factory-)([Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends O> factory) Creates a Transformer that calls a Factory each time the transformer is used. |
| * + static <E> [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> | * + ListUtils.[lazyList](http://docs.google.com/org/apache/commons/collections4/ListUtils.html#lazyList-java.util.List-org.apache.commons.collections4.Factory-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> list, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends E> factory) Returns a "lazy" list whose elements will be created on demand. |
| * + static <K,V> [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V> | * + MapUtils.[lazyMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#lazyMap-java.util.Map-org.apache.commons.collections4.Factory-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends V> factory) Returns a "lazy" map whose values will be created on demand. |
| * + static <K,V> [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> | * + MapUtils.[lazySortedMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#lazySortedMap-java.util.SortedMap-org.apache.commons.collections4.Factory-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends V> factory) Returns a "lazy" sorted map whose values will be created on demand. |
| * + static <K,V,C extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> | * + MapUtils.[multiValueMap](http://docs.google.com/org/apache/commons/collections4/MapUtils.html#multiValueMap-java.util.Map-org.apache.commons.collections4.Factory-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  since 4.1, use [MultiValuedMap](http://docs.google.com/org/apache/commons/collections4/MultiValuedMap.html) instead |
| * + 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. |

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

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| --- | --- |
| * + Modifier and Type | * + Class and Description |
| * + class | * + [ConstantFactory](http://docs.google.com/org/apache/commons/collections4/functors/ConstantFactory.html)<T> Factory implementation that returns the same constant each time. |
| * + class | * + [ExceptionFactory](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionFactory.html)<T> Factory implementation that always throws an exception. |
| * + class | * + [InstantiateFactory](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html)<T> Factory implementation that creates a new object instance by reflection. |

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

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| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + static [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html) | * + ExceptionFactory.[INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionFactory.html#INSTANCE) Singleton predicate instance |
| * + static [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html) | * + ConstantFactory.[NULL\_INSTANCE](http://docs.google.com/org/apache/commons/collections4/functors/ConstantFactory.html#NULL_INSTANCE) Returns null each time |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + ConstantFactory.[constantFactory](http://docs.google.com/org/apache/commons/collections4/functors/ConstantFactory.html#constantFactory-T-)(T constantToReturn) Factory method that performs validation. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + ExceptionFactory.[exceptionFactory](http://docs.google.com/org/apache/commons/collections4/functors/ExceptionFactory.html#exceptionFactory--)() Factory returning the singleton instance. |
| * + [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/FactoryTransformer.html)> | * + FactoryTransformer.[getFactory](http://docs.google.com/org/apache/commons/collections4/functors/FactoryTransformer.html#getFactory--)() Gets the factory. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + InstantiateFactory.[instantiateFactory](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html#instantiateFactory-java.lang.Class-java.lang.Class:A-java.lang.Object:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> classToInstantiate, [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) Factory method that performs validation. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + PrototypeFactory.[prototypeFactory](http://docs.google.com/org/apache/commons/collections4/functors/PrototypeFactory.html#prototypeFactory-T-)(T prototype) Factory method that performs validation. |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <I,O> [Transformer](http://docs.google.com/org/apache/commons/collections4/Transformer.html)<I,O> | * + FactoryTransformer.[factoryTransformer](http://docs.google.com/org/apache/commons/collections4/functors/FactoryTransformer.html#factoryTransformer-org.apache.commons.collections4.Factory-)([Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends O> factory) Factory method that performs validation. |

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

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| --- |
| * + Constructor and Description |
| * + [FactoryTransformer](http://docs.google.com/org/apache/commons/collections4/functors/FactoryTransformer.html#FactoryTransformer-org.apache.commons.collections4.Factory-)([Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends [O](http://docs.google.com/org/apache/commons/collections4/functors/FactoryTransformer.html)> factory) Constructor that performs no validation. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <E> [LazyList](http://docs.google.com/org/apache/commons/collections4/list/LazyList.html)<E> | * + LazyList.[lazyList](http://docs.google.com/org/apache/commons/collections4/list/LazyList.html#lazyList-java.util.List-org.apache.commons.collections4.Factory-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E> list, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends E> factory) Factory method to create a lazily instantiating list. |

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

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| --- |
| * + Constructor and Description |
| * + [LazyList](http://docs.google.com/org/apache/commons/collections4/list/LazyList.html#LazyList-java.util.List-org.apache.commons.collections4.Factory-)([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/LazyList.html)> list, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends [E](http://docs.google.com/org/apache/commons/collections4/list/LazyList.html)> factory) Constructor that wraps (not copies). |

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

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| * + Modifier and Type | * + Method and Description |
| * + static <K,V> [DefaultedMap](http://docs.google.com/org/apache/commons/collections4/map/DefaultedMap.html)<K,V> | * + DefaultedMap.[defaultedMap](http://docs.google.com/org/apache/commons/collections4/map/DefaultedMap.html#defaultedMap-java.util.Map-org.apache.commons.collections4.Factory-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends V> factory) Factory method to create a defaulting map. |
| * + static <K,V> [LazyMap](http://docs.google.com/org/apache/commons/collections4/map/LazyMap.html)<K,V> | * + LazyMap.[lazyMap](http://docs.google.com/org/apache/commons/collections4/map/LazyMap.html#lazyMap-java.util.Map-org.apache.commons.collections4.Factory-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends V> factory) Factory method to create a lazily instantiated map. |
| * + static <K,V> [LazySortedMap](http://docs.google.com/org/apache/commons/collections4/map/LazySortedMap.html)<K,V> | * + LazySortedMap.[lazySortedMap](http://docs.google.com/org/apache/commons/collections4/map/LazySortedMap.html#lazySortedMap-java.util.SortedMap-org.apache.commons.collections4.Factory-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends V> factory) Factory method to create a lazily instantiated sorted map. |
| * + static <K,V,C extends [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<V>> [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html)<K,V> | * + MultiValueMap.[multiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#multiValueMap-java.util.Map-org.apache.commons.collections4.Factory-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,? super C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  Creates a map which decorates the given map and creates the value collections using the supplied collectionFactory. |

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

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| --- |
| * + Constructor and Description |
| * + [LazyMap](http://docs.google.com/org/apache/commons/collections4/map/LazyMap.html#LazyMap-java.util.Map-org.apache.commons.collections4.Factory-)([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/LazyMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/LazyMap.html)> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends [V](http://docs.google.com/org/apache/commons/collections4/map/LazyMap.html)> factory) Constructor that wraps (not copies). |
| * + [LazySortedMap](http://docs.google.com/org/apache/commons/collections4/map/LazySortedMap.html#LazySortedMap-java.util.SortedMap-org.apache.commons.collections4.Factory-)([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/LazySortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/LazySortedMap.html)> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<? extends [V](http://docs.google.com/org/apache/commons/collections4/map/LazySortedMap.html)> factory) Constructor that wraps (not copies). |
| * + [MultiValueMap](http://docs.google.com/org/apache/commons/collections4/map/MultiValueMap.html#MultiValueMap-java.util.Map-org.apache.commons.collections4.Factory-)([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/MultiValueMap.html),? super C> map, [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<C> collectionFactory) Deprecated.  Creates a MultiValueMap which decorates the given map and creates the value collections using the supplied collectionFactory. |

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* [All Classes](http://docs.google.com/allclasses-noframe.html)

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