TetrisGamePanel.java

```
1 /*
 2 * TCSS 305 - Autumn 2016
 3 * Assignment 6a - Tetris
4 */
 5
 6 package view;
 8 import java.awt.Color;
22
23 /**
24 * The game panel were the blocks will be shown on.
25 *
26 * @author Leah Ruisenor
27 * @version December 2016.
28 */
29 public class TetrisGamePanel extends JPanel implements Observer {
30
      /** Serialization. */
31
      private static final long serialVersionUID = 1159971900757430935L;
32
33
34
      /** Constant for calculating shifts. */
35
      private static final int FIVE = 5;
36
37
      /** Constant for calculating shifts. */
38
      private static final int THIRTY = 30;
39
40
      /** Constant for calculating shifts. */
      private static final int FOURTY = 40;
41
42
43
      /** A list of blocks for drawing the tetris pieces. */
44
      private final List<Block[]> myBlockList;
45
46
47
       * Constructs the tetris board.
48
49
      public TetrisGamePanel() {
50
          super();
51
          myBlockList = new ArrayList<Block[]>();
52
          setBackground(Color.YELLOW.darker().darker());
53
      }
54
      /**
55
56
       * Draws tetris pieces on the game panel.
57
58
       * {@inheritDoc}
       */
59
60
      @Override
      protected void paintComponent(final Graphics theGraphics) {
61
62
          super.paintComponent(theGraphics);
63
          final Graphics2D g2d = (Graphics2D) theGraphics;
64
          g2d.setPaint(Color.YELLOW.darker().darker().darker());
```

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```
65
            //System.out.print(getPreferredSize());
 66
 67
            // blockScale will be 20, 30, or 40
 68
            final int blockScale = getWidth() / 10;
 69
            int tinyBlockScale = FIVE; // 5
 70
            if (blockScale == THIRTY) {
                tinyBlockScale = FIVE + 2; // 7
 71
 72
            } else if (blockScale == FOURTY) {
 73
                tinyBlockScale = FIVE * 2 - 1; // 9
 74
            }
 75
 76
            for (int i = 0; i < myBlockList.size(); i++) {</pre>
 77
 78
                final Block[] blocks = myBlockList.get(i);
 79
 80
                for (int j = 0; j < blocks.length; <math>j++) {
                    final Point pt = new Point(j * blockScale, i * blockScale);
 81
 82
 83
                    g2d.setPaint(Color.YELLOW.darker().darker().darker());
 84
                    if (blocks[j] != null) {
 85
                        g2d.fill(new Rectangle2D.Double(pt.x(),
 86
                                                          getHeight() - pt.y() -
   blockScale,
 87
                                                          blockScale, blockScale));
 88
                        g2d.setPaint(Color.BLACK);
 89
                        g2d.drawRect(pt.x(), getHeight() - pt.y() - blockScale,
 90
                                      blockScale, blockScale);
                        g2d.setPaint(Color.YELLOW.darker().darker());
 91
 92
                        q2d.fillRect(pt.x() + tinyBlockScale, getHeight() - pt.y() -
   blockScale
 93
                                      / 2 - tinyBlockScale, blockScale / 2,
   blockScale / 2);
 94
                        g2d.setPaint(Color.BLACK);
                        g2d.drawRect(pt.x() + tinyBlockScale, getHeight() - pt.y() -
 95
   blockScale
 96
                                      / 2 - tinyBlockScale, blockScale / 2,
   blockScale / 2);
97
 98
                }
 99
            }
100
       }
101
102
        * Getting the data for the tetris game board.
103
104
105
         * {@inheritDoc}
        * /
106
107
       @Override
       public void update(final Observable theObservable, final Object theData) {
108
109
            if (theObservable instanceof Board && theData instanceof List) {
110
```

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