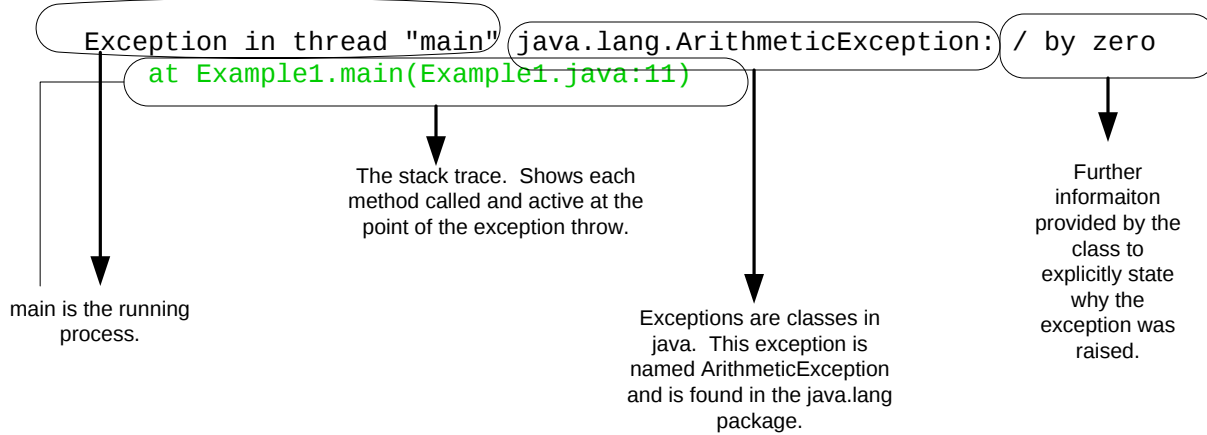
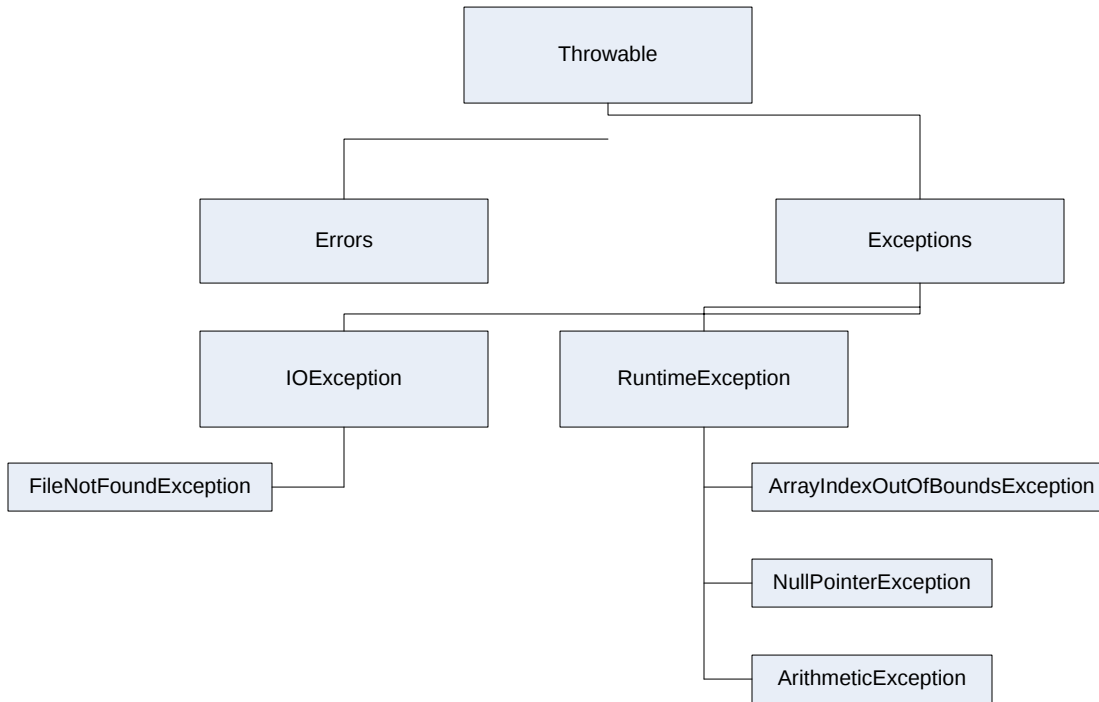


An Overview of Exceptions in Java

Reading an exception message



Exception Class Categories



There are two kinds of exceptions, checked and unchecked. All exceptions that you have seen thus far have been unchecked exceptions. Unchecked exceptions are in the category of `RuntimeException`. All other exceptions are checked exceptions.

java.lang

Class Exception

[java.lang.Object](#)

└ [java.lang.Throwable](#)

└ [java.lang.Exception](#)

All Implemented Interfaces:

[Serializable](#)

Direct Known Subclasses:

[AclNotFoundException](#), [ActivationException](#), [AlreadyBoundException](#), [ApplicationException](#), [AWTException](#), [BackingStoreException](#), [BadAttributeValueExpException](#), [BadBinaryOpValueExpException](#), [BadLocationException](#), [BadStringOperationException](#), [BrokenBarrierException](#), [CertificateException](#), [ClassNotFoundException](#), [CloneNotSupportedException](#), [DataFormatException](#), [DatatypeConfigurationException](#), [DestroyFailedException](#), [ExecutionException](#), [ExpandVetoException](#), [FontFormatException](#), [GeneralSecurityException](#), [GSSEException](#), [IllegalAccessException](#), [IllegalClassFormatException](#), [InstantiationException](#), [InterruptedException](#), [IntrospectionException](#), [InvalidApplicationException](#), [InvalidMidiDataException](#), [InvalidPreferencesFormatException](#), [InvalidTargetObjectTypeException](#), [InvocationTargetException](#), [IOException](#), [JAXBException](#), [JMEException](#), [KeySelectorException](#), [LastOwnerException](#), [LineUnavailableException](#), [MarshalException](#), [MidiUnavailableException](#), [MimeTypeParseException](#), [MimeTypeParseException](#), [NamingException](#), [NoninvertibleTransformException](#), [NoSuchFieldException](#), [NoSuchMethodException](#), [NotBoundException](#), [NotOwnerException](#), [ParseException](#), [ParserConfigurationException](#), [PrinterException](#), [PrintException](#), [PrivilegedActionException](#), [PropertyVetoException](#), [RefreshFailedException](#), [RemarshalException](#), [RuntimeException](#), [SAXException](#), [ScriptException](#), [ServerNotActiveException](#), [SOAPException](#), [SQLException](#), [TimeoutException](#), [TooManyListenersException](#), [TransformerException](#), [TransformException](#), [UnmodifiableClassException](#), [UnsupportedAudioFileException](#), [UnsupportedCallbackException](#), [UnsupportedFlavorException](#), [UnsupportedLookAndFeelException](#), [URIReferenceException](#), [URISyntaxException](#), [UserException](#), [XAException](#), [XMLParseException](#), [XMLSignatureException](#), [XMLStreamException](#), [XPathException](#)

```
public class Exception
extends Throwable
```

The class Exception and its subclasses are a form of Throwable that indicates conditions that a reasonable application might want to catch.

Since:

JDK1.0

See Also:

[Error](#), [Serialized Form](#)

Constructor Summary

[Exception](#) ()

Constructs a new exception with null as its detail message.

[Exception](#) ([String](#) message)

Constructs a new exception with the specified detail message.

[Exception](#) ([String](#) message, [Throwable](#) cause)

Constructs a new exception with the specified detail message and cause.

Exception([Throwable](#) cause)

Constructs a new exception with the specified cause and a detail message of (cause==null ? null : cause.toString()) (which typically contains the class and detail message of cause).

Method Summary

Methods inherited from class [java.lang.Throwable](#)

[fillInStackTrace](#), [getCause](#), [getLocalizedMessage](#), [getMessage](#), [getStackTrace](#), [initCause](#), [printStackTrace](#), [printStackTrace](#), [printStackTrace](#), [setStackTrace](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

Exception

public **Exception**()

Constructs a new exception with null as its detail message. The cause is not initialized, and may subsequently be initialized by a call to [Throwable.initCause\(java.lang.Throwable\)](#).

Exception

public **Exception**([String](#) message)

Constructs a new exception with the specified detail message. The cause is not initialized, and may subsequently be initialized by a call to [Throwable.initCause\(java.lang.Throwable\)](#).

Parameters:

message - the detail message. The detail message is saved for later retrieval by the [Throwable.getMessage\(\)](#) method.

Exception

public **Exception**([String](#) message,
[Throwable](#) cause)

Constructs a new exception with the specified detail message and cause.

Note that the detail message associated with cause is *not* automatically incorporated in this exception's detail message.

Parameters:

message - the detail message (which is saved for later retrieval by the [Throwable.getMessage\(\)](#) method).

cause - the cause (which is saved for later retrieval by the [Throwable.getCause\(\)](#) method). (A null value is permitted, and indicates that the cause is nonexistent or unknown.)

Since:

1.4

Exception

public **Exception**([Throwable](#) cause)

Constructs a new exception with the specified cause and a detail message of (cause==null ? null : cause.toString()) (which typically contains the class and detail message of cause). This constructor is useful for exceptions that are little more than wrappers for other throwables (for example, [PrivilegedActionException](#)).

Parameters:

cause - the cause (which is saved for later retrieval by the [Throwable.getCause\(\)](#) method). (A null value is permitted, and indicates that the cause is nonexistent or unknown.)

Since:

1.4