[all classes] [<empty package name>]

Coverage Summary for Class: RegexValidator (<empty package name>)

Class	Class, %	Method, %	Line, %
RegexValidator	100% (1/ 1)	62.5% (5/ 8)	46.2% (24/ 52)

```
1 /*
  2
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 15
     * limitations under the License.
 16
 17
 18
 19 import java.io.Serializable;
 20 import java.util.regex.Pattern;
 21 import java.util.regex.Matcher;
 22
    /**
 23
 24
* <b>Regular Expression</b> validation (using JDK 1.4+ regex support).
25
* Construct the validator either for a single regular expression or a set (array) of
* regular expressions. By default validation is <i>case sensitive</i> but construct
* are provided to allow <i>case in-sensitive</i> validation. For example to create
29
* a validator which does <i>case in-sensitive</i> validation for a set of regular
 30
     * expressions:
     * 
 31
 32
               String[] regexs = new String[] {...};
 33
          RegexValidator validator = new RegexValidator(regexs, false);
 34
     * 
     * 
 35
     * 
 36
         Validate <code>true</code> or <code>false</code>:
 37
```

```
38
     * <111>
39
     <code>boolean valid = validator.isValid(value);</code>
 40
         41
   Validate returning an aggregated String of the matched groups:
42
         <l
43
     <code>String result = validator.validate(value):</code>
 44
         Validate returning the matched groups:
 45
 46
         <l
 47
     <code>String[] result = validator.match(value);</code>
 48
         49
     * 
 50
     * 
51
* Cached instances pre-compile and re-use {@link Pattern}(s) - which according
* to the {@link Pattern} API are safe to use in a multi-threaded environment.
53
 54
* @version $Revision: 1227719 $ $Date: 2012-01-05 09:45:51 -0800 (Thu, 05 Jan 2012)
 55
     * @since Validator 1.4
 56
   public class RegexValidator implements Serializable {
 57
 58
 59
  private static final long serialVersionUID = -8832409930574867162L;
 60
 61
        private final Pattern[] patterns;
 62
        /**
63
         * Construct a <i>case sensitive</i> validator for a single
 64
         * regular expression.
 65
 66
         * @param regex The regular expression this validator will
 67
         * validate against
 68
         * /
 69
 70
        public RegexValidator(String regex) {
            this(regex, true);
 72
        }
 73
 74
        /**
 75
         * Construct a validator for a single regular expression
         * with the specified case sensitivity.
 76
 77
 78
         * @param regex The regular expression this validator will
 79
         * validate against
 80
   * @param caseSensitive when <code>true</code> matching is <i>case
 81
         * sensitive</i>, otherwise matching is <i>case in-sensitive</i>
 82
 83
        public RegexValidator(String regex, boolean caseSensitive) {
            this(new String[] {regex}, caseSensitive);
 85
        }
 86
        /**
 87
 88
   * Construct a <i>case sensitive</i> validator that matches any one
```

```
89
          * of the set of regular expressions.
 90
 91
    * @param regexs The set of regular expressions this validator will
 92
          * validate against
 93
 94
         public RegexValidator(String[] regexs) {
             this(regexs, true);
 96
 97
         /**
 98
    * Construct a validator that matches any one of the set of regular
          * expressions with the specified case sensitivity.
100
101
102
    * @param regexs The set of regular expressions this validator will
103
          * validate against
104
    * @param caseSensitive when <code>true</code> matching is <i>case
105
          * sensitive</i>, otherwise matching is <i>case in-sensitive</i>
106
         public RegexValidator(String[] regexs, boolean caseSensitive) {
            if (regexs == null || regexs.length == 0) {
           throw new IllegalArgumentException("Regular expressions are missing");
110
             patterns = new Pattern[regexs.length];
             int flags = (caseSensitive ? 0: Pattern.CASE INSENSITIVE);
             for (int i = 0; i < regexs.length; i++) {</pre>
                 if (regexs[i] == null || regexs[i].length() == 0) {
               throw new IllegalArgumentException("Regular expression[" + i + "] is
116
                 }
                 patterns[i] = Pattern.compile(regexs[i], flags);
118
             }
119
         }
120
121
122
         * Validate a value against the set of regular expressions.
123
124
          * @param value The value to validate.
          * @return <code>true</code> if the value is valid
125
126
          * otherwise <code>false</code>.
127
          * /
128
         public boolean isValid(String value) {
             if (value == null) {
                return false:
131
             }
             for (int i = 0; i < patterns.length; i++) {</pre>
                 if (patterns[i].matcher(value).matches()) {
                     return true:
135
                 }
136
             return false;
138
         }
139
         /**
140
         * Validate a value against the set of regular expressions
141
          * returning the array of matched groups.
142
143
```

```
144
          * @param value The value to validate.
145
          * @return String array of the <i>groups</i>
146
          * valid or <code>null</code> if invalid
         * /
147
148
        public String[] match(String value) {
             if (value == null) {
                 return null;
151
             for (int i = 0; i < patterns.length; i++) {</pre>
                 Matcher matcher = patterns[i].matcher(value);
                 if (matcher.matches()) {
                     int count = matcher.groupCount();
                     String[] groups = new String[count];
                     for (int j = 0; j < count; j++) {
                         groups[j] = matcher.group(j+1);
159
                     return groups;
161
                 }
162
            }
             return null;
164
        }
165
166
167
168
         * Validate a value against the set of regular expressions
169
          * returning a String value of the aggregated groups.
170
171
          * @param value The value to validate.
172
          * @return Aggregated String value comprised of the
173
    * <i>groups</i> matched if valid or <code>null</code> if invalid
174
         * /
175
        public String validate(String value) {
             if (value == null) {
                 return null;
178
            }
             for (int i = 0; i < patterns.length; i++) {</pre>
                 Matcher matcher = patterns[i].matcher(value);
                 if (matcher.matches()) {
                     int count = matcher.groupCount();
                     if (count == 1) {
                         return matcher.group(1);
185
                     StringBuffer buffer = new StringBuffer();
                     for (int j = 0; j < count; j++) {
                         String component = matcher.group(j+1);
                         if (component != null) {
                             buffer.append(component);
191
                         }
192
                     return buffer.toString();
194
                 }
195
            }
            return null;
197
        }
198
199
         /**
200
          * Provide a String representation of this validator.
         * @return A String representation of this validator
201
         * /
202
203
        public String toString() {
```

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