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org.apache.commons.collections4.functors

## Class InstantiateFactory<T>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.functors.InstantiateFactory<T>
* All Implemented Interfaces: [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T>  
    
  public class InstantiateFactory<T>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T>  
  Factory implementation that creates a new object instance by reflection.  
  **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 |
| * + [InstantiateFactory](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html#InstantiateFactory-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html)> classToInstantiate) Constructor that performs no validation. |
| * + [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](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html)> 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) Constructor that performs no validation. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [T](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html) | * + [create](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html#create--)() Creates an object using the stored constructor. |
| * + static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> | * + [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. |

### 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

#### InstantiateFactory public InstantiateFactory([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html)> classToInstantiate) Constructor that performs no validation. Use instantiateFactory if you want that.Parameters: classToInstantiate - the class to instantiate

#### InstantiateFactory public InstantiateFactory([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html)> 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) Constructor that performs no validation. Use instantiateFactory if you want that.Parameters: classToInstantiate - the class to instantiate paramTypes - the constructor parameter types, cloned args - the constructor arguments, cloned

### Method Detail

#### instantiateFactory public static <T> [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<T> instantiateFactory([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.Type Parameters: T - the type the factory creates Parameters: classToInstantiate - the class to instantiate, not null paramTypes - the constructor parameter types, cloned args - the constructor arguments, cloned Returns: a new instantiate factory Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if classToInstantiate is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if paramTypes does not match args

#### create public [T](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html) create() Creates an object using the stored constructor.Specified by: [create](http://docs.google.com/org/apache/commons/collections4/Factory.html#create--) in interface [Factory](http://docs.google.com/org/apache/commons/collections4/Factory.html)<[T](http://docs.google.com/org/apache/commons/collections4/functors/InstantiateFactory.html)> Returns: the new object

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