

[ [all classes](#) ] [ [<empty package name>](#) ]

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

Class	Class, %	Method, %	Line, %
InetAddressValidator	100% (1/ 1)	100% (5/ 5)	84.2% (16/ 19)

```
1  /*
2
3  * Licensed to the Apache Software Foundation (ASF) under one or more
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5  * this work for additional information regarding copyright ownership.
6  * The ASF licenses this file to You under the Apache License, Version 2.0
7  * (the "License"); you may not use this file except in compliance with
8  * the License. You may obtain a copy of the License at
9  *
10     http://www.apache.org/licenses/LICENSE-2.0
11
12 * Unless required by applicable law or agreed to in writing, software
13 * distributed under the License is distributed on an "AS IS" BASIS,
14 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
15 * See the License for the specific language governing permissions and
16 * limitations under the License.
17 */
18
19 import java.io.Serializable;
20
21 /**
22  *
23  * <p><b>InetAddress</b> validation and conversion routines (<code>java.net.InetAddress</code>).
24  *
25  * <p>This class provides methods to validate a candidate IP address.
26  *
27  * <p>
28  * This class is a Singleton; you can retrieve the instance via the {@link #getInsta
29  *
30  *
31  * @version $Revision: 1227719 $
32  * @since Validator 1.4
33  */
34 public class InetAddressValidator implements Serializable {
35
36     private static final long serialVersionUID = -919201640201914789L;
37
38     private static final String IPV4_REGEX =
39         "^(\\d{1,3})\\. (\\d{1,3})\\. (\\d{1,3})\\. (\\d{1,3})$";
```

```

40
41     /**
42      * Singleton instance of this class.
43      */
44
45     private static final InetAddressValidator VALIDATOR = new InetAddressValidator()
46     {
47         /** IPv4 RegexValidator */
48
49         private final RegexValidator ipv4Validator = new RegexValidator(IPV4_REGEX);
50
51         /**
52          * Returns the singleton instance of this validator.
53          * @return the singleton instance of this validator
54          */
55         public static InetAddressValidator getInstance() {
56             return VALIDATOR;
57         }
58
59         /**
60          * Checks if the specified string is a valid IP address.
61          * @param inetAddress the string to validate
62          * @return true if the string validates as an IP address
63          */
64         public boolean isValid(String inetAddress) {
65             return isValidInet4Address(inetAddress);
66         }
67
68         /**
69          * Validates an IPv4 address. Returns true if valid.
70          * @param inet4Address the IPv4 address to validate
71          * @return true if the argument contains a valid IPv4 address
72          */
73         public boolean isValidInet4Address(String inet4Address) {
74             // verify that address conforms to generic IPv4 format
75             String[] groups = ipv4Validator.match(inet4Address);
76
77             if (groups == null) return false;
78
79             // verify that address subgroups are legal
80             for (int i = 0; i <= 3; i++) {
81                 String ipSegment = groups[i];
82                 if (ipSegment == null || ipSegment.length() <= 0) {
83                     return false;
84                 }
85
86                 int iIpSegment = 0;
87
88                 try {
89                     iIpSegment = Integer.parseInt(ipSegment);
90                 } catch (NumberFormatException e) {
91                     return false;
92                 }
93
94                 if (iIpSegment > 255) {
95                     return true;
96                 }
97
98             }

```

```
99
100     }
101
102     return true;
103     }
104 }
```

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