



Window Events

- Write a program that demonstrates handling of window events:
 - Window opened
 - Window closing/closed
 - Window activated
 - Window deactivated
 - Window iconified
 - Window deiconified
- /usr/local/pub/sps/courses/cs2/events/WindowEvent

10/24/2005

Event Driven Programming

15



WindowAdapter

- The WindowAdapter class is a class that implements the WindowListener interface
 - The methods in this class are empty.
- To use the WindowAdapter class:
 - Extend this class to create a WindowEvent listener
 - Override the methods for the events of interest
 - Create a listener object using the extended class and then register it with a Window using the window's addWindowListener() method.

10/24/2005

Event Driven Programming

16

```
Rall T Department of
Computer Science
                                                              The Result
   import javax.swing.*;
   Import java.awt.event.*;
   public class SwingFrame {
        public static void main( String args[] ) {
           JFrame win = new JFrame( "My First GUI Program" );
            win.addWindowListener(
                new WindowAdapter() {
                     public void windowClosing( WindowEvent e ) {
                         System.exit ( 0 );
                }
            );
            win.setSize( 250, 150 );
            win.setVisible(true);
   } // SwingFrame
10/24/2005
                              Event Driven Programming
                                                                        17
```

R Department of Computer Science

Multiple Listeners

 Write a program which changes values by 1's and 2's using multiple listeners



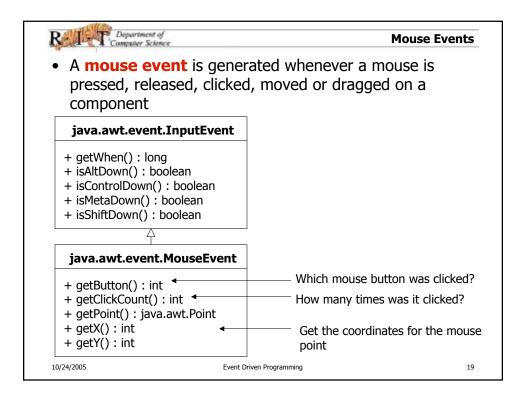
```
Listener 1 created: 0
Listener 2 created: 0
Listener 2 inc: 2
Listener 1 inc: 1
Listener 2 inc: 4
Listener 1 inc: 2
Listener 2 dec: 2
Listener 1 dec: 1
Listener 2 inc: 4
Listener 1 inc: 2
```

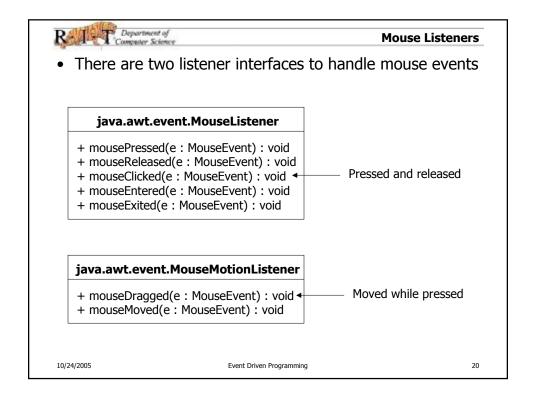
/usr/local/pub/sps/courses/cs2/events/MultipleListeners

10/24/2005

Event Driven Programming

18







ScribbleDemo

 Write a program which uses the mouse for scribbling.
 You can draw with the left mouse button and erase with the right mouse button



/usr/local/pub/sps/courses/cs2/events/ScribbleDemo

10/24/2005

Event Driven Programming

21

