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org.apache.commons.beanutils

## Class ConstructorUtils

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.beanutils.ConstructorUtils

#### public class ConstructorUtils extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Utility reflection methods focussed on constructors, modelled after [MethodUtils](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html). Known Limitations Accessing Public Constructors In A Default Access Superclass There is an issue when invoking public constructors contained in a default access superclass. Reflection locates these constructors fine and correctly assigns them as public. However, an IllegalAccessException is thrown if the constructors is invoked. ConstructorUtils contains a workaround for this situation. It will attempt to call setAccessible on this constructor. If this call succeeds, then the method can be invoked as normal. This call will only succeed when the application has sufficient security privilages. If this call fails then a warning will be logged and the method may fail.Version: $Id$

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ConstructorUtils](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#ConstructorUtils--)() |

### Method SummaryAll Methods Static Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> | * + [getAccessibleConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#getAccessibleConstructor-java.lang.Class-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterType) Returns a constructor with single argument. |
| * + static <T> [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> | * + [getAccessibleConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#getAccessibleConstructor-java.lang.Class-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Returns a constructor given a class and signature. |
| * + static <T> [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> | * + [getAccessibleConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#getAccessibleConstructor-java.lang.reflect.Constructor-)([Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> ctor) Returns accessible version of the given constructor. |
| * + static <T> T | * + [invokeConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeConstructor-java.lang.Class-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) Convenience method returning new instance of klazz using a single argument constructor. |
| * + static <T> T | * + [invokeConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeConstructor-java.lang.Class-java.lang.Object:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Returns new instance of klazz created using the actual arguments args. |
| * + static <T> T | * + [invokeConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Returns new instance of klazz created using constructor with signature parameterTypes and actual arguments args. |
| * + static <T> T | * + [invokeExactConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) Convenience method returning new instance of klazz using a single argument constructor. |
| * + static <T> T | * + [invokeExactConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Returns new instance of klazz created using the actual arguments args. |
| * + static <T> T | * + [invokeExactConstructor](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Returns new instance of klazz created using constructor with signature parameterTypes and actual arguments args. |

### 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

#### ConstructorUtils public ConstructorUtils()

### Method Detail

#### invokeConstructor public static <T> T invokeConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) throws [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) Convenience method returning new instance of klazz using a single argument constructor. The formal parameter type is inferred from the actual values of arg. See [invokeExactConstructor(Class, Object[], Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-) for more details. The signatures should be assignment compatible.Type Parameters: T - the type of the object to be constructed Parameters: klass - the class to be constructed. arg - the actual argument. May be null (this will result in calling the default constructor). Returns: new instance of klazz Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - If the constructor cannot be found [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - If an error occurs accessing the constructor [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - If an error occurs invoking the constructor [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - If an error occurs instantiating the class See Also: [invokeConstructor(java.lang.Class, java.lang.Object[], java.lang.Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-)

#### invokeConstructor public static <T> T invokeConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) throws [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) Returns new instance of klazz created using the actual arguments args. The formal parameter types are inferred from the actual values of args. See [invokeExactConstructor(Class, Object[], Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-) for more details. The signatures should be assignment compatible.Type Parameters: T - the type of the object to be constructed Parameters: klass - the class to be constructed. args - actual argument array. May be null (this will result in calling the default constructor). Returns: new instance of klazz Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - If the constructor cannot be found [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - If an error occurs accessing the constructor [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - If an error occurs invoking the constructor [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - If an error occurs instantiating the class See Also: [invokeConstructor(java.lang.Class, java.lang.Object[], java.lang.Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-)

#### invokeConstructor public static <T> T invokeConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) throws [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) Returns new instance of klazz created using constructor with signature parameterTypes and actual arguments args. The signatures should be assignment compatible.Type Parameters: T - the type of the object to be constructed Parameters: klass - the class to be constructed. args - actual argument array. May be null (this will result in calling the default constructor). parameterTypes - parameter types array Returns: new instance of klazz Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if matching constructor cannot be found [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - thrown on the constructor's invocation [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - thrown on the constructor's invocation [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - thrown on the constructor's invocation See Also: [Constructor.newInstance(java.lang.Object...)](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true#newInstance-java.lang.Object...-)

#### invokeExactConstructor public static <T> T invokeExactConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) throws [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) Convenience method returning new instance of klazz using a single argument constructor. The formal parameter type is inferred from the actual values of arg. See [invokeExactConstructor(Class, Object[], Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-) for more details. The signatures should match exactly.Type Parameters: T - the type of the object to be constructed Parameters: klass - the class to be constructed. arg - the actual argument. May be null (this will result in calling the default constructor). Returns: new instance of klazz Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - If the constructor cannot be found [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - If an error occurs accessing the constructor [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - If an error occurs invoking the constructor [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - If an error occurs instantiating the class See Also: [invokeExactConstructor(java.lang.Class, java.lang.Object[], java.lang.Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-)

#### invokeExactConstructor public static <T> T invokeExactConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) throws [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) Returns new instance of klazz created using the actual arguments args. The formal parameter types are inferred from the actual values of args. See [invokeExactConstructor(Class, Object[], Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-) for more details. The signatures should match exactly.Type Parameters: T - the type of the object to be constructed Parameters: klass - the class to be constructed. args - actual argument array. May be null (this will result in calling the default constructor). Returns: new instance of klazz Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - If the constructor cannot be found [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - If an error occurs accessing the constructor [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - If an error occurs invoking the constructor [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - If an error occurs instantiating the class See Also: [invokeExactConstructor(java.lang.Class, java.lang.Object[], java.lang.Class[])](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#invokeExactConstructor-java.lang.Class-java.lang.Object:A-java.lang.Class:A-)

#### invokeExactConstructor public static <T> T invokeExactConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) throws [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true), [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true), [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true), [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) Returns new instance of klazz created using constructor with signature parameterTypes and actual arguments args. The signatures should match exactly.Type Parameters: T - the type of the object to be constructed Parameters: klass - the class to be constructed. args - actual argument array. May be null (this will result in calling the default constructor). parameterTypes - parameter types array Returns: new instance of klazz Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if matching constructor cannot be found [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - thrown on the constructor's invocation [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - thrown on the constructor's invocation [InstantiationException](https://docs.oracle.com/javase/7/docs/api/java/lang/InstantiationException.html?is-external=true) - thrown on the constructor's invocation See Also: [Constructor.newInstance(java.lang.Object...)](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true#newInstance-java.lang.Object...-)

#### getAccessibleConstructor public static <T> [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> getAccessibleConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterType) Returns a constructor with single argument.Type Parameters: T - the type of the constructor Parameters: klass - the class to be constructed parameterType - The constructor parameter type Returns: null if matching accessible constructor can not be found. See Also: [Class.getConstructor(java.lang.Class<?>...)](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true#getConstructor-java.lang.Class...-), [getAccessibleConstructor(java.lang.reflect.Constructor)](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#getAccessibleConstructor-java.lang.reflect.Constructor-)

#### getAccessibleConstructor public static <T> [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> getAccessibleConstructor([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<T> klass, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Returns a constructor given a class and signature.Type Parameters: T - the type to be constructed Parameters: klass - the class to be constructed parameterTypes - the parameter array Returns: null if matching accessible constructor can not be found See Also: [Class.getConstructor(java.lang.Class<?>...)](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true#getConstructor-java.lang.Class...-), [getAccessibleConstructor(java.lang.reflect.Constructor)](http://docs.google.com/org/apache/commons/beanutils/ConstructorUtils.html#getAccessibleConstructor-java.lang.reflect.Constructor-)

#### getAccessibleConstructor public static <T> [Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> getAccessibleConstructor([Constructor](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Constructor.html?is-external=true)<T> ctor) Returns accessible version of the given constructor.Type Parameters: T - the type of the constructor Parameters: ctor - prototype constructor object. Returns: null if accessible constructor can not be found. See Also: [SecurityManager](https://docs.oracle.com/javase/7/docs/api/java/lang/SecurityManager.html?is-external=true)

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