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## Java swing components ppt

You read a free preview Pages 7 to 8 are not displayed in this preview. You read a free preview Pages 13 to 26 are not displayed in this preview. Java SwingThe origins of the Swing - AWT components use native code resources and are called heavy goods vehicles. The native use of peers has led to several problems - due to variations between the operating system, a component may appear or even act differently on different platforms - threatened the excessive philosophy of java: write once, run anywhere - The appearance and feel of each component were fixed and could not be changed - The use of heavy components caused frustrating restrictions - therefore, a better approach was needed - SwingSwing does not replace AWT, but it is built on the basis of AWT. It also uses the same event manipulation mechanism as the AWT - the AWT limits are removed through two key features: lightweight components and a plug-in look and feel - define the Swing essence - Light means - they are written entirely in java and are not mapped directly to the platform peers - Because the lightweight components are rendered using primitive graphics , they can be transparent, allowing for non-rectangular shapes. These are more efficient and flexible - The appearance and feel of each component are determined by Swing, not by the underlying operating system Look and Feel is under Swing's control - It is possible to separate the appearance and feel of a component from the logic of the component - Advantage: it becomes possible to change the way a component is rendered without affecting any of its other aspects. It is possible to plug in a new look and feel for a given component with the creation of side effects in the code that uses this component - It becomes possible to define whole sets of look-and-feel that represent different styles of graphical interface - To use a specific style, its appearance and feel are connected - Then all components are rendered using this style - It is possible to define a look and feel consistent on all platforms acts as a specific platform) MVC (Model-View-Controller) Connection - In general, a visual component has 3 distinct aspects i) How the component looks like when it is on the screen (ii) How the component reacts to the user iii) The status information associated with the component - Model status information - Component view - Controller-how the component reacts to the user:box model contains a field that indicates whether it is selected or not - Show its Controller - when the user clicks on the checkbox the controller reacts by changing the model to reflect the user's choice, and then causing a change of view - Swing-view-controller (Udelegate). model-architecture modeldelegate/separatemodel. Most swing components contain 2 objects - Model -Uidelegate - ButtonModel-ButtonUI ButtonModel-ButtonUI interface derived from the component UI.Components and containers - Swing GUI is made up of components and containers. This distinction is conceptual because a container is also a component. The difference lies in their use. A component is an independent visual control - A container is a special type of component that contains a group of components - For a component to be displayed, it must be kept in a container. A swivel graphical interface must therefore have at least one container. Because the container is a component, it can hold other containers too. Components - Swing components are derived from the JComponent class that inherits an awt component and a class of containers - it supports pluggable appearance and feel - All swing components are in the javax.swing package. For example: JApplet,JFrame,JButton,JCheckBox..... Containers - Two types of containers - High-level containers, namely JFrame, JApplet, JWindow, JDialog, these do not inherit JComponent, but inherit awt components and containers and weigh heavily. A high-level container is not contained in any other container. For applications - JFrame and for applets - JApplet - Light containers (may be contained in another container) that inherit JComponent. Eg. JPanel High-Level Container Carrier - Each high-level container inherits JRootPane (a light container). Its functionality is to manage other windows and menu bar. The glass contains glass, diaper, contentpane. Glasspane (example of Jpanel and transparent) is on top and completely covers all other windows. It can manage mouse events or paint on any other component. Layeredpane (insatence of JLayeredPane) allows components to have a depth value - we add contentpane components (an opaque instance of Jpanel). Swing Application - The manufacturer is invoked using the lines of code: SwingUtilities.invokeLater (new Runnable) - public vacuum race () - new class name (); The class object is created on the event shipping thread - Swing programs are event-oriented - When the user interacts with a component, an event is generated - The event is transmitted to the app by calling a defined event manager in the app:but, the manager is run on the event shipping thread provided by Swing and not on the main thread of the app - Event managers are called on the thread that is not created by the program - All GUI swing components are created and updated from the event shipping thread, not the main thread - The main one is from the main thread - The principal can't instantly instantiate a class object, it must create a runnable object that runs on the event distribution thread and ask that object to create the GUI to allow the creation of the GUI code on the event distribution thread, use the methods defined by the SwingUtilities-to-invoke () class, and invokeAndWait () - Static Vacuum Immediately Returns - The static vacuum invokesAndWait (Runnable obj) launches InterruptedException - Wait for returns obj.run () - void setDefaultCloseOperation (int what) - Value of what - JFrame.EXIT\_ON\_CLOSE - Other HIDE\_ON\_CLOSE options, DISPOSE\_ON\_CLOSE DO\_NOTHING\_ON\_CLOSE - Constants declared in WindowConstants - an interface declared in javax.swing.com SwingDemo class - SwingDemo () - // Create a new JFrame container. JFrame frm - new JFrame (A Simple Swing Application). Give the frame an initial size. frm.setSize (275, 100); End the program when the user closes the app. frm.setDefaultCloseOperation (JFrame.EXIT\_ON\_CLOSE); Create a text label. JLabel jlab - new JLabel (Swing means powerful guis.); Add the label to the content pane. frm.add (jlab); View the frame. frm.setVisible (true); Public static vacuum hand (String args[]) // Create the frame on the event's shipping thread. SwingUtilities.invokeLater (new Runnable) - Public Vacuum Race () - New SwingDemo(); Swing-specific events are stored in javax.swing.event // Manage an event in a Swing program. import java.awt. import java.awt.event. import javax.swing. EventDemo class - JLabel jlab; EventDemo() Create a new JFrame container. JFrame frm - new JFrame (An example of an event); Specify FlowLayout for the layout manager. frm.setLayout (new FlowLayout());01 Give the frame an initial size. frm.setSize (220, 90); End the program when the user closes the app. frm.setDefaultCloseOperation (JFrame.EXIT\_ON\_CLOSE); Make two buttons. JButton jbtnAlpha - new JButton (Alpha); JButton jbtnBeta - new JButton (Beta); Add the action listener to Alpha. jbtnAlpha.addActionListener (new ActionListener) - public-performed vacuum action (ActionEvent ae) - jlab.setText (Alpha was pressed.); Add the action listener to Beta. jbtnBeta.addActionListener (new ActionListener) - public-performed vacuum action (ActionEvent ae) - jlab.setText (Alpha was pressed.); Add the buttons to the content pane. frm.add (jbtnAlpha); frm.add (jbtnBeta); Create a text label. jlab - new JLabel (Press a button.); Add the label to the content pane. frm.add (jlab); View the frame. frm.setVisible (true); Public static vacuum hand (String args[]) // Create the frame on the event's shipping thread. SwingUtilities.invokeLater (new Runnable) - Public Vacuum Race () - new EventDemo(); Any interaction with the components of an applet swing must take place on the Event shipping - applies to all swing programs // A simple import of swing-based applet from javax.swing. import java.awt. import java.awt.event. This HTML can be used to launch the applet: 'MySwingApplet' width220 width220 Public class MySwingApplet extends JApplet - JButton jbtnAlpha; JButton jbtnBeta; JLabel jlab; Start the applet. public empty init () - try SwingUtilities.invokeLaterAndWait (new Runnable () - public void run() - makeGUI()); // start the INTERFACE -); 'wrestling (Exc exception) 'System.out.println ("Can't create because of 'exc'); This applet does not need to replace the boot () , stop () , or destroy(). Set up and start the graphical interface. makeGUI private vacuum to use the flow layout. setLayout (new FlowLayout()); // Make two buttons. jbtnAlpha - new JButton (Alpha); jbtnBeta - new JButton (Beta); // Add the Action Listener to Alpha. jbtnAlpha.addActionListener (new ActionListener) - void public actionPerformed (ActionEvent on) - jlab.setText (Alpha was pressed); Add the action listener to Beta. jbtnBeta.addActionListener (new ActionListener) - public-performed vacuum action (ActionEvent le) - jlab.setText (Beta was pressed.); Add the buttons to the content pane. add (jbtnAlpha); add (jbtnBeta); Create a text label. jlab - new JLabel (Press a button.); Add the label to the content pane. add (jlab) All swing-based apps extend JApplet - The init () method initiates Swing components on the event's shipping thread by setting up a call to MakeGUI () - This is accomplished by using InvokeAndWait() because in it should not come back until the entire initialization process has been completed - The start () called until after the start, which means that the graphical interface must be fully built - Inside MakeGUI(), two buttons and the label are created, and action listeners are added to the buttons. Then the components are added to the content glass - this general approach should be used when building a swing graphical interface, used by an appletIntroduction - Swing is a set of classes that provides components more powerful and flexible than is possible with the AWT. Swing provides several exciting additions, including tab windows, scrolling windows, trees and tables. The swing components are entirely written in Java and, therefore, are independent of the platform. Introduction The number of classes and interfaces in Swing packages is quite large, and this chapter gives an overview of some components Swing-related classes are contained in javax.swingIntroduction The number of classes and interfaces in Swing packages is quite large, and this chapter gives an overview of some JApplet components - Fundamental to Swing is the JApplet class, Applets' extends to Applets that use Swing must be JApplet's subclasses - JApplet provides enhanced features that aren't in Applet' when adding a component to a JApplet instance, call add () for the content pane of the JApplet object. (Don't add () applet method) - JDK5 - In JDK6, you can call add () directly on The content component can be obtained using the method shown here: ' Container getContentPane ' ' The container addition method () can be used to add a component to a content pane. Add (account) empty - comp component to add to the content pane. Icons and labels - In Swing, the icons are encapsulated by the ImageIcon class - Two of its builders are displayed here - ImageIcon (thong file name) - ImageIcon (URL) - The first form uses the image in the file named file name. The second form uses the image in the resource identified by url. Icons and Labels - The ImageIcon class implements the Icon interface that states the methods displayed here:Icons and Labels - Swing labels are examples of the JLabel class, which extends JComponent - It can display text and/or an icon. Some of its builders are featured here - JLabel (Icon i) - JLabel (String s, Icon i, int align)Icons and Labels - and i the text and icon used for the label. Align THE LEFT, RIGHT, CENTRE, TO THE TEAM or TO THE TRAIN. These constants are set in the SwingConstantsIcons and Labels interface - The icon and text associated with the label can be read and written using the following methods: 'Icon getIcon' () - String getText () - void setIcon (Icon i) - void setText (String s) Here, i and s are the icon and text, respectivelyExample The following example illustrates how to create and display a label containing both an icon and a chain. private void makeGUI. ImageIcon ii - new ImageIcon (France.gif); Create a label. JLabel jl - new JLabel (France, ii, JLabel.CENTER); Add the label to the content pane. add (jl) Example // Demonstrate JLabel and ImageIcon. import java.awt. import javax.swing. 'Applet code JLabelDemo width250 height150 JLabelDemo Public Class Extends JApplet - public void init() - try SwingUtilities.invokeLaterAndWait (new Runnable() - public void run () - makeGUI (); ExamplesText Fields - The Swing JTextFields a JTextComponent class of subclass, which extends to JComponent. Some of its manufacturers are presented here: JTextField () JTextField (int cols) JTextField (String s, int cols) JTextField (String s) collars the number of columns in the text field// Demonstrate JTextField. import java.awt.event. import javax.swing. JTextFieldDemo's public class JTextFieldDemo extends JApplet - JTextField jtf; public void init() - try - SwingUtilities.invokeLaterAndWait (new Runnable) exc) - System.out.println (Can't create because of exc); private void makeGUI() - Change of flow layout. setLayout (new FlowLayout()); // Add text field to Component. jf - new JTextField (15); add (jtf); jtf.addActionListener (new ActionListener) - public-performed vacuum action (ActionEvent ae) - View text when the user presses ENTER. showStatus (jtf.getText()); A CaretEvent is pulled every time the caret (i.e. the cursor) changes position. (CaretEvent is packed in javax.swing.event.) Buttons Swing defines four types of buttons: JButton, JToggleButton, JCheckBox and JRadioButton. All are subclasses of the AbstractButton class, which extends JComponent. AbstractButton contains many methods that allow you to control the behavior of the buttons. For example, you can set different icons that are displayed for the button when it's turned off, pressed or selected. Another icon can be used as a reversal icon, which appears when the mouse is positioned on a button. Buttons The following methods define these icons: empty setDisabledIcon(Icon di) void setPressedIcon(Icon pi) void setSelectedIcon(Icon si) void setRolloverIcon (Icon ri) The text associated with a button can be read and written via the following methods: String getText () void setText (String str) The model used by all buttons is defined by the button interface. A button generates an action event when pressed. The JButton-JButton class allows an icon, chain or both to be associated with the push button. When the button is pressed, an ActionEvent is generated. Some of its builders are shown here: JButton(Icon i) JButton(String s) JButton (String s, Icon i)Example: JButton allows an icon, chain or both to be associated with the push button. Some of its builders are presented here: / Demonstrate a JButton based on icons. import java.awt. import java.awt.event. import javax.swing. JButtonDemo width250-height450-applet's public class JButtonDemo extends JApplet- implements ActionListener - JLabel jlab; Example: Public vacuum init () - try SwingUtilities.invokeLaterAndWait (new Runnable () - public void run () - makeGUI(); 'catch (Exception exc) 'System.out.println (Can't create because of exc); makeGUI private vacuum () - Change of flow layout. setLayout (new FlowLayout()); Example: // Add buttons to the content pane. ImageIcon france - new ImageIcon (France.gif); JButton jb - new JButton (France); jb.setActionCommand (France); jb.addActionListener Add (jb) ImageIcon Germany - new ImageIcon (Germany.gif); jb - new JButton (Germany); jb.setActionCommand (Germany); jb.addActionListener Add (jb) ImageIcon Italy - new ImageIcon (Italy.gif); jb - new JButton (Italy); jb.setActionCommand (Italy); jb.addActionListener Add (jb) ImageIcon Japan - new ImageIcon (Japan.gif); jb - new JButton (Japan); jb.setActionCommand (Japan); jb.addActionListener Add (jb) Create and add the label to the content glass. jlab - new JLabel (Choose a flag); //); Manage button events. public-performed vacuum action (ActionEvent ae) - jlab.setText (You've selected ae.getActionCommand()); out of the program

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