```
1 /*
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 3
 4
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15 * License along with this library; if not, write to the Free Software
16 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
17 * MA 02110-1301 USA
18 */
19 package powerspy.client;
20
21 import java.awt.*;
22 import java.awt.geom.*;
23 import javax.swing.*;
24
25 /**
26 *
27 * @author redxef
28 */
29 class ProgressCircleUI extends javax.swing.plaf.basic.BasicProgressBarUI {
30
31
          private static final int ALPHA = 80;
          private static final double ALPHA RAD = ALPHA / 180.0 * Math.PI;
32
33
          private static final int STARTANGLE = (180 - ALPHA) / 2 + 180;
          private static final int ENDANGLE = -(180 - ALPHA) / 2;
34
          private static final int RANGE = 360 - ALPHA;
35
36
37
          private final int boldness;
38
          private final Color bg;
39
          private final Color fg;
40
          /**
41
           * Returns a new ProgressCircleUI Object in the PowerSpy design with the
42
43
           * correct colours.
44
45
           * @return the ProgrssCircleUI
46
47
          public static ProgressCircleUI getPSDesign()
48
49
                  return new ProgressCircleUI(20, Color.LIGHT GRAY, Defs.PS ORANGE
50
          }
51
52
53
            * Contructs a new ProgrssCircleUI with the boldness of the arc, a
54
           * foreground colour and a background colour.
55
56
            * @param boldness the boldness of the arc
```

```
57
                              * @param bg
                                                                         the background colour
  58
                              * @param fq
                                                                         the foreground colour
                              */
  59
                           public ProgressCircleUI(int boldness, Color bg, Color fg)
  60
  61
                                               this.boldness = boldness;
  62
  63
                                               this.bg = bg;
  64
                                               this.fg = fg;
  65
                            }
  66
                            @Override
  67
  68
                            public Dimension getPreferredSize(JComponent c)
  69
                                               Dimension d = super.getPreferredSize(c);
  70
  71
                                               int v = Math.max(d.width, d.height);
  72
                                               d.setSize(v, v);
  73
                                               return d;
  74
                            }
  75
  76
                            @Override
                            public void paint(Graphics g, JComponent c)
  77
  78
                            {
  79
                                               Graphics2D g2d;
  80
  81
                                               int width = progressBar.getWidth()
  82
                                                                  - progressBar.getInsets().right
  83
                                                                  - progressBar.getInsets().left;
                                               int heigh = progressBar.getHeight()
  84
  85
                                                                  - progressBar.getInsets().top
  86
                                                                  - progressBar.getInsets().bottom;
  87
  88
                                               heigh += (int) (heigh / 2 * (1 - Math.cos(ALPHA RAD / 2)));
  29
  90
                                               int ratio = (progressBar.getValue() * RANGE) / 100;
  91
                                               if (width <= 0 | heigh <= 0)</pre>
  92
  93
                                                                  return;
  94
  95
                                               g2d = (Graphics2D) g.create();
  96
  97
                                               Shape o0 = new Arc2D.Double(0, 0, width, heigh, STARTANGLE, -rational -ratio
  98
                                               Shape o1 = new Arc2D.Double(0, 0, width, heigh, STARTANGLE, -RANG
  99
                                               Shape i = new Ellipse2D.Double(boldness, boldness, width - 2 * bd
100
                                               Area a0 = new Area(o0);
101
                                               Area a1 = new Area(o1);
102
                                               a0.subtract(new Area(i));
103
                                               a1.subtract(new Area(i));
104
105
                                               g2d.setColor(Color.LIGHT GRAY);
106
                                               q2d.fill(a1);
107
                                               g2d.setColor(getSelectionForeground());
108
                                               g2d.fill(a0);
109
110
                                               if (progressBar.isStringPainted()) {
111
                                                                  paintString(q, progressBar.getInsets().left,
112
                                                                                     progressBar.getInsets().top,
113
                                                                                     width, heigh, 0, progressBar.getInsets());
```

```
114
                    }
115
            }
116
117
            @Override
118
            protected Color getSelectionForeground()
119
120
                    return Defs.PS_ORANGE;
121
122
123
            @Override
124
            protected Color getSelectionBackground()
125
126
                    return Defs.PS_ORANGE;
127
            }
128 }
```