

# AWT FOCUSADAPTER CLASS

[http://www.tutorialspoint.com/awt/awt\\_focusadapter.htm](http://www.tutorialspoint.com/awt/awt_focusadapter.htm)

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## Introduction

The class **FocusAdapter** is an abstract *adapter* class for receiving keyboard focus events. All methods of this class are empty. This class is convenience class for creating listener objects.

## Class declaration

Following is the declaration for **java.awt.event.FocusAdapter** class:

```
public abstract class FocusAdapter
    extends Object
    implements FocusListener
```

## Class constructors

### S.N. Constructor & Description

1	<b>FocusAdapter</b>
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## Class methods

### S.N. Method & Description

1	<b>void focusGained</b> <i>FocusEvent</i> Invoked when a component gains the keyboard focus.
2	<b>focusLost</b> <i>FocusEvent</i> Invoked when a component loses the keyboard focus.

## Methods inherited

This class inherits methods from the following classes:

- java.lang.Object

## FocusAdapter Example

Create the following java program using any editor of your choice in say **D:/ > AWT > com > tutorialspoint > gui >**

*AwtAdapterDemo.java*

```
package com.tutorialspoint.gui;

import java.awt.*;
import java.awt.event.*;

public class AwtAdapterDemo {
    private Frame mainFrame;
```

```

private Label headerLabel;
private Label statusLabel;
private Panel controlPanel;

public AwtAdapterDemo(){
    prepareGUI();
}

public static void main(String[] args){
    AwtAdapterDemo awtAdapterDemo = new AwtAdapterDemo();
    awtAdapterDemo.showFocusAdapterDemo();
}

private void prepareGUI(){
    mainFrame = new Frame("Java AWT Examples");
    mainFrame.setSize(400,400);
    mainFrame.setLayout(new GridLayout(3, 1));
    mainFrame.addWindowListener(new WindowAdapter() {
        public void windowClosing(WindowEvent windowEvent){
            System.exit(0);
        }
    });
    headerLabel = new Label();
    headerLabel.setAlignment(Label.CENTER);
    statusLabel = new Label();
    statusLabel.setAlignment(Label.CENTER);
    statusLabel.setSize(350,100);

    controlPanel = new Panel();
    controlPanel.setLayout(new FlowLayout());

    mainFrame.add(headerLabel);
    mainFrame.add(controlPanel);
    mainFrame.add(statusLabel);
    mainFrame.setVisible(true);
}

private void showFocusAdapterDemo(){

    headerLabel.setText("Listener in action: FocusAdapter");

    Button okButton = new Button("OK");
    Button cancelButton = new Button("Cancel");
    okButton.addFocusListener(new FocusAdapter(){
        public void focusGained(FocusEvent e) {
            statusLabel.setText(statusLabel.getText()
                + e.getComponent().getClass().getSimpleName()
                + " gained focus. ");
        }
    });

    cancelButton.addFocusListener(new FocusAdapter(){
        public void focusLost(FocusEvent e) {
            statusLabel.setText(statusLabel.getText()
                + e.getComponent().getClass().getSimpleName()
                + " lost focus. ");
        }
    });

    controlPanel.add(okButton);
    controlPanel.add(cancelButton);
    mainFrame.setVisible(true);
}
}

```

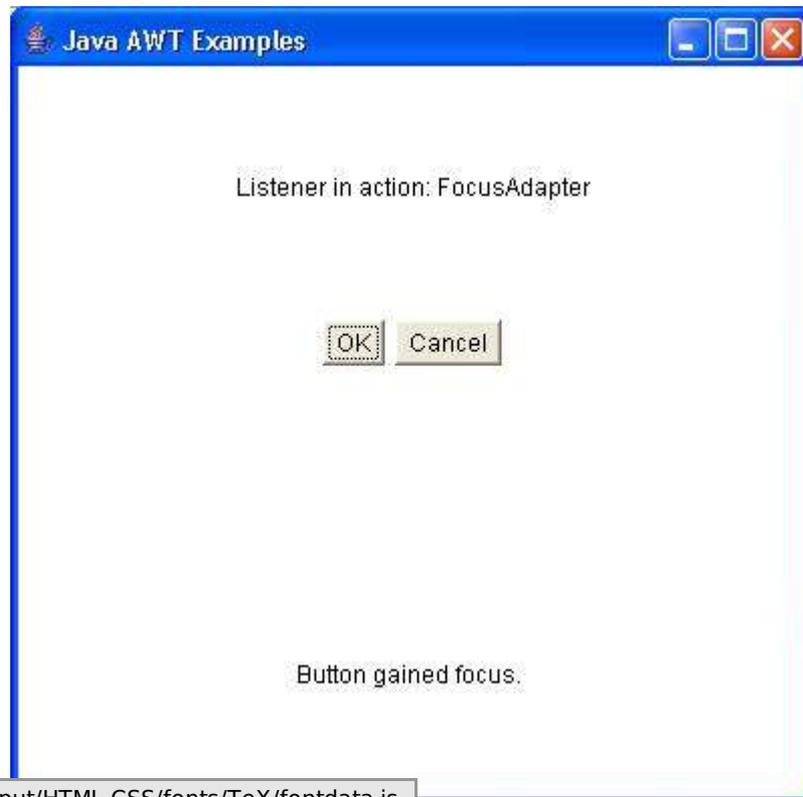
Compile the program using command prompt. Go to **D:/ > AWT** and type the following command.

```
D:\AWT>javac com\tutorialspoint\gui\AwtAdapterDemo.java
```

If no error comes that means compilation is successful. Run the program using following command.

```
D:\AWT>java com.tutorialspoint.gui.AwtAdapterDemo
```

Verify the following output



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