

Java means DURGA SOFT..

CORE JAVA

Material



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SWINGS

1. Sun Micro Systems introduced AWT to prepare GUI applications.
2. awt components not satisfy the client requirement.
3. An alternative to AWT Netscape Communication has provided set of GUI components in the form of IFC (Internet Foundation Class).
4. IFC also provide less performance and it is not satisfy the client requirement.
5. In the above contest [sun+Netscape] combine and introduced common product to design GUI applications.

Differences between awt and Swings:

1. AWT components are heavyweight component but swing components are light weight component.
2. AWT components consume more number of system resources Swings consume less number of system resources.
3. AWT components are platform dependent but Swings are platform independent.
4. AWT is provided less number of components where asswings provides more number of components.
5. AWT doesn't provide Tooltip Test support but swing components have provided Tooltip test support.
6. in awt for only window closing : windowListener windowAdaptor
In case of swing use small piece of code.
 - i. f.setDefaultCloseOperation(JFrame.EXIT-ON-CLOSE);
7. AWT will not follow MVC but swing follows MVC Model View Controller It is a design pattern to provide clear separation b/w controller part,model part,view part.
 - a. Controller is a normal java class it will provide controlling.
 - b. View part provides presentation
 - c. Model part provides required logic.
8. In case of AWT we will add the GUI components in the Frame directly but Swing we will add all GUI components to panes to accommodate GUI components.

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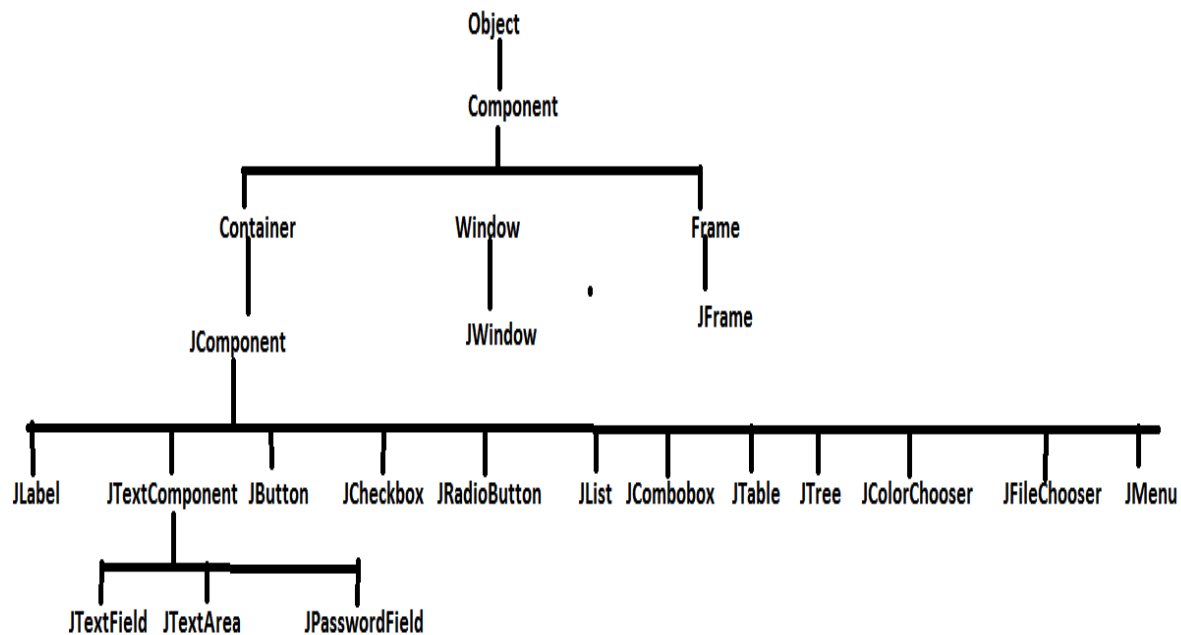
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Classes of swing:-



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Example :-

```
import java.awt.*;
import javax.swing.*;
class MyFrame extends JFrame
{
    JLabel l1,l2,l3,l4,l5,l6,l7;
    JTextField tf;
    JPasswordField pf;
    JCheckBox cb1,cb2,cb3;
    JRadioButton rb1,rb2;
    JList l;
    JComboBox cb;
    JTextArea ta;
    JButton b;
    Container c;
    MyFrame() //constructor
    {
        this.setVisible(true);
        this.setSize(150,500);
        this.setTitle("SWING GUI COMPONENTS EXAMPLE");
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        c=this.getContentPane();
        c.setLayout(new FlowLayout());
        c.setBackground(Color.green);
        l1=new JLabel("User Name");
        l2= new JLabel("password");
        l3= new JLabel("Qualification");
        l4= new JLabel("User Gender");
        l5= new JLabel("Technologies");
        l6= new JLabel("User Address");
        l7= new JLabel("comments");
        tf=new JTextField(15);
        tf.setToolTipText("TextField");
        pf=new JPasswordField(15);
        pf.setToolTipText("PasswordField");
        cb1=new JCheckBox("BSC",false);
        cb2=new JCheckBox("MCA",false);
        cb3=new JCheckBox("PHD",false);
        rb1=new JRadioButton("Male",false);
        rb2=new JRadioButton("Female",false);
        ButtonGroup bg=new ButtonGroup();
        bg.add(rb1);          bg.add(rb2);
        String[] listitems={"cpp","c","java"};
        l=new JList(listitems);
        String[] cbitems={"hyd","pune","bangalore"};
        cb=new JComboBox(cbitems);
        ta=new JTextArea(5,20);
        b=new JButton("submit");
    }
}
```

```

        c.add(l1);          c.add(tf);          c.add(l2);          c.add(pf);
        c.add(l3);          c.add(cb1);         c.add(cb2);         c.add(cb3);
        c.add(l4);          c.add(rb1);         c.add(rb2);         c.add(l5);
        c.add(l);           c.add(l6);          c.add(cb);           c.add(l7);
        c.add(ta);          c.add(b);
    }
}

class SwingDemo
{
    public static void main(String[] args)
    {
        MyFrame f=new MyFrame();
    }
};

*****JCOLORCHOOSER*****
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.event.*;
class MyFrame extends JFrame implements ChangeListener
{
    JColorChooser cc;
    Container c;
    MyFrame()
    {
        this.setVisible(true);
        this.setSize(500,500);
        this.setTitle("SWING GUI COMPONENTS EXAMPLE");
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        c=getContentPane();
        cc=new JColorChooser();
        cc.getSelectionModel().addChangeListener(this);
        c.add(cc);
    }
    public void stateChanged(ChangeEvent c)
    {
        Color color=cc.getColor();
        JFrame f=new JFrame();
        f.setSize(400,400);
        f.setVisible(true);
        f.getContentPane().setBackground(color);
    }
}

class Demo
{
    public static void main(String[] args)
    {
        MyFrame f=new MyFrame();
    }
};

*****JFILECHOOSER*****
import java.io.*;
import java.awt.*;
import java.awt.event.*;

```

```

import javax.swing.*;
import javax.swing.event.*;
class MyFrame extends JFrame implements ActionListener
{
    JFileChooser fc;
    Container c;
    JLabel l;
    JTextField tf;
    JButton b;
    MyFrame()
    {
        this.setVisible(true);
        this.setSize(500,500);
        this.setTitle("SWING GUI COMPONENTS EXAMPLE");
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        c=getContentPane();
        l=new JLabel("Select File:");
        tf=new JTextField(25);
        b=new JButton("BROWSE");
        this.setLayout(new FlowLayout());
        b.addActionListener(this);
        c.add(l);           c.add(tf);           c.add(b);
    }
    public void actionPerformed(ActionEvent ae)
    {
        class FileChooserDemo extends JFrame implements ActionListener
        {
            FileChooserDemo()
            {
                Container c=getContentPane();
                this.setVisible(true);
                this.setSize(500,500);
                fc=new JFileChooser();
                fc.addActionListener(this);
                fc.setLayout(new FlowLayout());
                c.add(fc);
            }
            public void actionPerformed(ActionEvent ae)
            {
                File f=fc.getSelectedFile();
                String path=f.getAbsolutePath();
                tf.setText(path);
                this.setVisible(false);
            }
        }
        new FileChooserDemo();
    }
}

class Demo
{
    public static void main(String[] args)
    {
        MyFrame f=new MyFrame();
    }
};

```


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*****JTABLE*****

```
import javax.swing.*;
import java.awt.*;
import javax.swing.table.*;
class Demo1
{
    public static void main(String[] args)
    {
        JFrame f=new JFrame();
        f.setVisible(true);
        f.setSize(300,300);
        Container c=f.getContentPane();
        String[] header={"ENO", "ENAME", "ESAL"};
        Object[][] body={{ "111", "aaa", 5000 }, { "222", "bbb", 6000 }, { "333", "ccc", 7000 }, { "444", "ddd", 8000 }};
        JTable t=new JTable(body,header);
        JTableHeader th=t.getTableHeader();
        c.setLayout(new BorderLayout());
        c.add("North",th);
        c.add("Center",t);
    }
}
```

*****APPLET*****

```
import java.awt.*;
import java.applet.*;
public class Demo2 extends Applet
{
    public void paint(Graphics g)
    {
        Font f=new Font("arial",Font.BOLD,20);
        g.setFont(f);
        g.drawString("Sravya Software Solutions",100,200);
    }
};
```

Configuration of Applet:-

```
<html>
<applet code="Demo2.class" width="500" height="500">
</applet>
</html>
```

*****INIT() START() STOP() DESTROY()*****


```
import java.awt.*;
import java.applet.*;
public class Demo3 extends Applet
{
    String msg="";
    public void paint(Graphics g)
    {
        Font f=new Font("arial",Font.BOLD,20);
        g.setFont(f);
        g.drawString("Sravya Software Solutions "+msg,100,200);
    }
    public void init()
    {
        msg=msg+"initialization"+" ";
    }
    public void start()
    {
        msg=msg+"starting"+" ";
    }
    public void stop()
    {
        msg=msg+"stopping";
    }
    public void destroyed()
    {
        msg=msg+"destroyed";
    }
};
<html>
<applet code="Demo3.class" width="500" height="500">
</applet>
</html>
```



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