

Java GUI

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1 Graphics g

```
[*]Graphics g.drawImage();  
Image img=Toolkit.getDefaultToolkit().getImage(path+".gif");  
g.drawImage(img, 1, 1 , null);
```

```
[*]Graphics g.setFont();  
g.setFont(new Font("TimesRoman", Font.PLAIN, 9));
```

```
[*]Graphics g.setColor();  
g.setColor(new Color(R,G,B));
```

```
[*]Graphics g.drawString();  
g.drawString("text",1,1);
```

```
[*]Graphics g.drawLine();  
g.drawLine(1,1,100,100);
```

```
[*]Graphics g.drawRect();  
g.drawRect(1,1,rectX,rectY);
```

```
[*]Graphics g.drawOval();  
g.drawOval(1,1,ovalX,ovalY);
```

```
[*]Graphics paintTimer  
Action paintTimer = new AbstractAction() {  
    public voidactionPerformed(ActionEvent e) {  
        repaint();  
    }  
};  
timer=new Timer(1000,paintTimer);  
timer.start();  
timer.stop();
```

2 javax.swing.*;

2.1 JOptionPane

```
[*]import javax.swing.JOptionPane;
JOptionPane.showInputDialog("Dies ist ein Input Dialog");
JOptionPane.showConfirmDialog(null,
    "Dies ist ein Confirm Dialog");
JOptionPane.showMessageDialog(null,
    "Dies ist ein Message Dialog");
Object[] selections = { "First", "Second", "Third" };
Object val = JOptionPane.showInputDialog(null,
    "Choose one", "Input", JOptionPane.INFORMATION_MESSAGE,
    null,selections, selections[0]);
val.toString();
```

2.2 JFrame | JDialog

```
[*]import javax.swing.JFrame;  
JFrame frame=new JFrame();  
frame.setTitle("title");  
frame.setSize(300,400);  
frame.add();  
frame.setVisible(true);
```

```
[*]import javax.swing.JDialog;  
JDialog dialog=new Dialog();  
dialog.setTitle("title");  
dialog.setSize(300,400);  
dialog.add();  
dialog.setVisible(true);
```

2.3 JMenuBar | JProgressBar

```
[*]import javax.swing.JMenuBar;
JMenuBar menuBar=new JMenuBar();
JMenu menu=new JMenu("mName1");
JMenuItem menuItem1=new JMenuItem("mItem1");
menu.add(menuItem1);
menuBar.add(menu)
[*]import javax.swing.JScrollBar;
JScrollBar scrollBar=
    new JScrollBar(JScrollBar.HORIZONTAL,30,10,0,100);

[*]import javax.swing.JProgressBar;
JProgressBar progressBar=new JProgressBar(0,100);
progressBar.setValue(0);
progressBar.setStringPainted(true);
panel.add(progressBar);
try{Thread.sleep(50);
}catch(InterruptedException e){
    e.printStackTrace();
}
```

2.4 JPopupMenu | JPanel | JEditorPane | JScrollPane | JTabbedPane | JSplit-Pane

```
[*]import javax.swing.JPopupMenu;
JPopupMenu popUp=new JPopupMenu();
popUp.setLocation("title");
popUp.add();
popUp.setVisible(true);

[*]import javax.swing.JPanel;
JPanel panel=new JPanel(new FlowLayout());
panel.setPreferredSize(new Dimension(500,400));
panel.setBackground(Color.White);
panel.add(new JLabel("A"))
[*]getContentPane
c=f.getContentPane();
c.add(panel, BorderLayout.NORTH);

[*]import javax.swing.JEditorPane
JEditorPane editorPane=new EditorPane();
editorPane.setContentType("text/html");
editorPane.setText("
html>");
editorPane.setEditable(true);

[*]import javax.swing.JScrollPane
JScrollPane scrollPane=new JScrollPane(textArea,
    ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS,
    ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS);
panel.add(scrollPane);

[*]import javax.swing.JTabbedPane;
JTabbedPane tabbedPane=
    new TabbedPane(JTabbedPane.TOP,
        JTabbedPane.WRAP_TAB_LAYOUT);
tabbedPane.add("tabName", panel);

[*]import javax.swing.JSplitPane;
JSplitPane splitPane=
    new JSplitPane(JSplitPane.HORIZONTAL_SPLIT,p1,p2);
JSplitPane splitPane=
    new JSplitPane(JSplitPane.HORIZONTAL_SPLIT);
splitPane.setLeftComponent(p1);
splitPane.setRightComponent(p2);
dialog.add(splitPane, BorderLayout.CENTER);
```

2.5 JLabel | JTable | JTextField | JTextArea | JPasswordField | JButton | JCheckBox | JRadioButton | JToggleButton | ButtonGroup | JList | JComboBox

```
[*]import javax.swing.JLabel;
JLabel label=new JLabel("A");
label.setPreferredSize(new Dimension(100,100));
label.setText("A");
label.setToolTipText("A");
label.setVerticalAlignment(JLabel.TOP);
Border border=new LineBorder(Color.black);
label.setBorder(border);
label.setBorder(
    BorderFactory.createTitledBorder("titled"));

[*]import javax.swing.JTable;
JTable table=new JTable(data,title);
String[] [] data={{"A","B"},"C","D"}};
String[] title={"A","A"};
panel.add(table);

[*]import javax.swing.JTextField;
JTextField textField=new JTextField("A");
textField.setPreferredSize(new Dimension(170,30));

[*]import javax.swing.JTextArea;
JTextArea textArea=new JTextArea("A",9,9);
textArea.setLineWrap(true);
textArea.setWrapStyleWord(true);
textArea.setFont("Arial",Font.ITALIC,14);
textArea.setPreferredSize(new Dimension(500,400));

[*]import javax.swing.JPasswordField;
JPasswordField passwordField=new JPasswordField("A");
passwordField.setEchoChar('*');

[*]import javax.swing.JButton;
JButton button=new JButton("A");
button.setEnabled(false);

[*]import javax.swing.JCheckBox;
JCheckBox checkBox=new JCheckBox("A");

[*]import javax.swing.JRadioButton;
JRadioButton radioButton=new JRadioButton();

[*]import javax.swing.JToggleButton
JToggleButton toggleButton=new JToggleButton();

[*]import javax.swing.ButtonGroup;
ButtonGroup buttonGroup=new ButtonGroup();
JButton button=new JButton("A");
buttonGroup.add(button);
panel.add(button);

[*]import javax.swing.JList;
JList list=new JList(strA);
String strA={"A","B"};

[*]import javax.swing.JComboBox;JComboBox comboBox=new JComboBox();
```


3 ActionListener

```
[*]import java.awt.event.*;
-ActionListener
ActionListener buttonListener=
new ActionListener(){
    public void actionPerformed(ActionEvent e){
        String buttonStr=
            ""+((JButton)e.getSource()).getText();
        buttonAction(buttonStr);
    }
};
button.addActionListener(buttonListener);

[*]import java.awt.event.*;
-implements ActionListener
class events extends JFrame implements ActionListener{
    .
    .
    .
checkbox.addActionListener(this);
public void actionPerformed(ActionEvent e){
    boolean selected1=checkbox.isSelected();
}
}

[*]import java.awt.event.*;
-MouseListener
panel.addMouseListener(
    new MouseAdapter() {
        public void mousePressed(MouseEvent evt) {
            mousePressedEvent(evt);
        }
    }
);
public void mousePressedEvent(MouseEvent evt) {
    System.out.println(evt.getX());
}
```