| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InvocationHandler.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/lang/reflect/GenericSignatureFormatError.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/reflect/InvocationTargetException.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/reflect/InvocationHandler.html)    [**NO FRAMES**](http://docs.google.com/InvocationHandler.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **java.lang.reflect**

Interface InvocationHandler

**All Known Implementing Classes:** [CompositeDataInvocationHandler](http://docs.google.com/javax/management/openmbean/CompositeDataInvocationHandler.html), [EventHandler](http://docs.google.com/java/beans/EventHandler.html), [MBeanServerInvocationHandler](http://docs.google.com/javax/management/MBeanServerInvocationHandler.html), [RemoteObjectInvocationHandler](http://docs.google.com/java/rmi/server/RemoteObjectInvocationHandler.html)

public interface **InvocationHandler**

InvocationHandler is the interface implemented by the *invocation handler* of a proxy instance.

Each proxy instance has an associated invocation handler. When a method is invoked on a proxy instance, the method invocation is encoded and dispatched to the invoke method of its invocation handler.

**Since:** 1.3 **See Also:**[Proxy](http://docs.google.com/java/lang/reflect/Proxy.html)

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**invoke**](http://docs.google.com/java/lang/reflect/InvocationHandler.html#invoke(java.lang.Object,%20java.lang.reflect.Method,%20java.lang.Object%5B%5D))([Object](http://docs.google.com/java/lang/Object.html) proxy, [Method](http://docs.google.com/java/lang/reflect/Method.html) method, [Object](http://docs.google.com/java/lang/Object.html)[] args)            Processes a method invocation on a proxy instance and returns the result. |

| **Method Detail** |
| --- |

### invoke

[Object](http://docs.google.com/java/lang/Object.html) **invoke**([Object](http://docs.google.com/java/lang/Object.html) proxy,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) method,  
 [Object](http://docs.google.com/java/lang/Object.html)[] args)  
 throws [Throwable](http://docs.google.com/java/lang/Throwable.html)

Processes a method invocation on a proxy instance and returns the result. This method will be invoked on an invocation handler when a method is invoked on a proxy instance that it is associated with.

**Parameters:**proxy - the proxy instance that the method was invoked onmethod - the Method instance corresponding to the interface method invoked on the proxy instance. The declaring class of the Method object will be the interface that the method was declared in, which may be a superinterface of the proxy interface that the proxy class inherits the method through.args - an array of objects containing the values of the arguments passed in the method invocation on the proxy instance, or null if interface method takes no arguments. Arguments of primitive types are wrapped in instances of the appropriate primitive wrapper class, such as java.lang.Integer or java.lang.Boolean. **Returns:**the value to return from the method invocation on the proxy instance. If the declared return type of the interface method is a primitive type, then the value returned by this method must be an instance of the corresponding primitive wrapper class; otherwise, it must be a type assignable to the declared return type. If the value returned by this method is null and the interface method's return type is primitive, then a NullPointerException will be thrown by the method invocation on the proxy instance. If the value returned by this method is otherwise not compatible with the interface method's declared return type as described above, a ClassCastException will be thrown by the method invocation on the proxy instance. **Throws:** [Throwable](http://docs.google.com/java/lang/Throwable.html) - the exception to throw from the method invocation on the proxy instance. The exception's type must be assignable either to any of the exception types declared in the throws clause of the interface method or to the unchecked exception types java.lang.RuntimeException or java.lang.Error. If a checked exception is thrown by this method that is not assignable to any of the exception types declared in the throws clause of the interface method, then an [UndeclaredThrowableException](http://docs.google.com/java/lang/reflect/UndeclaredThrowableException.html) containing the exception that was thrown by this method will be thrown by the method invocation on the proxy instance.**See Also:**[UndeclaredThrowableException](http://docs.google.com/java/lang/reflect/UndeclaredThrowableException.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InvocationHandler.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/lang/reflect/GenericSignatureFormatError.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/reflect/InvocationTargetException.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/reflect/InvocationHandler.html)    [**NO FRAMES**](http://docs.google.com/InvocationHandler.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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