| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PatternSyntaxException.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/util/regex/Pattern.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/util/regex/PatternSyntaxException.html)    [**NO FRAMES**](http://docs.google.com/PatternSyntaxException.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **java.util.regex**

Class PatternSyntaxException

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.lang.Throwable](http://docs.google.com/java/lang/Throwable.html)  
 [java.lang.Exception](http://docs.google.com/java/lang/Exception.html)  
 [java.lang.RuntimeException](http://docs.google.com/java/lang/RuntimeException.html)  
 [java.lang.IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)  
 **java.util.regex.PatternSyntaxException**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **PatternSyntaxException**extends [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Unchecked exception thrown to indicate a syntax error in a regular-expression pattern.

**Since:** 1.4 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.util.regex.PatternSyntaxException)

| **Constructor Summary** | |
| --- | --- |
| [**PatternSyntaxException**](http://docs.google.com/java/util/regex/PatternSyntaxException.html#PatternSyntaxException(java.lang.String,%20java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) desc, [String](http://docs.google.com/java/lang/String.html) regex, int index)            Constructs a new instance of this class. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getDescription**](http://docs.google.com/java/util/regex/PatternSyntaxException.html#getDescription())()            Retrieves the description of the error. |
| int | [**getIndex**](http://docs.google.com/java/util/regex/PatternSyntaxException.html#getIndex())()            Retrieves the error index. |
| [String](http://docs.google.com/java/lang/String.html) | [**getMessage**](http://docs.google.com/java/util/regex/PatternSyntaxException.html#getMessage())()            Returns a multi-line string containing the description of the syntax error and its index, the erroneous regular-expression pattern, and a visual indication of the error index within the pattern. |
| [String](http://docs.google.com/java/lang/String.html) | [**getPattern**](http://docs.google.com/java/util/regex/PatternSyntaxException.html#getPattern())()            Retrieves the erroneous regular-expression pattern. |

| **Methods inherited from class java.lang.**[**Throwable**](http://docs.google.com/java/lang/Throwable.html) |
| --- |
| [fillInStackTrace](http://docs.google.com/java/lang/Throwable.html#fillInStackTrace()), [getCause](http://docs.google.com/java/lang/Throwable.html#getCause()), [getLocalizedMessage](http://docs.google.com/java/lang/Throwable.html#getLocalizedMessage()), [getStackTrace](http://docs.google.com/java/lang/Throwable.html#getStackTrace()), [initCause](http://docs.google.com/java/lang/Throwable.html#initCause(java.lang.Throwable)), [printStackTrace](http://docs.google.com/java/lang/Throwable.html#printStackTrace()), [printStackTrace](http://docs.google.com/java/lang/Throwable.html#printStackTrace(java.io.PrintStream)), [printStackTrace](http://docs.google.com/java/lang/Throwable.html#printStackTrace(java.io.PrintWriter)), [setStackTrace](http://docs.google.com/java/lang/Throwable.html#setStackTrace(java.lang.StackTraceElement%5B%5D)), [toString](http://docs.google.com/java/lang/Throwable.html#toString()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### PatternSyntaxException

public **PatternSyntaxException**([String](http://docs.google.com/java/lang/String.html) desc,  
 [String](http://docs.google.com/java/lang/String.html) regex,  
 int index)

Constructs a new instance of this class.

**Parameters:**desc - A description of the errorregex - The erroneous patternindex - The approximate index in the pattern of the error, or -1 if the index is not known

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

### getIndex

public int **getIndex**()

Retrieves the error index.

**Returns:**The approximate index in the pattern of the error, or -1 if the index is not known

### getDescription

public [String](http://docs.google.com/java/lang/String.html) **getDescription**()

Retrieves the description of the error.

**Returns:**The description of the error

### getPattern

public [String](http://docs.google.com/java/lang/String.html) **getPattern**()

Retrieves the erroneous regular-expression pattern.

**Returns:**The erroneous pattern

### getMessage

public [String](http://docs.google.com/java/lang/String.html) **getMessage**()

Returns a multi-line string containing the description of the syntax error and its index, the erroneous regular-expression pattern, and a visual indication of the error index within the pattern.

**Overrides:**[getMessage](http://docs.google.com/java/lang/Throwable.html#getMessage()) in class [Throwable](http://docs.google.com/java/lang/Throwable.html) **Returns:**The full detail message

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PatternSyntaxException.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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[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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