

```
1: // $Id: actionevent.java,v 1.1 2013-03-08 13:19:52-08 - - $
2:
3: import java.awt.*;
4: import java.awt.event.*;
5: import javax.swing.*;
6: import static java.lang.System.*;
7:
8: class actionevent {
9:
10:     static int[] masks = {ActionEvent.ALT_MASK,(ActionEvent.CTRL_MASK,
11:                            (ActionEvent.META_MASK,(ActionEvent.SHIFT_MASK);
12:     static String[] names = {"ALT", "CTRL", "META", "SHIFT"};
13:     static String parse (int modifiers) {
14:         String result = "";
15:         for (int index = 0; index < masks.length; ++index) {
16:             if ((modifiers & masks[index]) != 0) {
17:                 result += " " + names[index];
18:                 modifiers &= ~ masks[index];
19:             }
20:         }
21:         return String.format ("0x%X", modifiers) + result;
22:     }
23:
24:     public static void main (String[] args) {
25:         JFrame frame = new JFrame ("checkbox");
26:         Container pane = frame.getContentPane ();
27:         JButton button = new JButton ("CLICK THIS");
28:         pane.add (button);
29:         button.addActionListener (new ActionListener () {
30:             public void actionPerformed (ActionEvent event) {
31:                 out.printf ("getActionCommand = \"%s\"%n",
32:                             event.getActionCommand ());
33:                 out.printf ("getModifiers = %s%n",
34:                             parse (event.getModifiers ()));
35:                 out.printf ("paramString = \"%s\"%n", event.paramString ());
36:             }
37:         });
38:         button.setFont (new Font ("Courier", Font.BOLD, 43));
39:         frame.setLocation (256, 256);
40:         frame.pack ();
41:         frame.setVisible (true);
42:     }
43:
44: }
```