# SWING - MOUSEMOTIONADAPTER CLASS

http://www.tutorialspoint.com/swing/swing mousemotionadapter.htm

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### Introduction

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

```
public abstract class MouseMotionAdapter
  extends Object
  implements MouseMotionListener
```

#### Class constructors

## S.N. Constructor & Description

1 MouseMotionAdapter

### Class methods

## S.N. Method & Description

1 **void mouseDragged**MouseEvente

Invoked when a mouse button is pressed on a component and then dragged.

2 void mouseMovedMouseEvente

Invoked when the mouse cursor has been moved onto a component but no buttons have been pushed.

### **Methods inherited**

This class inherits methods from the following classes:

java.lang.Object

# MouseMotionAdapter Example

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

SwingAdapterDemo.java

```
package com.tutorialspoint.gui;
import java.awt.*;
import java.awt.event.*;

public class SwingAdapterDemo {
   private JFrame mainFrame;
   private JLabel headerLabel;
   private JLabel statusLabel;
```

```
private JPanel controlPanel;
   public SwingAdapterDemo(){
      prepareGUI();
   public static void main(String[] args){
      SwingAdapterDemo = new SwingAdapterDemo();
      swingAdapterDemo.showMouseMotionAdapterDemo();
   private void prepareGUI(){
      mainFrame = new JFrame("Java SWING Examples");
      mainFrame.setSize(400,400);
      mainFrame.setLayout(new GridLayout(3, 1));
      headerLabel = new JLabel("", JLabel.CENTER );
      statusLabel = new JLabel("", JLabel.CENTER);
      statusLabel.setSize(350,100);
      mainFrame.addWindowListener(new WindowAdapter() {
         public void windowClosing(WindowEvent windowEvent){
         System.exit(0);
      });
      controlPanel = new JPanel();
      controlPanel.setLayout(new FlowLayout());
      mainFrame.add(headerLabel);
      mainFrame.add(controlPanel);
      mainFrame.add(statusLabel);
      mainFrame.setVisible(true);
   private void showMouseMotionAdapterDemo(){
      headerLabel.setText("Listener in action: MouseMotionAdapter");
      JPanel panel = new JPanel();
      panel.setBackground(Color.magenta);
      panel.setLayout(new FlowLayout());
      panel.addMouseMotionListener(new MouseMotionAdapter(){
         public void mouseMoved(MouseEvent e) {
            statusLabel.setText("Mouse Moved: ("+e.getX()+", "+e.getY() +")");
      });
      JLabel msglabel
      = new JLabel("Welcome to TutorialsPoint SWING Tutorial."
      , JLabel.CENTER);
      panel.add(msglabel);
      controlPanel.add(panel);
      mainFrame.setVisible(true);
   }
}
```

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

```
D:\SWING>javac com\tutorialspoint\gui\SwingAdapterDemo.java
```

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

```
D:\SWING>java com.tutorialspoint.gui.SwingAdapterDemo
```

