

JAVA NOTES

GRAPHICAL USER INTERFACES

Terry Marris July 2001

APPENDIX D DIALOG BOXES

A dialog box pops up to either give information to a user, or get information from a user. The user is obliged to deal with the box before they can proceed any further.

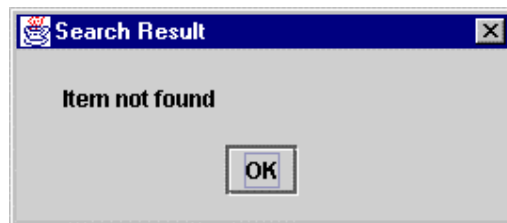


Figure D1 *A Dialog Box*

```
JOptionPane.showMessageDialog(this, // in middle of this
                             // container
                             "Item not found", // message
                             "Search Result", // title
                             JOptionPane.PLAIN_MESSAGE, // message type
                             null); // icon
```

JOptionPane has four static methods:

- *showMessageDialog* show a message and wait for the user to press ok
- showConfirmDialog* show a message and get a confirmation such as Ok or Cancel
- showOptionDialog* show a message and get a user option from a set of options.
- showInputDialog* show a message and get one line of user input

```
/* OptionDialogFrame.java
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*/

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

public class OptionDialogFrame extends JFrame {
    public OptionDialogFrame()
    {
        setTitle("Option Dialog Frame");

        Toolkit tk = Toolkit.getDefaultToolkit();
        Dimension screen = tk.getScreenSize();
        setLocation(screen.width/4, screen.height/4);
        setSize(screen.width/2, screen.height/2);

        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent e)
            {
                System.exit(0);
            }
        });
    }

    // in middle of this container "Item not found", message
    // "Search Result", title
    JOptionPane.showMessageDialog(this,
        JOptionPane.PLAIN_MESSAGE,
        null);
}

public static void main(String[] s)
{
    new OptionDialogFrame().show();
}
}
```

javax.swing.JOptionPane

Methods		
static void	showMessageDialog(Component container, Object message, String title, int messageType, Icon icon)	<i>messageType</i> ERROR_MESSAGE, INFORMATION_MESSAGE, WARNING_MESSAGE, QUESTION_MESSAGE, PLAIN_MESSAGE
static int	showConfirmDialog(Component container, Object message, String title, int optionType, int messageType, Icon icon)	<i>returns</i> OK_OPTION, CANCEL_OPTION, YES_OPTION, NO_OPTION, CLOSED_OPTION <i>messageType</i> ERROR_MESSAGE, INFORMATION_MESSAGE, WARNING_MESSAGE, QUESTION_MESSAGE, PLAIN_MESSAGE <i>optionType</i> DEFAULT_OPTION, YES_NO_OPTION, YES_NO_CANCEL_OPTION, OK_CANCEL_OPTION
static int	showOptionDialog(Component container, Object message, String title, int optionType, int messageType, Icon icon, Object[] options, Object default)	<i>returns</i> option index or CLOSED_OPTION <i>messageType</i> ERROR_MESSAGE, INFORMATION_MESSAGE, WARNING_MESSAGE, QUESTION_MESSAGE, PLAIN_MESSAGE <i>optionType</i> DEFAULT_OPTION, YES_NO_OPTION, YES_NO_CANCEL_OPTION, OK_CANCEL_OPTION
static String	showInputDialog(Component container, Object message, String title, int messageType)	<i>messageType</i> ERROR_MESSAGE, INFORMATION_MESSAGE, WARNING_MESSAGE, QUESTION_MESSAGE, PLAIN_MESSAGE

Further reading: HORSTMANN & CORNELL *Core Java 2 Volume 1* pp505