



# JDialog Example • Location of the full example: /home/233/examples/gui/9dialogExample

James Tam



# Class MyDialog

```
public class MyDialog extends JDialog implements ActionListener
{
    private static final int MATCH = 0;
    private static final String ACTUAL_PASSWORD = "123456";
    private JPasswordField aPasswordField;
    private JLabel aLabel;
    public MyDialog() {
        aLabel = new JLabel("Enter password");
        aLabel.setBounds(50,20,120,20);
        aPasswordField = new JPasswordField();
        aPasswordField.setBounds(50,40,120,20);
        aPasswordField.addActionListener(this); //Event handLer
        setLayout(null);
        addControls(); // #2
        setDefaultCloseOperation(JDialog.DISPOSE_ON_CLOSE);
    }
                                                               James Tam
```















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## The Driver Class

```
public class Driver
{
    public static void main(String [] args)
    {
        MyFrame aFrame = new MyFrame();
        aFrame.setVisible(true);
    }
}
```

### Class MyFrame public class MyFrame extends JFrame { public static final String DEFAULT\_LABEL\_STRING = "Number presses: "; public static final int WIDTH = 700; public static final int HEIGHT = 300; private MyButton frameButton; private MyButton labelButton; private JLabel aLabel; private int numPresses; public MyFrame() { numPresses = 0; initializeControls(); initializeFrame(); } James Tam









# Class To Change Label: LabelButtonListener

```
public class LabelButtonListener implements ActionListener
{
    public void actionPerformed(ActionEvent anEvent)
    {
        MyButton aButton = (MyButton) anEvent.getSource();
        MyFrame aFrame = (MyFrame) aButton.getComponent();
        aFrame.incrementPresses(); // Frame stores count
        JLabel aLabel = aFrame.getLabel();
        String s = MyFrame.DEFAULT_LABEL_STRING;
        int currentPresses = aFrame.getNumPresses();
        s = s + Integer.toString(currentPresses);
        aLabel.setText(s); // Label displays current count
    }
}
mumesTem
```



# Class To Update Frame: FrameButtonListener (2)

```
public void actionPerformed(ActionEvent anEvent)
{
   MyButton aButton = (MyButton) anEvent.getSource();
   JFrame aFrame = (JFrame) aButton.getComponent();
   aFrame.setTitle("Don't you click me! I'm in a bad
                    mood!!!");
   Random aGenerator = new Random();
   // Control randomly "runs away" based on screen size
   int x = aGenerator.nextInt(MAX X);
   int y = aGenerator.nextInt(MAX_Y);
   aFrame.setLocation(x,y); // Move control to new location
   aButton.setBackground(Color.RED); // Control is angry
   pause();
   aFrame.setTitle(""); // Angry text is gone
}
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```

