

AWT MOUSEADAPTER CLASS

http://www.tutorialspoint.com/awt/awt_mouseadapter.htm

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Introduction

The class **MouseAdapter** is an abstract *adapter* class for receiving mouse 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.MouseAdapter** class:

```
public abstract class MouseAdapter
    extends Object
    implements MouseListener, MouseWheelListener, MouseMotionListener
```

Class constructors

S.N.	Constructor & Description
1	MouseAdapter

Class methods

S.N.	Method & Description
1	void mouseClicked <i>MouseEvent</i> Invoked when the mouse button has been clicked <i>pressedandreleased</i> on a component.
2	void mouseDragged <i>MouseEvent</i> Invoked when a mouse button is pressed on a component and then dragged.
3	void mouseEntered <i>MouseEvent</i> Invoked when the mouse enters a component.
4	void mouseExited <i>MouseEvent</i> Invoked when the mouse exits a component.
5	void mouseMoved <i>MouseEvent</i> Invoked when the mouse cursor has been moved onto a component but no buttons have been pushed.
6	void mousePressed <i>MouseEvent</i>

Invoked when a mouse button has been pressed on a component.

7

void mouseReleased*MouseEvent*

Invoked when a mouse button has been released on a component.

8

void mouseWheelMoved*MouseWheelEvent*

Invoked when the mouse wheel is rotated.

Methods inherited

This class inherits methods from the following classes:

- java.lang.Object

MouseAdapter 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.showMouseAdapterDemo();
    }

    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 showMouseAdapterDemo(){
    headerLabel.setText("Listener in action: MouseAdapter");

    Panel panel = new Panel();
    panel.setBackground(Color.magenta);
    panel.setLayout(new FlowLayout());
    panel.addMouseListener(new MouseAdapter(){
        public void mouseClicked(MouseEvent e) {
            statusLabel.setText("Mouse Clicked: ("
                +e.getX()+"", "+e.getY() +")");
        }
    });

    Label msglabel = new Label();
    msglabel.setAlignment(Label.CENTER);
    msglabel.setText("Welcome to Tutorialspoint AWT Tutorial.");

    msglabel.addMouseListener(new MouseAdapter(){
        public void mouseClicked(MouseEvent e) {
            statusLabel.setText("Mouse Clicked: ("
                +e.getX()+"", "+e.getY() +")");
        }
    });
    panel.add(msglabel);
    controlPanel.add(panel);
    mainFrame.setVisible(true);
}
}

```

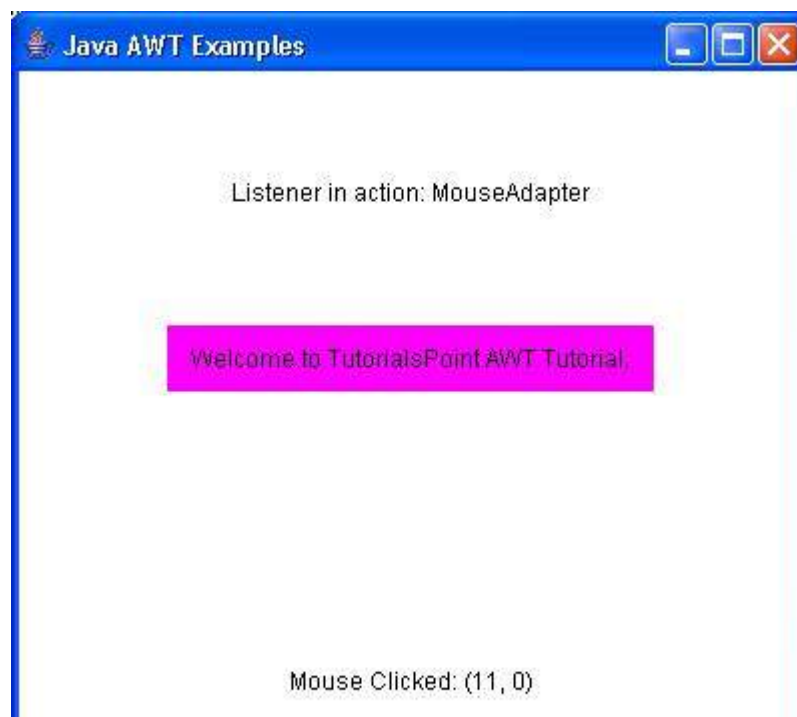
Compile the program using command prompt. Go to **D:/ > AWT** and type the following command.

```
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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