



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)
Coimbatore - 641035.



*Accredited by NBA - AICTE and Accredited by NAAC - UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai*

Department of Computer Applications

Course Code : 23CAT606

Course Name : Java Programming

Unit IV : Advanced Java Programming

Topic 4 : Swing components hierarchy, Panes





RMI

Stub and Skeleton

Java Bean

Comparison: AWT and Swing

Swing Introduction

Example

Assessment



Swing: Introduction



1. Part of Java Foundation Classes (JFC)
2. *Used to create window-based applications.*
3. It is built on the top of AWT (Abstract Windowing Toolkit) API and entirely written in java.
4. Swing provides platform-independent and lightweight components.
5. The javax.swing package provides classes for java swing API such as JButton, JTextField, JTextArea, JRadioButton, JCheckbox, JMenu, JColorChooser etc.



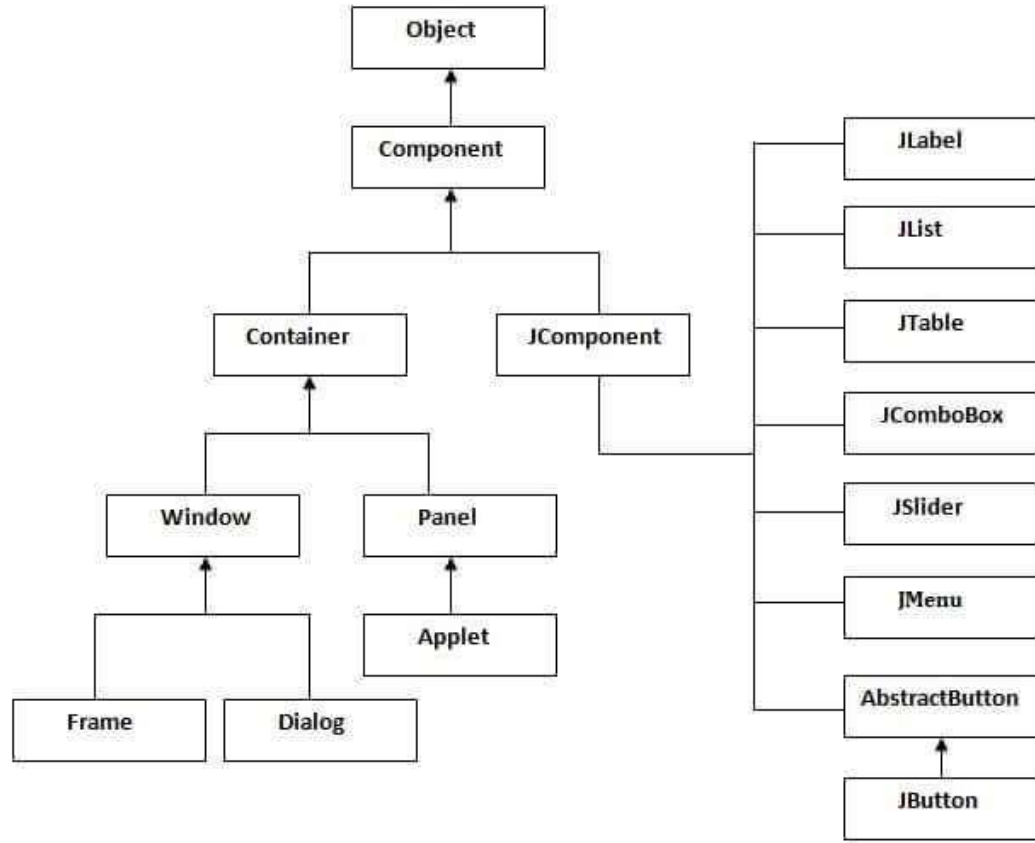
What is JFC?



1. JFC stands for Java Foundation Classes. JFC is the set of GUI components that simplify desktop Applications.



Swing: Hierarchy of Java Swing classes





Commonly used Methods of Component class

Method	Description
<code>public void add(Component c)</code>	add a component on another component.
<code>public void setSize(int width,int height)</code>	sets size of the component.
<code>public void setLayout(LayoutManager m)</code>	sets the layout manager for the component.
<code>public void setVisible(boolean b)</code>	sets the visibility of the component. It is by default false.



Java Swing Examples



```
import javax.swing.*;
public class FirstSwingExample {
public static void main(String[] args) {

JFrame f=new JFrame();//creating instance of JFrame
JButton b=new JButton("click");//creating instance of Jbutton
b.setBounds(130,100,100, 40);//x axis, y axis, width, height
f.add(b);//adding button in JFrame

f.setSize(400,500);//400 width and 500 height
f.setLayout(null);//using no layout managers
f.setVisible(true);//making the frame visible
}
}
```





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Summary

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