# PEMROGRAMAN BERBASIS OBJEK 2 KOMPONEN SWING



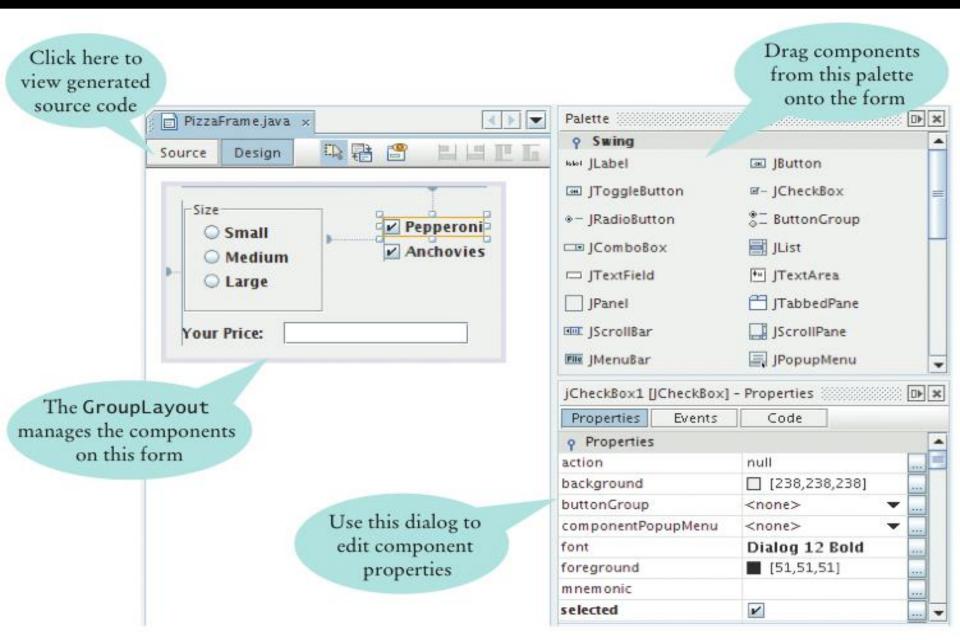


## Komponen Dasar Swing

- 1. Top-Level Container: kontainer dasar dimana komponen lainnya diletakkan (JFrame, JDialog dan Applet)
- Intermediate Container: kontainer perantara dimana komponen lainnya diletakkan (JPanel, JScrollPane, JTabbedPane, JToolbar, JSplitPane)
- 3. Atomic Component: komponen yang memiliki fungsi spesifik dan menerima interaksi langsung dari user (JButton, JLabel, JTextArea, dsb)
- 4. Layout Manager: mengatur tata letak dan posisi komponen dalam kontainer (BorderLayout, BoxLayout, FlowLayout, GridBagLayout, GridLayout)
- 5. Event Handling: menangani event yang dilakukan user (klik mouse, ketik keyboard, perbesar frame, dsb)



## Desain Aplikasi GUI dengan Netbeans



# **Top-Level Container**

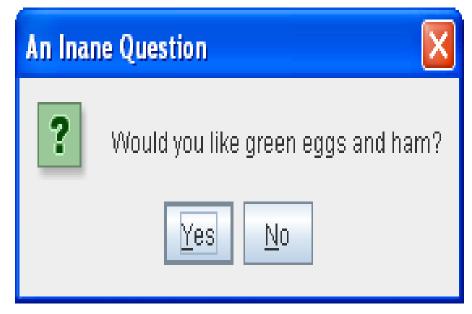
JFrame, JDialog, Applet





# **Top Level Container**







<u>JApplet</u>

JDialog

<u>JFrame</u>



#### **JFrame**

```
//1. Create the frame
JFrame frame = new JFrame("Frame Beraksi");
//2. Optional: What happens when the frame closes?
frame.setDefaultCloseOperation(JFrame.EXIT_ N_CLOSE);
//3. Create components and put them in the frame
//...create emptyLabel...
frame.getContentPane().add(emptyLabel, BorderLayout.CENTER);
//4. Size the frame
frame.pack();
//5. Show it
frame.setVisible(true);
```





### FrameBeraksi.java

```
public class FrameBeraksi {
 public static void main(String[] args){
     JFrame frame = new JFrame("Frame Beraksi");
     frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
     JLabel emptyLabel = new JLabel("Frame Beraksi");
     frame.getContentPane().add(emptyLabel);
     frame.setSize(400,200);
     frame.setVisible(true);
```

### FrameBeraksi2.java

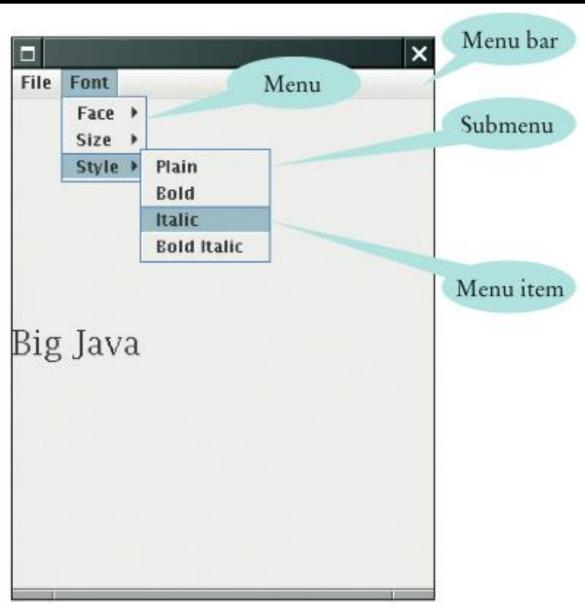
```
import javax.swing.*;
public class FrameBeraksi2 extends JFrame {
 public FrameBeraksi2() {
  super("Frame Beraksi 2");
  setSize(300, 100);
  setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
  setVisible(true);
public static void main(String[] arguments) {
  FrameBeraksi2 frame= new FrameBeraksi2();
```

## **Intermediate Container**





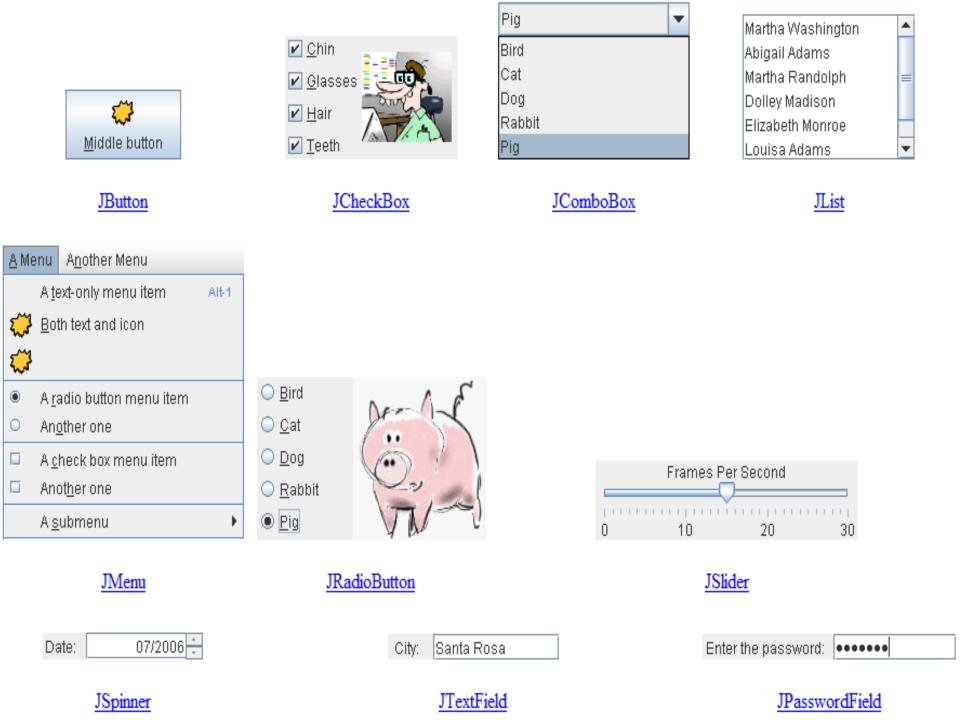
#### Menu



# **Atomic Component**

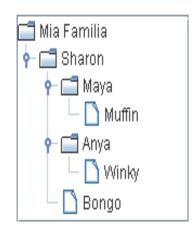






Host	User	Password	Last Modified
Biocca Games	Freddy	!#asf6Awwzb	Mar 16, 2006
zabble	ichabod	Tazb!34\$fZ	Mar 6, 2006
Sun Developer	fraz@hotmail.co	AasW541!fbZ	Feb 22, 2006
Heirloom Seeds	shams@gmail	bkz[ADF78!	Jul 29, 2005
Pacific Zoo Shop	seal@hotmail.c	vbAf124%z	Feb 22, 2006

This is an editable JTextArea. A text area is a "plain" text component, which means that although it can display text in any font, all of the text is in the same font.



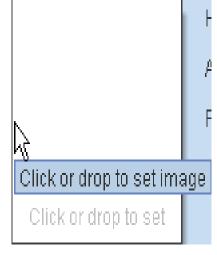
<u>JTable</u>

<u>JTextArea</u>

<u>JTree</u>



31%



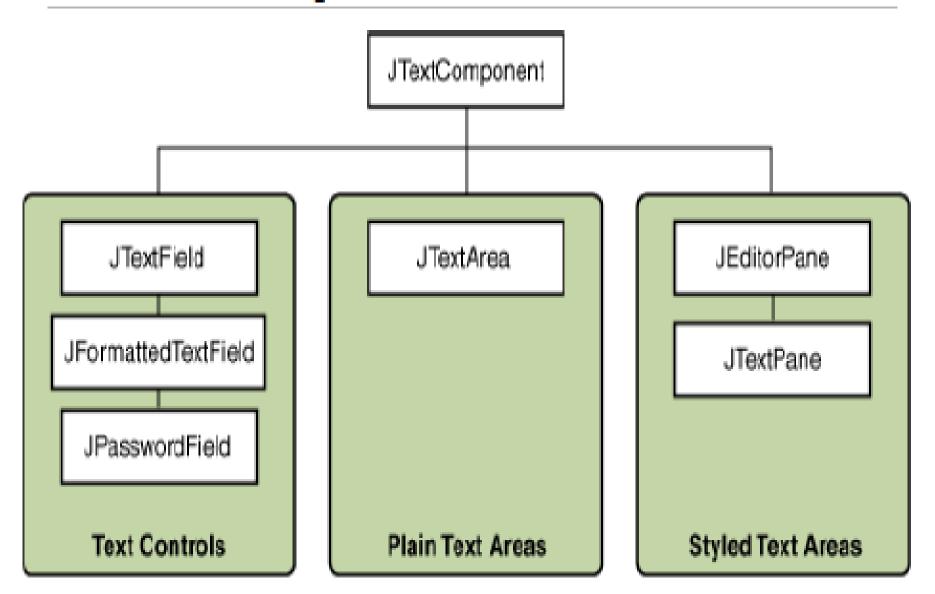
<u>JLabel</u>

JProgressBar

JSeparator

JToolTip

# **JTextComponent**





-Text Fields:

JTextField: Hello

J PasswordField: ••••

JFormattedTextField: Feb 20, 2007.

You typed "hola"

·Plain Text

This is an editable JTextArea. A text area is a "plain" text component, which means that although it can display text in any font, all of the text is in the same font.

Styled Text-

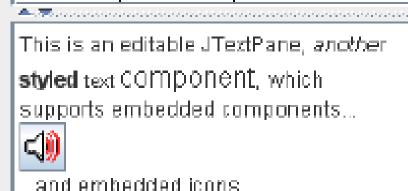


This is an uneditable

JEditor Pane, which was initialized

with HTML text form a URL.

An editor pane uses specialized editor

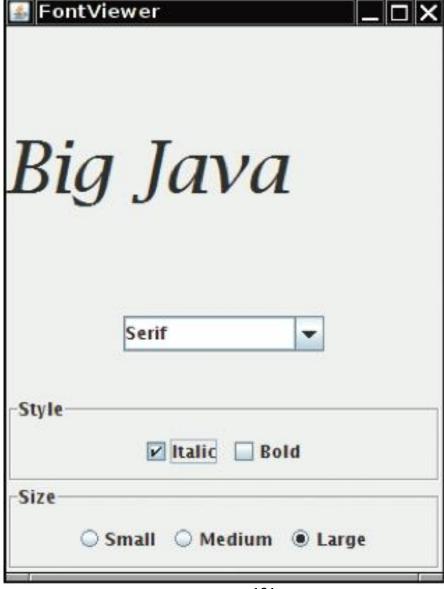




#### **JButton**

```
public class ButtonBeraksi extends JFrame {
 JButton load = new JButton("Load");
 JButton save = new JButton("Save");
 public ButtonBeraksi() {
    super("Button Beraksi");
    setSize(140, 170);
    setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
    JPanel pane = new JPanel();
    pane.add(load);
    pane.add(save);
    add(pane);
    setVisible(true);
 public static void main(String[] arguments) {
    ButtonBeraksi button = new ButtonBera
```

#### Choice with ComboBox, CheckBox, RadioButton



#### Choice with ComboBox, CheckBox, RadioButton

