

```

public class DrawPanel extends javax.swing.JPanel
{
    private int red;
    private int green;
    private int blue;
    private int alpha;

    public DrawPanel()
    {
        initComponents();
    }

    public void setRed(int red)
    {
        this.red = red;
    }

    public void setGreen(int green)
    {
        this.green = green;
    }

    public void setBlue(int blue)
    {
        this.blue = blue;
    }

    public void setAlpha(int alpha)
    {
        this.alpha = alpha;
    }

    protected void paintComponent(Graphics g)
    {
        int nbr = 20;
        int w = getWidth();
        int h = getHeight();

        // Peindre l'arrière fond
        g.setColor(Color.WHITE);
        g.fillRect(0, 0, w, h);

        // Dessiner les lignes diagonales
        g.setColor(Color.BLACK);

        double diagWidth = (double) w / nbr;
        double diagHeight = (double) h / nbr;

        for (int i=0; i<nbr; i++)
        {
            int x1 = (int) (i*diagWidth);
            int y1 = (int) (i*diagHeight);
            int x2 = (int) ((nbr-i)*diagWidth);
            int y2 = (int) ((nbr-i)*diagHeight);

            // Ligne haut-droite --> bas-gauche
            g.drawLine(x1, 0, 0, y1-1);
            g.drawLine(x1, h-1, w-1, y1-1);

            // Ligne haut-gauche --> bas-droite
            g.drawLine(x1, 0, w-1, y2-1);
            g.drawLine(0, y1, x2-1, h-1);
        }

        // Dessiner chaque carré coloré dans une des 9 zones (grille de 3x3)
        int w3 = (int) (w/3.0); // 1/3 de w
        int h3 = (int) (h/3.0); // 1/3 de h
        int w23 = (int) (2*w/3.0); // 2/3 de w
        int h23 = (int) (2*h/3.0); // 2/3 de h
        int w6 = (int) (w/6.0); // 1/6 de w
        int h6 = (int) (h/6.0); // 1/6 de h

        g.setColor(new Color(red, 0, 0, alpha));
        g.fillRect(0, 0, w3, h3);

        g.setColor(new Color(red, green, 0, alpha));
        g.fillRect(w3, 0, w3, h3);

        g.setColor(new Color(0, green, 0, alpha));
        g.fillRect(w23, 0, w3, h3);

        g.setColor(new Color(red, 0, blue, alpha));
        g.fillRect(w6, h3, w6, h3);

        g.setColor(new Color(red, green, blue, alpha));
        g.fillRect(w3, h3, w3, h3);

        g.setColor(new Color(0, green, blue, alpha));
        g.fillRect(w23, h3, w6, h3);

        g.setColor(new Color(0, 0, blue, alpha));
        g.fillRect(w3, h23, w3, h3);
    }
}
// Skipped: ... initComponents { ... }
// Variables declaration - do not modify//GEN-BEGIN:variables
// End of variables declaration//GEN-END:variables

```

```
public class MainFrame extends javax.swing.JFrame
{
    public MainFrame()
    {
        initComponents();
        updateView();
    }

    private void updateView()
    {
        drawPanel.setRed(redSlider.getValue());
        drawPanel.setGreen(greenSlider.getValue());
        drawPanel.setBlue(blueSlider.getValue());
        drawPanel.setAlpha(alphaSlider.getValue());
        repaint();
    }
    // Skipped: ... initComponents { ... }
    private void redSliderStateChanged(javax.swing.event.ChangeEvent evt) { //GEN-FIRST:event_redSliderStateChanged
        updateView();
    } //GEN-LAST:event_redSliderStateChanged

    private void greenSliderStateChanged(javax.swing.event.ChangeEvent evt) { //GEN-FIRST:event_greenSliderStateChanged
        updateView();
    } //GEN-LAST:event_greenSliderStateChanged

    private void blueSliderStateChanged(javax.swing.event.ChangeEvent evt) { //GEN-FIRST:event_blueSliderStateChanged
        updateView();
    } //GEN-LAST:event_blueSliderStateChanged

    private void alphaSliderStateChanged(javax.swing.event.ChangeEvent evt) { //GEN-FIRST:event_alphaSliderStateChanged
        updateView();
    } //GEN-LAST:event_alphaSliderStateChanged

    /**
     * @param args the command line arguments
     */
    public static void main(String args[])
    {
        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable()
        {
            public void run()
            {
                new MainFrame().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify //GEN-BEGIN:variables
    private javax.swing.JSlider alphaSlider;
    private javax.swing.JSlider blueSlider;
    private DrawPanel drawPanel;
    private javax.swing.JSlider greenSlider;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JSlider redSlider;
    // End of variables declaration //GEN-END:variables
}
```