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org.apache.commons.beanutils

## Class MethodUtils

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

#### public class MethodUtils extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Utility reflection methods focused on methods in general rather than properties in particular. Known Limitations Accessing Public Methods In A Default Access Superclass There is an issue when invoking public methods contained in a default access superclass. Reflection locates these methods fine and correctly assigns them as public. However, an IllegalAccessException is thrown if the method is invoked. MethodUtils contains a workaround for this situation. It will attempt to call setAccessible on this method. 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 |
| * + [MethodUtils](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#MethodUtils--)() |

### Method SummaryAll Methods Static Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static int | * + [clearCache](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#clearCache--)() Clear the method cache. |
| * + static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getAccessibleMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.Class-java.lang.reflect.Method-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) method) Return an accessible method (that is, one that can be invoked via reflection) that implements the specified Method. |
| * + static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getAccessibleMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.Class-java.lang.String-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterType) Return an accessible method (that is, one that can be invoked via reflection) with given name and a single parameter. |
| * + static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getAccessibleMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.Class-java.lang.String-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Return an accessible method (that is, one that can be invoked via reflection) with given name and parameters. |
| * + static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getAccessibleMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.reflect.Method-)([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) method) Return an accessible method (that is, one that can be invoked via reflection) that implements the specified Method. |
| * + static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) | * + [getMatchingAccessibleMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getMatchingAccessibleMethod-java.lang.Class-java.lang.String-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Find an accessible method that matches the given name and has compatible parameters. |
| * + static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getPrimitiveType](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getPrimitiveType-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> wrapperType) Gets the class for the primitive type corresponding to the primitive wrapper class given. |
| * + static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [getPrimitiveWrapper](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getPrimitiveWrapper-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> primitiveType) Gets the wrapper object class for the given primitive type class. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeExactMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) Invoke a method whose parameter type matches exactly the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeExactMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Invoke a method whose parameter types match exactly the object types. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeExactMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-java.lang.Class:A-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a method whose parameter types match exactly the parameter types given. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeExactStaticMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactStaticMethod-java.lang.Class-java.lang.String-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) Invoke a static method whose parameter type matches exactly the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeExactStaticMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Invoke a static method whose parameter types match exactly the object types. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeExactStaticMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a static method whose parameter types match exactly the parameter types given. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeMethod-java.lang.Object-java.lang.String-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) Invoke a named method whose parameter type matches the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeMethod-java.lang.Object-java.lang.String-java.lang.Object:A-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Invoke a named method whose parameter type matches the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeMethod-java.lang.Object-java.lang.String-java.lang.Object:A-java.lang.Class:A-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named method whose parameter type matches the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeStaticMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeStaticMethod-java.lang.Class-java.lang.String-java.lang.Object-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) arg) Invoke a named static method whose parameter type matches the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeStaticMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] args) Invoke a named static method whose parameter type matches the object type. |
| * + static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [invokeStaticMethod](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-java.lang.Class:A-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named static method whose parameter type matches the object type. |
| * + static boolean | * + [isAssignmentCompatible](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#isAssignmentCompatible-java.lang.Class-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterType, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterization) Determine whether a type can be used as a parameter in a method invocation. |
| * + static void | * + [setCacheMethods](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#setCacheMethods-boolean-)(boolean cacheMethods) Set whether methods should be cached for greater performance or not, default is true. |
| * + static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> | * + [toNonPrimitiveClass](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#toNonPrimitiveClass-java.lang.Class-)([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Find a non primitive representation for given primitive class. |

### 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

#### MethodUtils public MethodUtils()

### Method Detail

#### setCacheMethods public static void setCacheMethods(boolean cacheMethods) Set whether methods should be cached for greater performance or not, default is true.Parameters: cacheMethods - true if methods should be cached for greater performance, otherwise false Since: 1.8.0

#### clearCache public static int clearCache() Clear the method cache.Returns: the number of cached methods cleared Since: 1.8.0

#### invokeMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named method whose parameter type matches the object type. The behaviour of this method is less deterministic than invokeExactMethod(). It loops through all methods with names that match and then executes the first it finds with compatible parameters. This method supports calls to methods taking primitive parameters via passing in wrapping classes. So, for example, a Boolean class would match a boolean primitive. This is a convenient wrapper for [invokeMethod(Object object,String methodName,Object [] args)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeMethod-java.lang.Object-java.lang.String-java.lang.Object:A-).Parameters: object - invoke method on this object methodName - get method with this name arg - use this argument. May be null (this will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection

#### invokeMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named method whose parameter type matches the object type. The behaviour of this method is less deterministic than [invokeExactMethod(Object object,String methodName,Object [] args)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-). It loops through all methods with names that match and then executes the first it finds with compatible parameters. This method supports calls to methods taking primitive parameters via passing in wrapping classes. So, for example, a Boolean class would match a boolean primitive. This is a convenient wrapper for [invokeMethod(Object object,String methodName,Object [] args,Class[] parameterTypes)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeMethod-java.lang.Object-java.lang.String-java.lang.Object:A-java.lang.Class:A-).Parameters: object - invoke method on this object methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection

#### invokeMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named method whose parameter type matches the object type. The behaviour of this method is less deterministic than [invokeExactMethod(Object object,String methodName,Object [] args,Class[] parameterTypes)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-java.lang.Class:A-). It loops through all methods with names that match and then executes the first it finds with compatible parameters. This method supports calls to methods taking primitive parameters via passing in wrapping classes. So, for example, a Boolean class would match a boolean primitive.Parameters: object - invoke method on this object methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). parameterTypes - match these parameters - treat null as empty array Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection

#### invokeExactMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeExactMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a method whose parameter type matches exactly the object type. This is a convenient wrapper for [invokeExactMethod(Object object,String methodName,Object [] args)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-).Parameters: object - invoke method on this object methodName - get method with this name arg - use this argument. May be null (this will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection

#### invokeExactMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeExactMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a method whose parameter types match exactly the object types. This uses reflection to invoke the method obtained from a call to getAccessibleMethod().Parameters: object - invoke method on this object methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection

#### invokeExactMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeExactMethod([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a method whose parameter types match exactly the parameter types given. This uses reflection to invoke the method obtained from a call to getAccessibleMethod().Parameters: object - invoke method on this object methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). parameterTypes - match these parameters - treat null as empty array Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection

#### invokeExactStaticMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeExactStaticMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a static method whose parameter types match exactly the parameter types given. This uses reflection to invoke the method obtained from a call to [getAccessibleMethod(Class, String, Class[])](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.Class-java.lang.String-java.lang.Class:A-).Parameters: objectClass - invoke static method on this class methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). parameterTypes - match these parameters - treat null as empty array Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection Since: 1.8.0

#### invokeStaticMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeStaticMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named static method whose parameter type matches the object type. The behaviour of this method is less deterministic than [invokeExactMethod(Object, String, Object[], Class[])](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-java.lang.Class:A-). It loops through all methods with names that match and then executes the first it finds with compatible parameters. This method supports calls to methods taking primitive parameters via passing in wrapping classes. So, for example, a Boolean class would match a boolean primitive. This is a convenient wrapper for [invokeStaticMethod(Class objectClass,String methodName,Object [] args)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-).Parameters: objectClass - invoke static method on this class methodName - get method with this name arg - use this argument. May be null (this will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection Since: 1.8.0

#### invokeStaticMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeStaticMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named static method whose parameter type matches the object type. The behaviour of this method is less deterministic than [invokeExactMethod(Object object,String methodName,Object [] args)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactMethod-java.lang.Object-java.lang.String-java.lang.Object:A-). It loops through all methods with names that match and then executes the first it finds with compatible parameters. This method supports calls to methods taking primitive parameters via passing in wrapping classes. So, for example, a Boolean class would match a boolean primitive. This is a convenient wrapper for [invokeStaticMethod(Class objectClass,String methodName,Object [] args,Class[] parameterTypes)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-java.lang.Class:A-).Parameters: objectClass - invoke static method on this class methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection Since: 1.8.0

#### invokeStaticMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeStaticMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a named static method whose parameter type matches the object type. The behaviour of this method is less deterministic than [invokeExactStaticMethod(Class objectClass,String methodName,Object [] args,Class[] parameterTypes)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-java.lang.Class:A-). It loops through all methods with names that match and then executes the first it finds with compatible parameters. This method supports calls to methods taking primitive parameters via passing in wrapping classes. So, for example, a Boolean class would match a boolean primitive.Parameters: objectClass - invoke static method on this class methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). parameterTypes - match these parameters - treat null as empty array Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection Since: 1.8.0

#### invokeExactStaticMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeExactStaticMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a static method whose parameter type matches exactly the object type. This is a convenient wrapper for [invokeExactStaticMethod(Class objectClass,String methodName,Object [] args)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeExactStaticMethod-java.lang.Class-java.lang.String-java.lang.Object:A-).Parameters: objectClass - invoke static method on this class methodName - get method with this name arg - use this argument. May be null (this will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection Since: 1.8.0

#### invokeExactStaticMethod public static [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) invokeExactStaticMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> objectClass, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [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) Invoke a static method whose parameter types match exactly the object types. This uses reflection to invoke the method obtained from a call to [getAccessibleMethod(Class, String, Class[])](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.Class-java.lang.String-java.lang.Class:A-).Parameters: objectClass - invoke static method on this class methodName - get method with this name args - use these arguments - treat null as empty array (passing null will result in calling the parameterless method with name methodName). Returns: The value returned by the invoked method Throws: [NoSuchMethodException](https://docs.oracle.com/javase/7/docs/api/java/lang/NoSuchMethodException.html?is-external=true) - if there is no such accessible method [InvocationTargetException](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/InvocationTargetException.html?is-external=true) - wraps an exception thrown by the method invoked [IllegalAccessException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalAccessException.html?is-external=true) - if the requested method is not accessible via reflection Since: 1.8.0

#### getAccessibleMethod public static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getAccessibleMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterType) Return an accessible method (that is, one that can be invoked via reflection) with given name and a single parameter. If no such method can be found, return null. Basically, a convenience wrapper that constructs a Class array for you.Parameters: clazz - get method from this class methodName - get method with this name parameterType - taking this type of parameter Returns: The accessible method

#### getAccessibleMethod public static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getAccessibleMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Return an accessible method (that is, one that can be invoked via reflection) with given name and parameters. If no such method can be found, return null. This is just a convenient wrapper for [getAccessibleMethod(Method method)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#getAccessibleMethod-java.lang.reflect.Method-).Parameters: clazz - get method from this class methodName - get method with this name parameterTypes - with these parameters types Returns: The accessible method

#### getAccessibleMethod public static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getAccessibleMethod([Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) method) Return an accessible method (that is, one that can be invoked via reflection) that implements the specified Method. If no such method can be found, return null.Parameters: method - The method that we wish to call Returns: The accessible method

#### getAccessibleMethod public static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getAccessibleMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) method) Return an accessible method (that is, one that can be invoked via reflection) that implements the specified Method. If no such method can be found, return null.Parameters: clazz - The class of the object method - The method that we wish to call Returns: The accessible method Since: 1.8.0

#### getMatchingAccessibleMethod public static [Method](https://docs.oracle.com/javase/7/docs/api/java/lang/reflect/Method.html?is-external=true) getMatchingAccessibleMethod([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) methodName, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?>[] parameterTypes) Find an accessible method that matches the given name and has compatible parameters. Compatible parameters mean that every method parameter is assignable from the given parameters. In other words, it finds a method with the given name that will take the parameters given. This method is slightly undeterministic since it loops through methods names and return the first matching method. This method is used by [invokeMethod(Object object,String methodName,Object [] args,Class[] parameterTypes)](http://docs.google.com/org/apache/commons/beanutils/MethodUtils.html#invokeMethod-java.lang.Object-java.lang.String-java.lang.Object:A-java.lang.Class:A-). This method can match primitive parameter by passing in wrapper classes. For example, a Boolean will match a primitive boolean parameter.Parameters: clazz - find method in this class methodName - find method with this name parameterTypes - find method with compatible parameters Returns: The accessible method

#### isAssignmentCompatible public static final boolean isAssignmentCompatible([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterType, [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> parameterization) Determine whether a type can be used as a parameter in a method invocation. This method handles primitive conversions correctly. In order words, it will match a Boolean to a boolean, a Long to a long, a Float to a float, a Integer to a int, and a Double to a double. Now logic widening matches are allowed. For example, a Long will not match a int.Parameters: parameterType - the type of parameter accepted by the method parameterization - the type of parameter being tested Returns: true if the assignment is compatible.

#### getPrimitiveWrapper public static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getPrimitiveWrapper([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> primitiveType) Gets the wrapper object class for the given primitive type class. For example, passing boolean.class returns Boolean.classParameters: primitiveType - the primitive type class for which a match is to be found Returns: the wrapper type associated with the given primitive or null if no match is found

#### getPrimitiveType public static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> getPrimitiveType([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> wrapperType) Gets the class for the primitive type corresponding to the primitive wrapper class given. For example, an instance of Boolean.class returns a boolean.class.Parameters: wrapperType - the Returns: the primitive type class corresponding to the given wrapper class, null if no match is found

#### toNonPrimitiveClass public static [Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> toNonPrimitiveClass([Class](https://docs.oracle.com/javase/7/docs/api/java/lang/Class.html?is-external=true)<?> clazz) Find a non primitive representation for given primitive class.Parameters: clazz - the class to find a representation for, not null Returns: the original class if it not a primitive. Otherwise the wrapper class. Not null

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