Slider Example

```
import java.awt.*;
import java.awt.geom.*;
import javax.swing.*;
import javax.swing.event.*;
/** Class to make an Icon - you could instead use a pre-made image */
class myIcon implements Icon{
  private int width;
  private Color myColor;
  public myIcon(int aWidth, Color c)
    width = aWidth;
    myColor = c;
  public int getIconWidth()
    return width;
                                                                                       This just creates an icon
  public int getIconHeight()
    return width;
  public void setIconWidth(int w){
    width=w;
  public void paintIcon(Component c, Graphics g, int x, int y){
    Graphics2D g2 = (Graphics2D) g;
    Ellipse2D.Double myC = new Ellipse2D.Double(0,0, width, width);
    g2.setColor(myColor);
    g2.fill(myC);
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/** Main class */
public class SliderTest
  private static final int FRAME_WIDTH = 300;
  private static final int FRAME_HEIGHT = 300;
  private static final int MIN_ICON_SIZE = 0;
  private static final int MAX_ICON_SIZE = FRAME_WIDTH;
  private static myIcon icon1;
  private static JLabel label1;
  private static JSlider zoomSlider;
  public static void main(String[] args)
    JFrame frame = new JFrame();
    frame.setSize(FRAME_WIDTH, FRAME_HEIGHT);
                                                                                          -(Outer) frame
    Container contentPane = frame.getContentPane();
    //frame.setLayout(new FlowLayout());
    frame.setLayout(new BoxLayout(contentPane, BoxLayout.Y AXIS));
```

```
zoomSlider = new JSlider(MIN_ICON_SIZE, MAX_ICON_SIZE);
  zoomSlider.addChangeListener(createZoomSliderListener());
  frame.add(zoomSlider);
  icon1 = new myIcon(MAX_ICON_SIZE, new Color(1.0f, 0.0f, 0.0f));
  label1 = new JLabel(icon1);
  JComponent box1 = new JPanel();
  box1.setLayout(new BoxLayout(box1, BoxLayout.Y_AXIS));
  JPanel panel1 = new JPanel();
  frame.add(box1);
  box1.add(panel1);
  panel1.add(label1);
  frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
  frame.pack();
                                                      Sets initial Icon size
  icon1.setIconWidth(zoomSlider.getValue());
                                                      see what happens
                                                      without this line
  frame.setVisible(true);
 Creates a change listener for a slider that changes the width of
 an icon.
public static ChangeListener createZoomSliderListener()
  return new
    ChangeListener()
       public void stateChanged(ChangeEvent event) {
         icon1.setIconWidth(zoomSlider.getValue());
         label1.repaint();
    };
```

}

Slider added to frame. Note the ChangeListener

Label with icon inside

Create a Panel within the main frame, add the label holding the icon to it. Notice that the outer fame and this panel both have Box Layouts.