Swings

AWT	Swings
▪ **Heavy weight Components** **(Use native codes)** ▪ **Platform specific**	▪ **Lightweight Components** **(Full of Java)** ▪ **Platform Independent**

Class Hierarchy

```
java.awt.*;
Component
        │
        ▼
    Container
   ╱    │    ╲
  ▼     ▼     ▼
Window  javax.swing.*;   Panel
  │     JComponent        │
  ▼                       ▼
Frame                  Applet
```
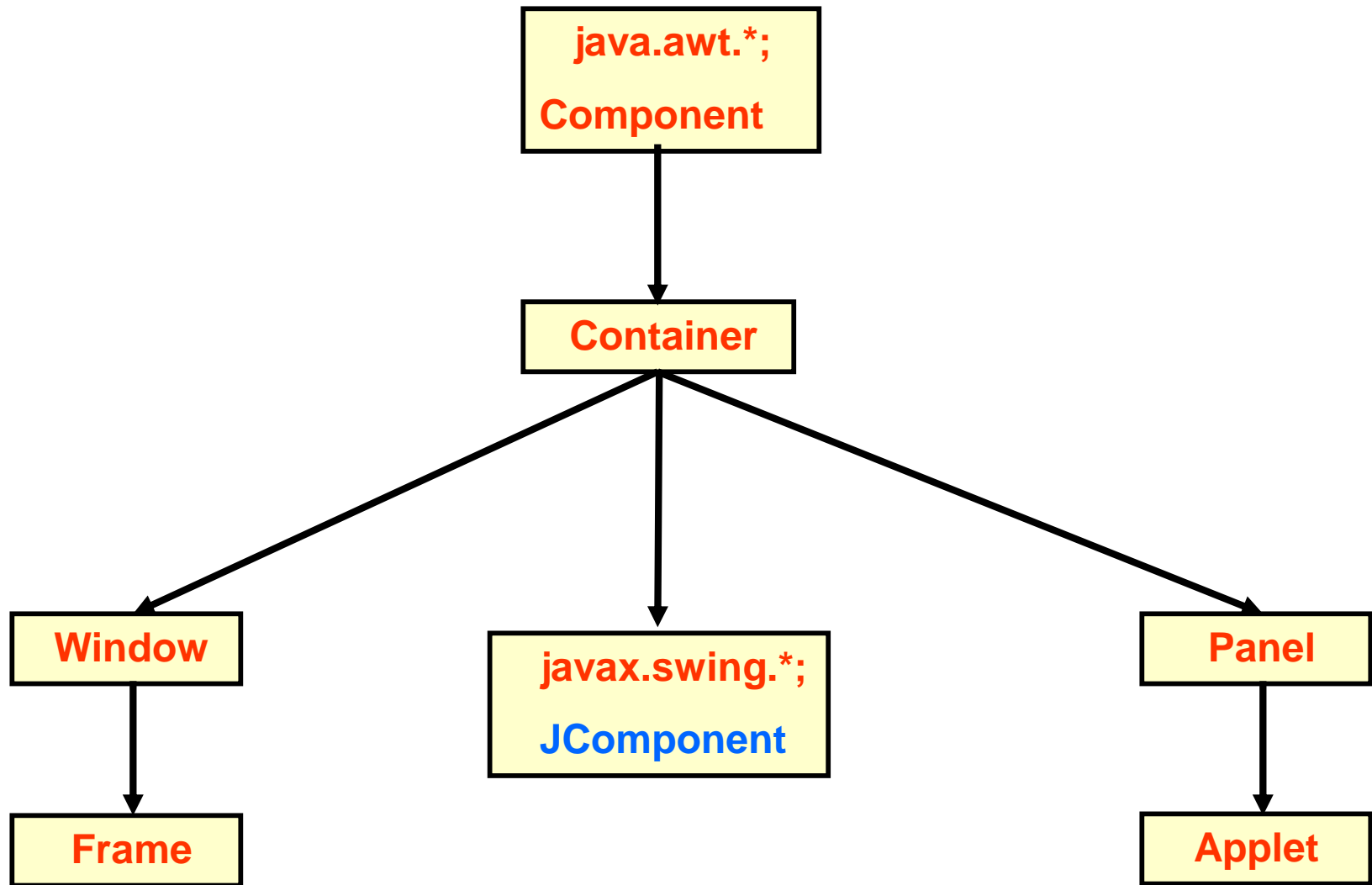
Containers

Top Level

- JFrame
- JApplet

Sub Level

- JPanel
- JScrollPane
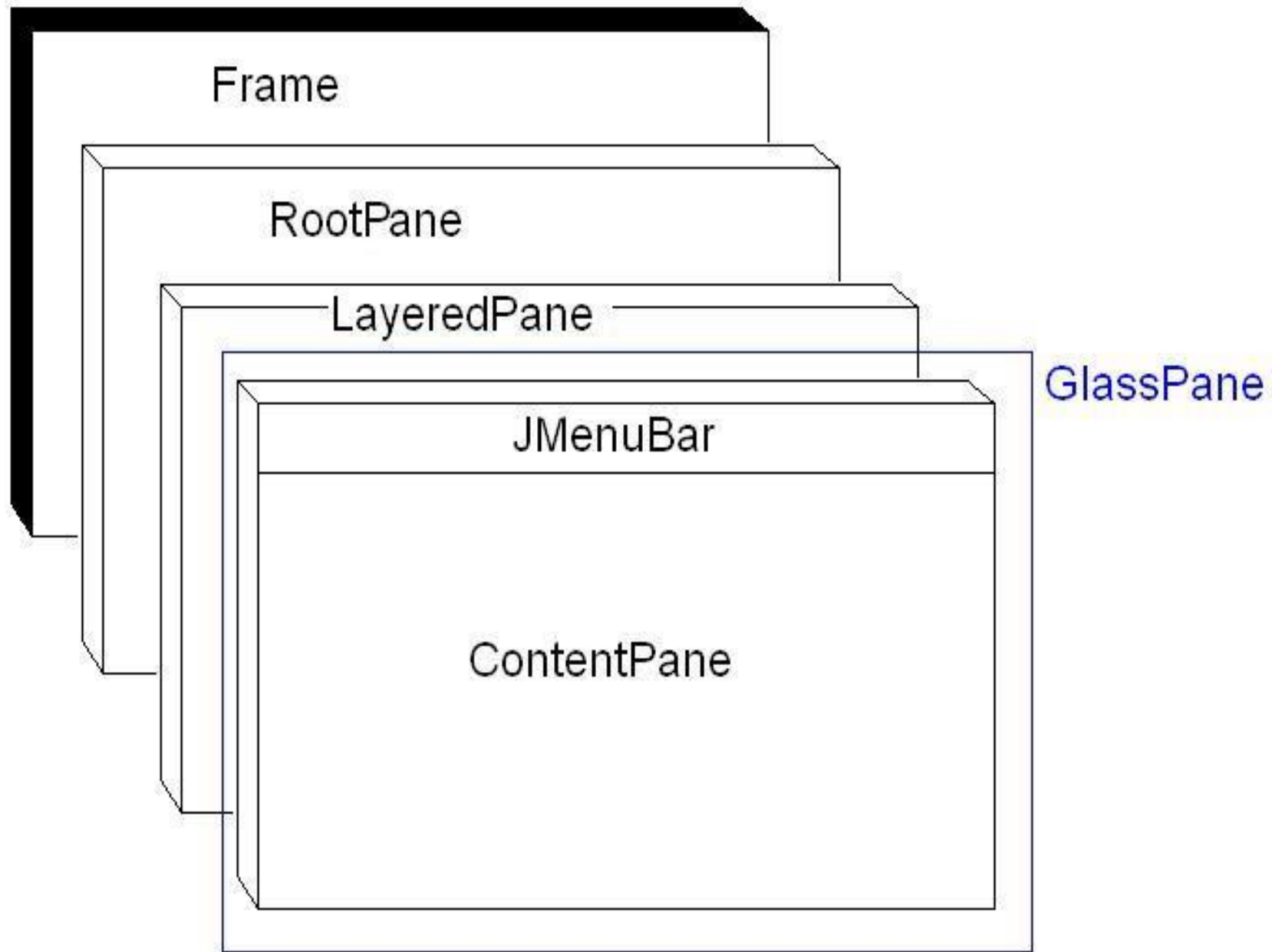- JTabbedPane
- JTable

Containers

Control
Components

- JTextField
- JTextArea
- JButton
- JLabel
- JList
- JChechbox

JFrame

```java
import java.awt.*;
import javax.swing.*;

class BDemo extends JFrame
{
 BDemo()
 {
  setLayout(new FlowLayout());
  setSize(500,500);
  setVisible(true);
 }
 public static void main(String aa[])
 {
  new BDemo();
 }
}
```

Frame

RootPane

LayeredPane

GlassPane

JMenuBar

ContentPane

JTabbedPane

JTabbedPane

JTabbedPane()

```
void addTab(String , Component);
```