# Lecture 02
# Creating Graphical User Interface
# Part 6

## Panes - Choosers

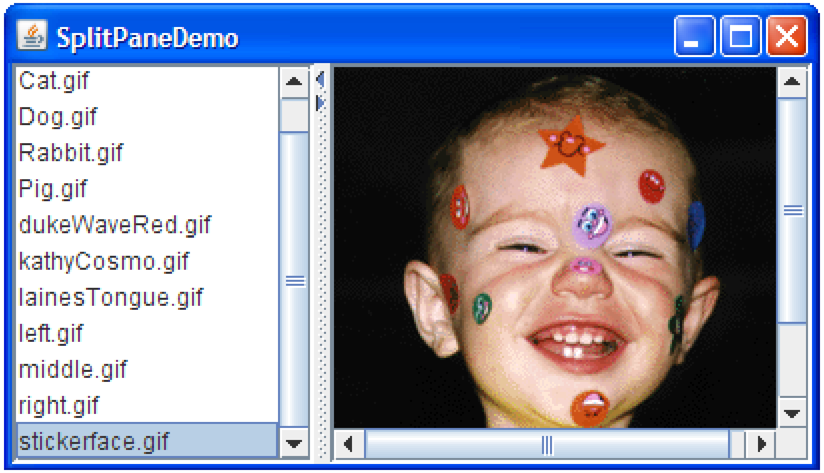
# Contents

- Using panes
- Using Java Dialogs
- Using file chooser and color chooser
- Demonstrations

# Panes

- Swing panes provide some form of container service.
- These services provide:
  - Layout managers
    - JSplitPane
    - JScrollPane
  - Dialog boxes
    - JOptionPane
    - JTabbedPane
    - JFileChooser
    - JColorChooser

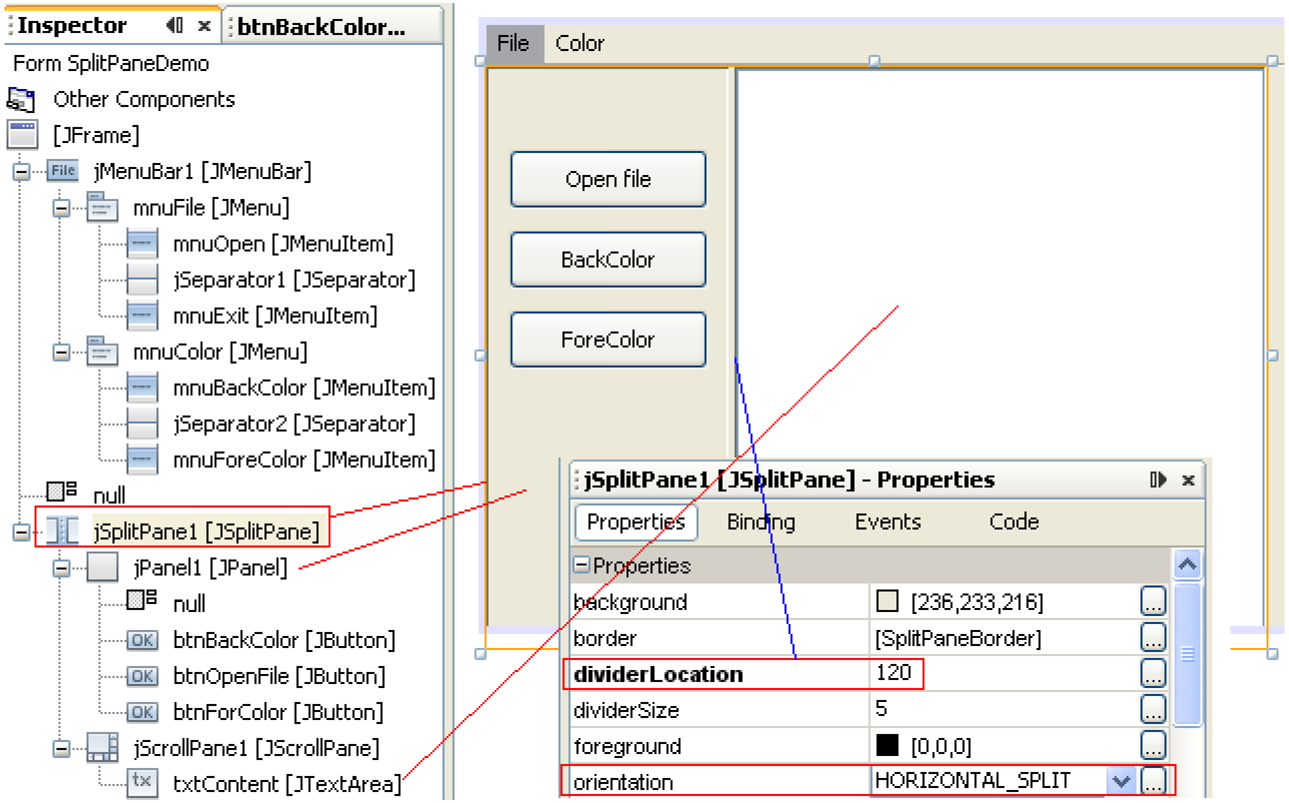
# The JSplitPane Class



- A **JSplitPane** displays two components, either side by side or one on top of the other. By dragging the divider that appears between the components, the user can specify how much of the split pane's total area goes to each component. You can divide screen space among three or more components by putting split panes inside of split panes

# Demo 11- SplitPane-Choosers

## How to use the JSplitPane, JFileChooser, JColorChooser classes?

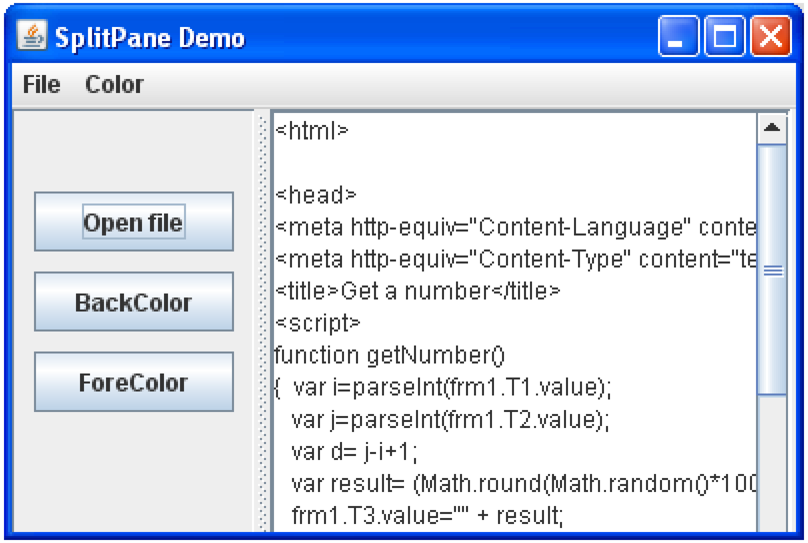


```
Inspector | btnBackColor...
Form SplitPaneDemo
  Other Components
  [JFrame]
    jMenuBar1 [JMenuBar]
      mnuFile [JMenu]
        mnuOpen [JMenuItem]
        jSeparator1 [JSeparator]
        mnuExit [JMenuItem]
      mnuColor [JMenu]
        mnuBackColor [JMenuItem]
        jSeparator2 [JSeparator]
        mnuForeColor [JMenuItem]
    null
    jSplitPane1 [JSplitPane]
      jPanel1 [JPanel]
        null
        btnBackColor [JButton]
        btnOpenFile [JButton]
        btnForColor [JButton]
      jScrollPane1 [JScrollPane]
        txtContent [JTextArea]
```

jSplitPane1 [JSplitPane] - Properties

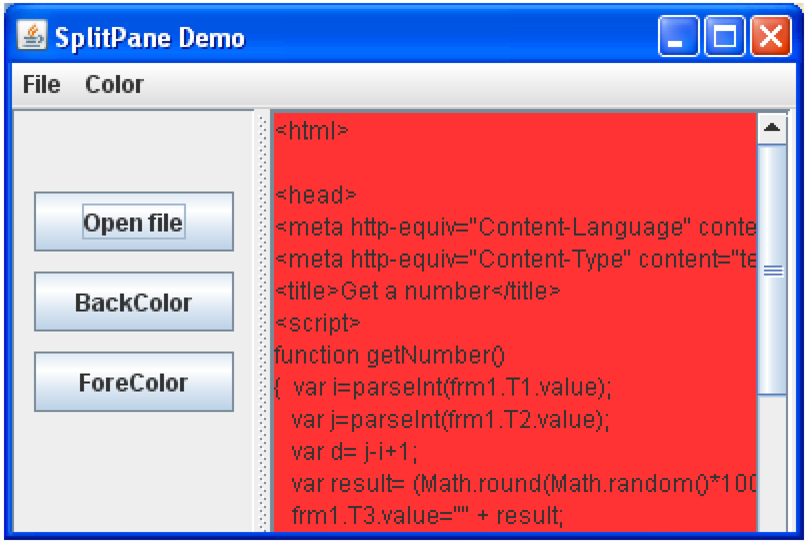
| Properties | |
|---|---|
| background | [236,233,216] |
| border | [SplitPaneBorder] |
| **dividerLocation** | 120 |
| dividerSize | 5 |
| foreground | [0,0,0] |
| orientation | HORIZONTAL_SPLIT |

# Demo 11- SplitPane-Choosers…



```
<html>

<head>
<meta http-equiv="Content-Language" conte
<meta http-equiv="Content-Type" content="te
<title>Get a number</title>
<script>
function getNumber()
{  var i=parseInt(frm1.T1.value);
   var j=parseInt(frm1.T2.value);
   var d= j-i+1;
   var result= (Math.round(Math.random()*100
   frm1.T3.value="" + result;
```



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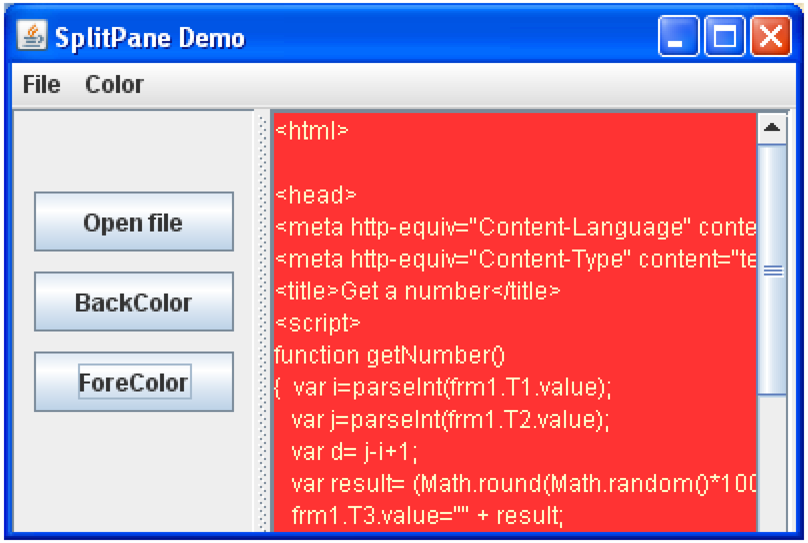

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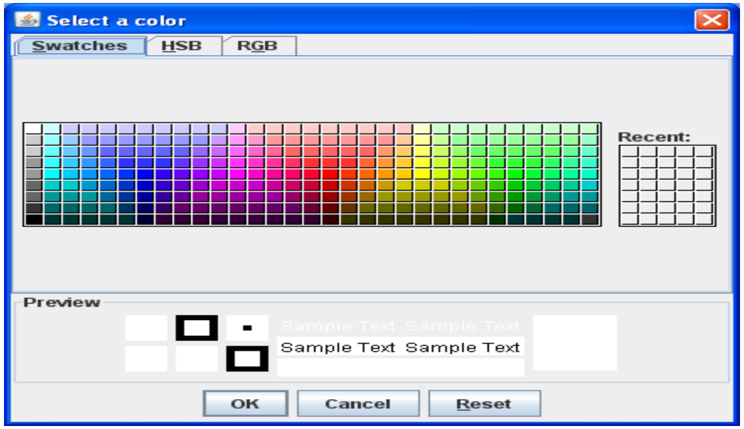
   frm1.T3.value="" + result;
```

# Demo 11- SplitPane-Choosers…

```
import java.awt.Color;
import javax.swing.JFileChooser;
import javax.swing.JColorChooser;
import javax.swing.JOptionPane;
import java.awt.Color;
import java.io.*;
public class SplitPaneDemo extends javax.swing.JFrame {
     final JColorChooser cc= new JColorChooser();
     final JFileChooser fc= new JFileChooser();
    /** Creates new form SplitPaneDemo */
    public SplitPaneDemo() {
        initComponents();
        this.setSize(400,300);
    }
```



```
private void mnuBackColorActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Color c= cc.showDialog(this, "Select a color", Color.WHITE);
    txtContent.setBackground(c);
}
```

```
private void mnuForeColorActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Color c= cc.showDialog(this, "Select a color", Color.BLACK);
    txtContent.setForeground(c);
}
```

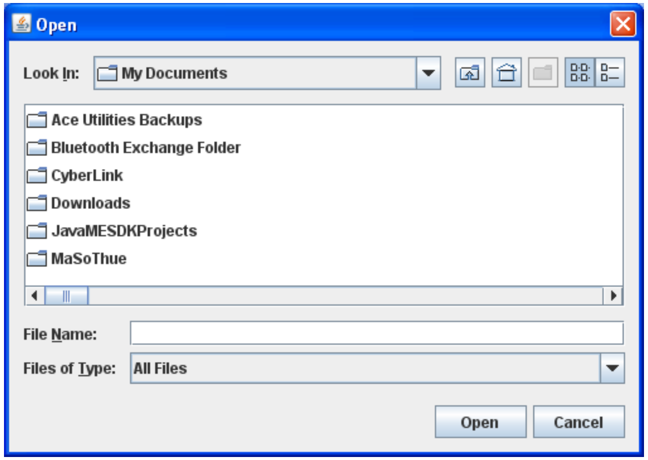
```
private void btnForColorActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    mnuForeColorActionPerformed(null);
}
```

```
private void btnBackColorActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    mnuBackColorActionPerformed(null);
```

# Demo 11- SplitPane-Choosers…

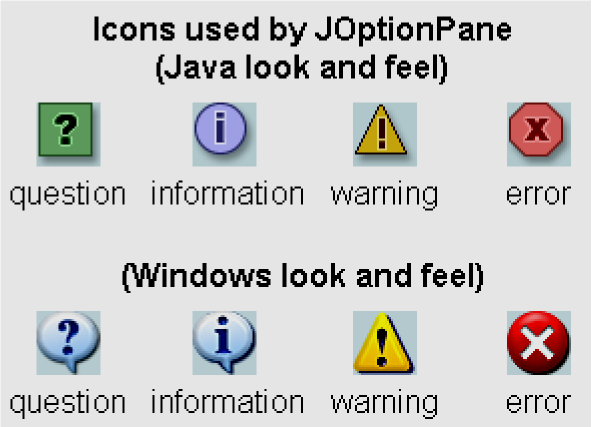
```
private void mnuOpenActionPerformed(java.awt.event.ActionEvent evt) {
    // Select and open a file
    try {
        int result= fc.showOpenDialog(this);
        if (result==JFileChooser.APPROVE_OPTION)
        {  File f= fc.getSelectedFile();
           if (f.isFile()) {
             FileReader fr= new FileReader(f);
             BufferedReader bf=new BufferedReader(fr);
             this.txtContent.setText("");
             String S, content="";
             while((S=bf.readLine())!=null) content += S + "\n";
             txtContent.setText(content);
             bf.close(); fr.close();
           }
           else{
               JOptionPane.showMessageDialog(this,"Folder!","MESSAGE",
                                                  JOptionPane.INFORMATION_MESSAGE);
           }
        }
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(this,e, "Attention!",
                          JOptionPane.ERROR_MESSAGE);
    }
}
```

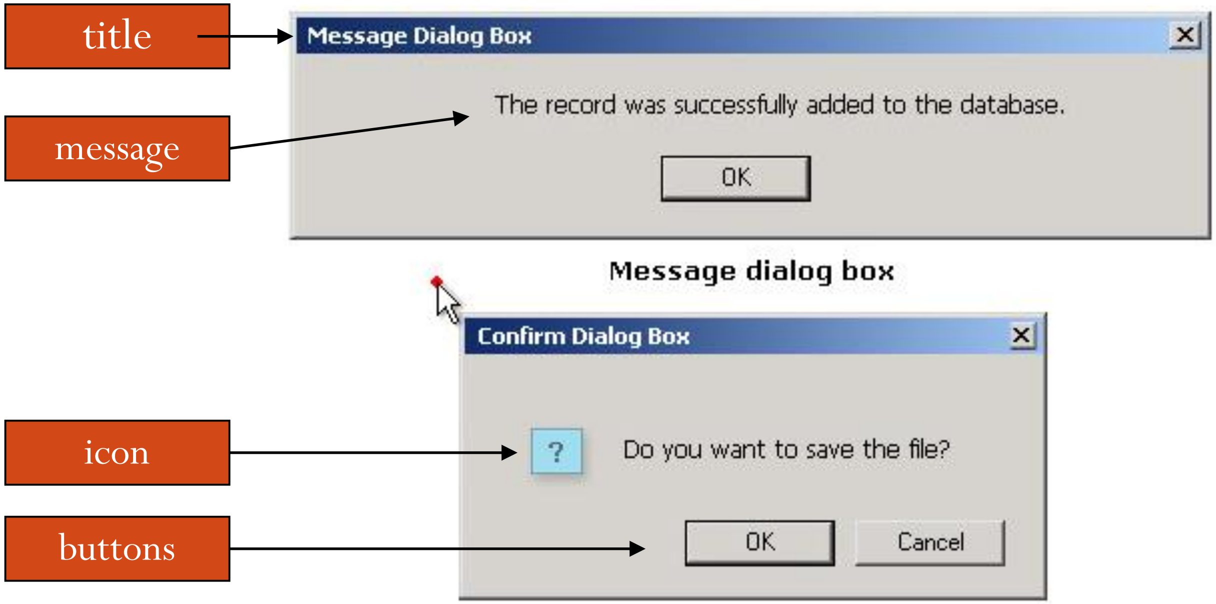
```
private void mnuExitActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}
```



```
private void btnOpenFileActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    mnuOpenActionPerformed(null);
}
```

# The JOptionPane Class





The record was successfully added to the database.

Message dialog box

Do you want to save the file?

Confirm dialog box

How to change the Java Look and feel?
3 build-in mechanisms: Metal (default), Windows, Motif.
Refer to the Java Tutorial

# Summary

- Using panes
- Using Java Dialogs
- Using file chooser and color chooser
- Demonstrations

# Thank You