

```
1: // $Id: textarea.java,v 1.1 2012-05-31 22:30:03-07 - - $
2:
3: import java.awt.*;
4: import java.awt.event.*;
5: import java.net.*;
6: import javax.swing.*;
7: import static java.lang.String.*;
8: import static java.lang.System.*;
9:
10: class textarea {
11:     static String hostport = "hostname:51966";
12:     static String username = "foobar";
13:
14:     static class confirm implements ActionListener {
15:         public void actionPerformed (ActionEvent event) {
16:             int response = JOptionPane.showConfirmDialog (null, "Really?");
17:             if (response == JOptionPane.YES_OPTION) exit (0);
18:         }
19:     }
20:
21:     static class copyfield implements ActionListener {
22:         JTextArea textarea;
23:         copyfield (JTextArea init) {
24:             textarea = init;
25:         }
26:         public void actionPerformed (ActionEvent event) {
27:             JTextField source = (JTextField) event.getSource ();
28:             String text = source.getText ();
29:             textarea.append (username + ": " + text + "\n");
30:             source.setText ("");
31:         }
32:     }
33: }
```

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34:
35:     public static void main (String[] args) {
36:         Font courier = new Font ("Courier", Font.PLAIN, 12);
37:         JFrame frame = new JFrame ("textarea");
38:         Container pane = frame.getContentPane ();
39:
40:         GridBagLayout layout = new GridBagLayout ();
41:         GridBagConstraints constraints = new GridBagConstraints ();
42:         constraints.anchor = GridBagConstraints.EAST;
43:         constraints.gridwidth = GridBagConstraints.REMAINDER;
44:
45:         Button quit = new Button ("Quit");
46:         confirm quitlistener = new confirm ();
47:         quit.addActionListener (quitlistener);
48:
49:         String spaces = "        ";
50:         pane.add (quit);
51:         pane.add (new JLabel (spaces + "Client: " + hostport));
52:         pane.add (new JLabel (spaces + "Server: " + hostport));
53:         pane.add (new JLabel (spaces + "User: foobar"));
54:         JLabel progame = new JLabel ("chatter");
55:         layout.setConstraints (progame, constraints);
56:         pane.add (progame);
57:
58:         JTextArea textarea = new JTextArea (25, 80);
59:         textarea.setEditable (false);
60:         textarea.setFont (courier);
61:         JScrollPane scroll = new JScrollPane (textarea);
62:         constraints.anchor = GridBagConstraints.WEST;
63:         layout.setConstraints (scroll, constraints);
64:
65:         JTextField textfield = new JTextField (80);
66:         textfield.setFont (courier);
67:         layout.setConstraints (textfield, constraints);
68:
69:         pane.setLayout (layout);
70:         pane.add (scroll);
71:         pane.add (textfield);
72:
73:         copyfield textlistener = new copyfield (textarea);
74:         textfield.addActionListener (textlistener);
75:
76:         frame.pack ();
77:         textfield.requestFocusInWindow ();
78:         frame.setLocation (256, 256);
79:         frame.setVisible (true);
80:         textarea.append ("Starting...\n");
81:     }
82:
83: }
84:
```