一、源代码截图

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* cterminated, exit value: 0
                                                                                                                                                                                                                                                                                                                                                 Q + Q + | # / + | 9 | + 8 | + 10 d 0 + 0 + | m
                                                                                                                                                                          "amport java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Color;
import java.awt.Color;
import java.awt.Dimension;
import java.awt.Font;
import java.awt.Font;
import java.awt.FontMetrics;
import java.awt.Graphics;
import java.awt.Graphics;
import java.awt.Gradlayout;
import java.awt.Insets;
import java.awt.Insets;
import java.awt.Brape;
import java.awt.Brape;
import java.awt.Rectangle;
import java.awt.event.ActionListener;
import java.awt.event.ActionListener;
import java.awt.event.MouseEvent;
import java.awt.gwent.mageCobserver;
import java.awt.image.ImageCobserver;
import java.awt.image.ImageCobserver;
import java.awt.image.ImageCobserver;
import java.awt.image.ImageCobserver;
import java.awt.image.ImageCobserver;
import java.awt.image.ImageCobserver;
import java.wt.image.ImageCobserver;
import java.wt.image.ImageCobserver;
import java.wt.image.ImageCobserver;
                                                                                                                                                                                                                import java.awt.BorderLayout;
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→ Mark JRE System Library (JavaS
                                                                                                                                                                                                          import javax.swing.*;
import javax.swing.border.Border;
import javax.swing.border.LineBorder;
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oval.png
oval.png
oval.d.png
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aract nng
                                                                                                                                                                                                        public class MyFrame extends JFrame {
    static MyPanel southPanel = new MyPanel();
    static llabel southPanel = new Jlabel();
    static llabel southPanel = new Jlabel();
    static void re() {
        southPanel = new Jlabel();
        static void re() {
            southPanel = new Jlabel();
            southPanel = new MyPanel();
            southPanel = new MyPanel();
            static llabel();
            southPanel = new MyPanel();
            static llabel();
            static llabel();
            southPanel = new MyPanel();
            static llabel();
            st
                                                                                                                                                                                                                                 public static void main(string[] args) {
    MyFrame paintFrame = new MyFrame();
    paintFrame.setLayout(new BorderLayout());
    MyPanel centerPanel = new MyPanel();
    centerPanel.setBackground(new Color(255,255,255));
    cantanDamal setBandam(paul LinaBondam(paul Color(0,0,0,0),1));
    MyPanel northPanel = new MyPanel();
    northPanel.setBorder(new LineBorder(new Color(0,0,0,),1));
    MyPanel westPanel = new MyPanel();
    westPanel.setBorder(new LineBorder(new Color(0,0,0,),1));
    JMenuBar menu = new MyMenuBar();
    menu.setBackground(new Color(138,247,187));
    menu.setBackground(new Color(new Color(0,0,0,0),1));
    JMenu me1 = new JMenu["file");me1.setFont(new Font("%k",Font.BoLD,17));
    JMenu me2 = new JMenu("file");me2.setFont(new Font("%k",Font.BoLD,17));
    menu.add(me1);
    menu.add(me1);
    menu.add(me2);
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                                                                                                                                                                                                                                                                        menu.add(me2);
menu.add(me3);
                                                                                                                                                                                                                                                                      Color[] bcolors = {Color.RED,Color.GREEN,Color.BLUE,Color.YELLOW,Color.BLACK,Color.WHITE};
Color[] scolors = {Color.RED,Color.GREEN,Color.BLUE,Color.YELLOW,Color.BLACK,Color.WHITE};
Integer[] sizes = new Integer[91];
for (ant i = 9; i < sizes.length; i++) {
    sizes[i]=i+10;</pre>
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                                                                                                                                                                                                                                                                      }
JComboBox<color> boxground = new JComboBox<>(bcolors);
JComboBox<color> shapecolor = new JComboBox<>(scolors);
JComboBox(Integer> size = new JComboBox<(sizes);
MyComboBoxRender render = new MyComboBoxRender();
boxground.setRenderer(render);
shapecolor.setRenderer(render);
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a JRE System Library [Jav

b src

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                                                                                                                                                                                                                                                                      JTextArea[] margin = new JTextArea[5];
for (int i = 0; i < 5; i++) {
    margin[i] = new JTextArea();
    margin[i].setBackground(new Color(170,247,187));
    margin[i].setEditable(false);</pre>
                                                                                                                                                                                                                                                                JTextArea text = new JTextArea("");
text.setBorder(new LineBorder(new Color(0,0,0), 1));
text.setBorder(new LineBorder(new Color(0,0,0), 1));
text.setBorder(new LineBorder(new Color(0,0,0), 1));
JTextArea boxt = new JTextArea("Background color");
JTextArea shapet = new JTextArea("Shape color");
JTextArea sizet = new JTextArea("White Down Text");
JTextArea sizet = new JTextArea(" Choose TextSize");
JTextArea leftt = new JTextArea(" Choose TextSize");
Leftt.setEditable(false);
leftt.setEdorder(new LineBorder(new Color(215,240,240), 2));
textt.setEdorder(new LineBorder(new Color(0,0,0), 1));
shapet.setEditable(false);
boxt.setEdditable(false);
boxt.setEdorder(new LineBorder(new Color(0,0,0), 1));
boxt.setEdorder(new LineBorder(new Color(0,0,0), 1));
sizet.setEditable(false);
boxt.setBorder(new LineBorder(new Color(0,0,0), 1));
leftt.setBorder(new LineBorder(new Color(0,0,0), 1));
leftt.setBorder(new LineBorder(new Color(0,0,0), 1));
leftt.setBorder(new LineBorder(new Color(70,247,187));
leftt.setBorder(new Color(170,247,187));
textt.setBord(new Font("Calibri Light",Font.BOLD,20));
shapet.setFont(new Font("Calibri Light",Font.BOLD,20));
boxt.setBockground(new Color(170,247,187));
boxt.setBockground(new Color(170,247,187));
boxt.setBockground(new Color(170,247,187));
sizet.setFont(new Font("Calibri Light",Font.BOLD,20));
sizet.setFont(new Font("Calibri Light",Font.BOLD,20));
sizet.setFont(new Font("Calibri Light",Font.BOLD,20));
sizet.setFont(new Font("Calibri Light",Font.BOLD,20));
                                        a rac.png
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                                                                                                                                                                                                                                                                        sizet.setFont(new Font("Calibri Light",Font.BOLD,20));
                                                                                                                                                                                      108
                                                                                                                                                                                                                                                                      JCheckBox check = new JCheckBox();
check.setBackground(new Color(170,247,187));
check.setFact("Fill the region");
check.setFont(new Font("Calibri Light",Font.BOLD,20));

    ▲ JRE System Library (Jav.)
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                                                                                                                                                                                                                                                                  northPanel.setPreferredSize(new Dimension(1000,70));
northPanel.setPreferredSize(new Dimension(1000,70));
northPanel.setBackground(new Color(215,240,240));
northPanel.setLayout(new GridLayout(2,6,0,0));
northPanel.add(shapecolor);
northPanel.add(shapecolor);
northPanel.add(margin[0]);
northPanel.add(textt);
northPanel.add(textt);
northPanel.add(boxground);
northPanel.add(boxground);
northPanel.add(boxground);
northPanel.add(size);
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                                           text.pngtextd.png
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**Debug :: DMyFramejava :: DMy
                                                                                                                                                                                                                                                      southPanel.setBackground(new Color(170,247,187));
southPanel.setPreferredSize(new Dimension(1000,40));
southPanel.setLayout(new BorderLayout());
southPanel.add(southtext,BorderLayout.MEST);
southPanel.setBorder(new LineBorder(new Color(0,0,0), 2));
                                                                                                                                                                                                                                                        westPanel.setBackground(new Color(210,230,230));
westPanel.setPreferredSize(new Dimension(90,700));
westPanel.setLayout(new GridLayout(8,1,3,3));
westPanel.add(leftt);
                                                                                                                                                                                                                                                        check.addActionListener(new ActionListener() {
                                                                                                                                                                                                                                                                                 @Override
public void actionPerformed(ActionEvent e) {
    JCheckBox ch = (JCheckBox) e.getSource();
    if(ch.isSelected()) {
        centerPanel.select = true;
    }
}
                                                                                                                                                                                                                                                                                                           }else {
    centerPanel.select = false;
                    }
                                                                                                                                                                                                                                                                               }
                                   In the property of the propert
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                                                                                                                                                                                                                                                      });
                                                                                                                                                                                                                                                        boxground.setPreferredSize(new Dimension(50.30));
                                                                                                                                                                                                                                                        boxground.setBackground(new Color(255,255,255));
boxground.addActionListener(new ActionListener() {
                                                                                                                                                                                                                                                                                    @Override
                                                                                                                                                                                                                                                                                  public void actionPerformed(ActionEvent e) {
                                                                                                                                                                                                                                                                                                         JComboBox<Color> b = (JComboBox<Color>) e.getSource();
Color c = (Color) b.getSelectedItem();
centerPanel.setBackground(c);
                                              ovald.pngpainticon.jpeg
                                                                                                                                                                                                                                                   });
                                              arac.png
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                                                                                                                                                                                                                                                        shapecolor.setBackground(new Color(255,255,255));
shapecolor.setPreferredSize(new Dimension(50,30));
shapecolor.addActionListener(new ActionListener() {
                                              text.pngtextd.png
   size.setBackground(new Color(255,255,255));
size.setPreferredSize(new Dimension(50,30));
size.addActionListener(new ActionListener() {
                                                                                                                                                                                                                                                                           @Override
public void actionPerformed(ActionEvent e) {
   JComboBox<Integer> n = (JComboBox<Integer>) e.getSource();
   Integer m = (Integer)n.getSelectedItem();
   centerPanel.tsize = m;
                                                                                                                                                                                                                                               ImageIcon[] imageshape = new ImageIcon[12];
imageshape[0] = new ImageIcon("rac.png");imageshape[6] = new ImageIcon("racd.png");
imageshape[1] = new ImageIcon("oval.png");imageshape[7] = new ImageIcon("ovald.png");
imageshape[2] = new ImageIcon("cir.png");imageshape[8] = new ImageIcon("cir.png");
imageshape[3] = new ImageIcon("line.png");imageshape[9] = new ImageIcon("line.png");
imageshape[4] = new ImageIcon("text.png");imageshape[10] = new ImageIcon("line.png");
imageshape[5] = new ImageIcon("clear.png");imageshape[11] = new ImageIcon("clear.png");
Button[] b = new JButton[6];
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                      for (int i = 0; i < b.length; i++) {
    Integer n = i+1;
    b[i] = new JButton();
    b[i] = setText(n.toString());
    b[i] = setFont(new Font("%th",Font.BOLD,0));
    b[i] = setBonder(BorderFactory.createRaisedBevelBorder());
    b[i] = setBonder(new Color(255,255,255));
    b[i] = setBonder(new Dimension(20,20));
    b[i] = setPreferredSize(new Dimension(20,20));
    b[i] = setPreferredSize(new Dimension(20,20));
    b[i] = setPreferredSize(new ActionListener() {
        @Override</pre>
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Cerminated, exit value: 0 214
                                                                                                                                                                                                                                                                                                                          } } lse if(bb.equals("3")) {
    b[2].setBorder(BorderFactory.createLoweredBevelBorder());
    b[2].setIcon(imageshape[8]);
    for (int j = 0; j < b.length; j++) {
        if(j != 2) {
            b[j].setBorder(BorderFactory.createRaisedBevelBorder());
            b[j].setIcon(imageshape[j]);
        }
}</pre>
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- cir.png
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                                                                                                                                                                                                                                                                                                                            } | Selse if(bb.equals("4")) {
    b[3].setBonder(BorderFactory.createLoweredBevelBorder());
    b[3].setIcon(imageshape[9]);
    for (int j = 0; j < b.length; j++) {
        if(j != 3) {
            b[j].setBorder(BorderFactory.createRaisedBevelBorder());
            b[j].setIcon(imageshape[j]);
        }
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}
| else if(bb.equals("6")) {
| b[5].setBorder(BorderFactory.createLoweredBevelBorder());
| b[5].setIcon(imageshape[11]);
| for (int j = 0; j \ b.length; j++) {
| if(j!=5) {
| hfil.setBorder(BorderFactory.createRaisedBevelBorder());
| b[6] | hfil.setBorder(BorderFactory.createRaisedBevelBorder());
| b[7] | hfil.setBorder(BorderFactory.createRaisedBevelBorder());
| hfil.setBorder(BorderFactory.createRaisedBevelBorder());
| b[7] | hfil.setBorder() hfil.
                                                                                                                                                                                                                    .J := ɔ) {
b[j].setBorder(BorderFactory.createRaisedBeveLBorder());
b[j].setIcon(imageshape[j]);
                                                                                                                                                                                                      }
                                                                                                                                                                                        }
                                                                                                                                                                             }
String str = e.getActionCommand();
String tmp = text.getText();
centerPanel.s = str;
centerPanel.strt = tmp;
if(str.equals("6")) {
    centerPanel.clear();
    centerPanel.clear();
}
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       }
                                                                                                                                               }
});
westPanel.add(b[i]);
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▲ JRE System Library [Jav
                                                                                                                                   westPanel.add(margin[4]);
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}
                                                                                                                                  paintFrame.add(centerPanel,BorderLayout.CENTER);
paintFrame.add(northPanel,BorderLayout.NORTH);
paintFrame.add(westPanel,BorderLayout.MEST);
paintFrame.add(southPanel,BorderLayout.SOUTH);
                                                                                                                                 paintFrame.setBackground(new Color(255,255,250));
paintFrame.setBounds(250, 100, 1000, 700);
paintFrame.setIMenuBar(menu);
paintFrame.setLonimage(new ImageIcon("painticon.jpeg").getImage());
paintFrame.setTitle("MyPaint Tool");
paintFrame.setDefaultCloseOperation(EXIT_ON_CLOSE);
paintFrame.setVeisible(true);
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  * Debug ** 🕒 🕷 💲 🗀 🖟 MyFrame.java 🔑 MyComboBoxRender.java ** 🖟 MyPanel.java
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                                                                                                                                     return this;
                                                                                                                     }
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# ⊅ Debug ≅
                                                                       □ D MyFrame.java D MyComboBoxRender.java D MyPanel.java □ Dackage homework;
            3°import java.awt.Color;
                                                                                              A import java.awt.Font;

5 import java.awt.Font;

6 import java.awt.event.ActionEvent;

7 import java.awt.event.ActionListener;

8 import java.awt.event.MouseAdapter;

9 import java.awt.event.MouseEvent;
                                                                                    10 import java.awt.event.MouseListener;
11 import java.awt.event.MouseMotionAdapter;
12 import java.awt.event.MouseMotionListener;
13 import java.wtt.event.MouseMotionListener;
14 import java.wtg.Panel;
                                                                                            15
                                                                                            16 class Message{
                                                                                                                 int msx,msy,mex,mey,mtsize;
String ms = new String(),mstrt = new String();
boolean mselect;
Color mc = new Color(255, 255, 255);
public Message(int msx,int msy,int mex,int mey,String ms,String mstrt,boolean mselect,Color mc,int mtsize) {
    this.msx = msx;
    this.msy = msy;
    this.msy = msy;
    this.msy = msy;
    this.ms = ms;
    this.ms = ms;
    this.ms = ms;
    this.ms = ms;
    this.mstrt = mstrt;
    this.mstrt = mstrt;
    this.mselect = mselect;
    this.me = mc;
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of text.png
                    M JRE System Library (JavaS
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                                                                                                                                  this.mc = mc;
this.mtsize = mtsize;
                                                                                           31
32 }
                                                                                                                 }
                                                                                    34 public class MyPanel extends JPanel{
35
36 int sx=0,sy=0,ex=0,ey=0;
37 String s = new String();
                                                                                                                  int sx=0,sy=0,ex=0,ey=0;
String s = new String();
String strt = new String();
Color color = new Color(0, 0, 0);
int tsize = 10;
boolean select = false;
LinkedList<Message> sta = new LinkedList<Message>();
                                                                                           41
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```

```
public MyPanel() {
    addMouseListener(new MouseAdapter() {
                                                                            @Override
public void mousePressed(MouseEvent e) {
    sx = e.getX();
    sy = e.getY();
    MyFrame.x1 = sx;
    MyFrame.y1 = sy;
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                                                                            @override
public void mouseReleased(MouseEvent e) {
   ex = e.getX();
   ey = e.getY();
   MyFrame.x2 = ex;
   MyFrame.y2 = ey;
                                                                                     MyFrame.re();
                                                                                                           new Message(sx,sy,ex,ey,s,strt,select,color,tsize);
                                                                                     Message m =
                                                                                     sta.push(m):
                                                 62
                                                                                    repaint();
                                                 63
                                                                            }
    64
                                                                      });
addMouseMotionListener(new MouseMotionAdapter() {
                                                 65
     public void mouseDragged(MouseEvent e) {
    ex = e.getX();
    ey = e.getY();
    repaint();
}
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           clear.png
cleard.png
                                                                    });
           line.pnglined.png
                                                              }
                                                              @Override
public void paintComponent(Graphics g) {
    super.paintComponent(g);
           oval.pngovald.png
           painticon.jpeg
           rac.pngracd.png
                                                                     while(!sta.isEmpty()) {
    int tsx=0,tsy=0,tex=0,tey=0,ttsize=0;String ts="",tstrt="";boolean tselect=false;Color tcolor;
    tsx = sta.peekLast().msx;
    tsy = sta.peekLast().mex;
    tex = sta.peekLast().mey;
    tex = sta.peekLast().mey;
    ts = sta.peekLast().me;
    ts = sta.peekLast().ms;
    tstrt = sta.peekLast().mstrt;
    tselect = sta.peekLast().mselect;
    ttsize = sta.peekLast().msize;
    tcolor = sta.peekLast().mc;
           text.pngtextd.png
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MyFrame.java 

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                                                                            Message tmp = new Message(tsx, tsy, tex, tey, ts, tstrt, tselect, tcolor, ttsize);
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                                                                             sta.pollLast();
                                                                            g.setColor(tcolor);
g.setFont(new Font("宋株",Font.BOLD,ttsize));
if(ts.equals("1")) {
if(!tselect) {
                                                                                    a:(!:belect) {
g.drawRect(Math.min(tsx,tex), Math.min(tsy,tey),Math.abs(tex-tsx), Math.abs(tey-tsy));
}else {
                                                                                           g.fillRect(Math.min(tsx,tex), Math.min(tsy,tey),Math.abs(tex-tsx), Math.abs(tey-tsy));
                                                                            } } lse if (ts.equals("2")) {
   if(!tselect) {
      g.drawOval(Math.min(tsx,tex), Math.min(tsy,tey),Math.abs(tex-tsx), Math.abs(tey-tsy));
} else {
      g.fillOval(Math.min(tsx,tex), Math.min(tsy,tey),Math.abs(tex-tsx), Math.abs(tey-tsy));
}

    ⇔ homework

                                                                            } } lese if (ts.equals("3")) {
   int towh=Math.min(Math.abs(tex-tsx),Math.abs(tey-tsy));int tosx=0,tosy=0;
   if(tex>tsx) {
      tosx = tsx;
   }else {
      tosx = tsx-towh;
   }
}
          ■ JRE System Library [JavaS
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o cleard.png
o lined.png
o lined.png
o ovald.png
o ovald.png
o painticonjpeg
o rac.png
o rac.png
o text.png
o text.png
                                               114
                                                                                   }
if(tey>tsy) {
  tosy = tsy;
}else {
  tosy = tsy-towh;
}
                                               115
                                               116
                                               118
                                               119
                                                                                   while(!help.isEmpty()) {
                                                133
                                                                             sta.push(help.peekLast());
help.pollLast();
                                                                      g.setColor(color);
g.setFont(new Font("宋体",Font.BOLD,tsize));
                                                                     if(s.equals("1")) {
   if(!select) {
     g.drawRect(Math.min(sx,ex), Math.min(sy,ey),Math.abs(ex-sx), Math.abs(ey-sy));
} else {
     g.fillRect(Math.min(sx,ex), Math.min(sy,ey),Math.abs(ex-sx), Math.abs(ey-sy));
                                                                                 if (s.equals("2")) {
   id IT (Seequals( */) (
if(Iselect) {
    g.drawOval(Math.min(sx,ex),Math.min(sy,ey),Math.abs(ex-sx),Math.abs(ey-sy));
}else {
    g.filloval(Math.min(sx,ex),Math.min(sy,ey),Math.abs(ex-sx),Math.abs(ey-sy));
}
    © Project Explorer 22

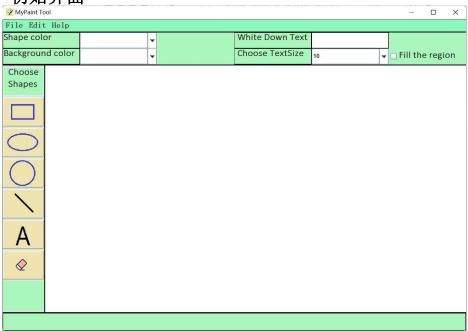
□ homework

■ M. JRE System Library [Jav

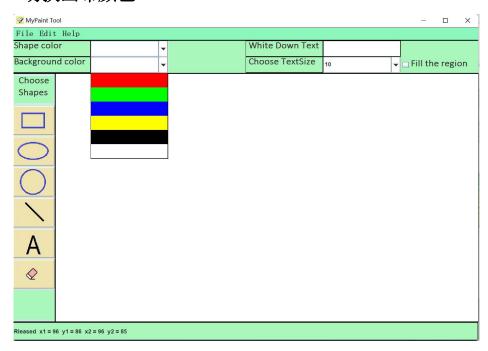
□ cir.png
□ cird.png
□ clear.png
□ clear.dpng
□ line.png
□ line.png
□ ovald.png
□ painticon.jpeg
□ rac.png
□ rac.chpg
□ text.png
□ text.png
□ text.png
                                                                      } else if (s.equals("3")) {
  int owh=Math.min(Math.abs(ex-sx),Math.abs(ey-sy));int osx=0,osy=0;
                                                                             int own=math.min(
if(ex>sx) {
    osx = sx;
}else {
    osx = sx-owh;
                                                                            }
if(ey>sy) {
   osy = sy;
}else {
   osy = sy-owh;
.
                                                                            }
if(!select) {
    g.drawOval(osx,osy,owh,owh);
}else {
    g.fillOval(osx,osy,owh,owh);
                                               167
                                               168
```

二、运行结果截图

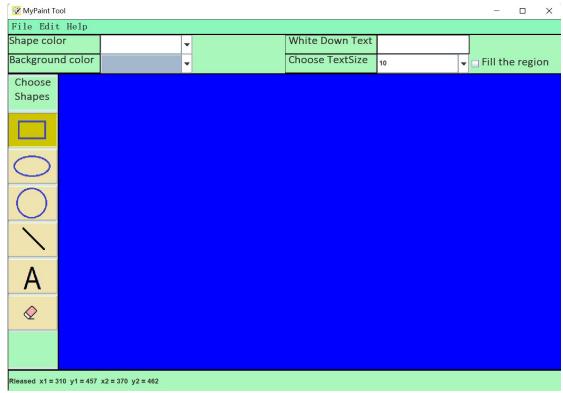
初始界面



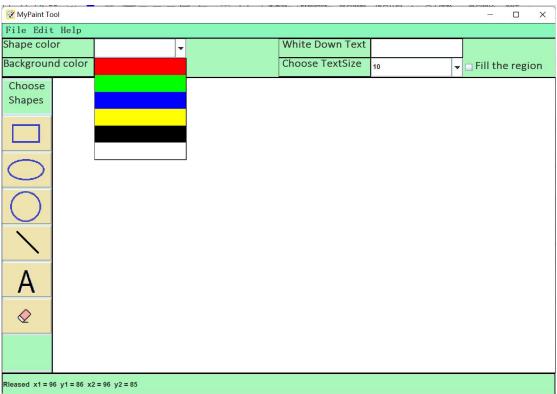
切换画布颜色



画布切换效果展示



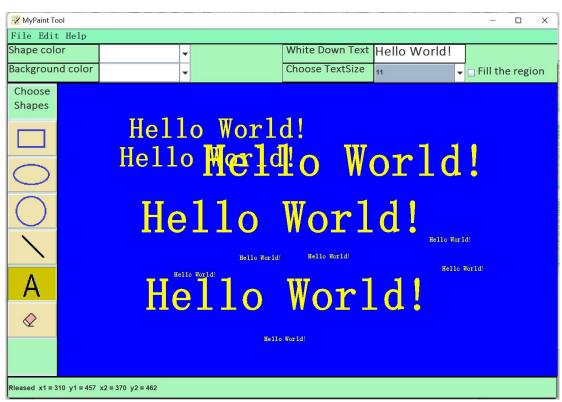
切换画笔颜色



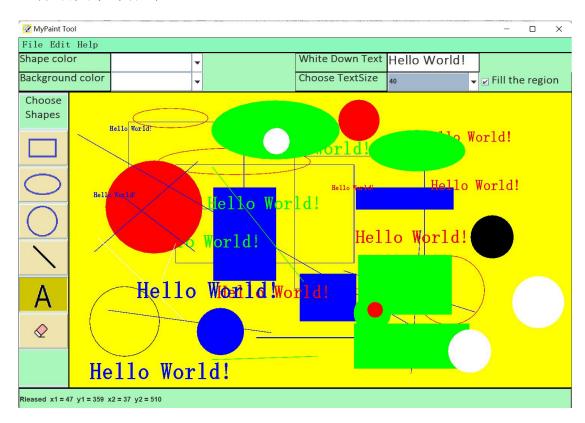
切换文本字号

			- 🗆 X
File Edit Help			
Shape color	White Down Text		
Background color	Choose TextSize	10	☐ Fill the region
Choose		37 38	
Shapes		39	
		40	
		42	
		43 44	
			-
Α			
Rieased x1 = 251 y1 = 196 x2 = 251 y2 = 196			

侧边栏选择换图形状, 选中按钮效果, 右下角显示当前图像位置坐标



整体绘图效果展示



按下侧边栏最后一个按钮,清屏功能

