

AWT LIST CLASS

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

Copyright © tutorialspoint.com

Introduction

The List represents a list of text items. The list can be configured to that user can choose either one item or multiple items.

Class declaration

Following is the declaration for **java.awt.List** class:

```
public class List
    extends Component
    implements ItemSelectable, Accessible
```

Class constructors

S.N.	Constructor & Description
1	List Creates a new scrolling list.
2	List(introws) Creates a new scrolling list initialized with the specified number of visible lines.
3	List(introws, booleanmultipleMode) Creates a new scrolling list initialized to display the specified number of rows.

Class methods

`<T extends EventListener> T[] getListenersClass < T > listenerType`

Returns an array of all the objects currently registered as FooListeners upon this List.

S.N.	Method & Description
1	void addStringitem Adds the specified item to the end of scrolling list.
2	void addStringitem, intindex Adds the specified item to the the scrolling list at the position indicated by the index.
3	void addActionListenerActionListenerl

Adds the specified action listener to receive action events from this list.

4

void addItemStringitem

Deprecated. replaced by addString.

5

void addItemStringitem, intindex

Deprecated. replaced by addString, int.

6

void addItemListenerItemListenerl

Adds the specified item listener to receive item events from this list.

7

void addNotify

Creates the peer for the list.

8

boolean allowsMultipleSelections

Deprecated. As of JDK version 1.1, replaced by isMultipleMode.

9

void clear

Deprecated. As of JDK version 1.1, replaced by removeAll.

10

int countItems

Deprecated. As of JDK version 1.1, replaced by getItemCount.

11

void dellItemintposition

Deprecated. replaced by removeString and removeint.

12

void dellItemsintstart, intend

Deprecated. As of JDK version 1.1, Not for public use in the future. This method is expected to be retained only as a package private method.

13

void deselectintindex

Deselects the item at the specified index.

14

AccessibleContext getAccessibleContext

Gets the AccessibleContext associated with this List.

15

ActionListener[] getActionListeners

Returns an array of all the action listeners registered on this list.

16

String getItem*int index*

Gets the item associated with the specified index.

17

int getItemCount

Gets the number of items in the list.

18

ItemListener[] getItemListeners

Returns an array of all the item listeners registered on this list.

19

String[] getItems

Gets the items in the list.

20

Dimension getMinimumSize

Determines the minimum size of this scrolling list.

21

Dimension getMinimumSize*int rows*

Gets the minimum dimensions for a list with the specified number of rows.

22

Dimension getPreferredSize

Gets the preferred size of this scrolling list.

23

Dimension getPreferredSize*int rows*

Gets the preferred dimensions for a list with the specified number of rows.

24

int getRows

Gets the number of visible lines in this list.

25

int getSelectedIndex

Gets the index of the selected item on the list,

26

int[] getSelectedIndexes

Gets the selected indexes on the list.

27

String getSelectedItem

Gets the selected item on this scrolling list.

28

String[] getSelectedItems

Gets the selected items on this scrolling list.

29

Object[] getSelectedObjects

Gets the selected items on this scrolling list in an array of Objects.

30

int getVisibleIndex

Gets the index of the item that was last made visible by the method makeVisible.

31

boolean isIndexSelected*intindex*

Determines if the specified item in this scrolling list is selected.

32

boolean isMultipleMode

Determines whether this list allows multiple selections.

33

boolean isSelected*intindex*

Deprecated. As of JDK version 1.1, replaced by isIndexSelected*int*.

34

void makeVisible*intindex*

Makes the item at the specified index visible.

35

Dimension minimumSize

Deprecated. As of JDK version 1.1, replaced by getMinimumSize.

36

Dimension minimumSize*introws*

Deprecated. As of JDK version 1.1, replaced by getMinimumSize*int*.

37

protected String paramString

Returns the parameter string representing the state of this scrolling list.

38

Dimension preferredSize

Deprecated. As of JDK version 1.1, replaced by getPreferredSize.

39	Dimension preferredSize <i>introws</i> Deprecated. As of JDK version 1.1, replaced by <code>getPreferredSizeint</code> .
40	protected void processActionEvent <i>ActionEvent</i> Processes action events occurring on this component by dispatching them to any registered <code>ActionListener</code> objects.
41	protected void processEvent <i>AWTEvent</i> Processes events on this scrolling list.
42	protected void processItemEvent <i>ItemEvent</i> Processes item events occurring on this list by dispatching them to any registered <code>ItemListener</code> objects.
43	void remove <i>intposition</i> Removes the item at the specified position from this scrolling list.
44	void removeString <i>item</i> Removes the first occurrence of an item from the list.
45	void removeActionListener <i>ActionListenerl</i> Removes the specified action listener so that it no longer receives action events from this list.
46	void removeAll Removes all items from this list.
47	void removeItemListener <i>ItemListenerl</i> Removes the specified item listener so that it no longer receives item events from this list.
48	void removeNotify Removes the peer for this list.
49	void replaceItem <i>StringnewValue, intindex</i> Replaces the item at the specified index in the scrolling list with the new string.

50

void select*int index*

Selects the item at the specified index in the scrolling list.

51

void setMultipleMode*boolean b*

Sets the flag that determines whether this list allows multiple selections.

52

void setMultipleSelections*boolean b*

Deprecated. As of JDK version 1.1, replaced by `setMultipleMode`*boolean*.

Methods inherited

This class inherits methods from the following classes:

- `java.awt.Component`
- `java.lang.Object`

List Example

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

AwtControlDemo.java

```
package com.tutorialspoint.gui;

import java.awt.*;
import java.awt.event.*;

public class AwtControlDemo {

    private Frame mainFrame;
    private Label headerLabel;
    private Label statusLabel;
    private Panel controlPanel;

    public AwtControlDemo(){
        prepareGUI();
    }

    public static void main(String[] args){
        AwtControlDemo awtControlDemo = new AwtControlDemo();
        awtControlDemo.showListDemo();
    }

    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 showListDemo(){

    headerLabel.setText("Control in action: List");
    final List fruitList = new List(4, false);

    fruitList.add("Apple");
    fruitList.add("Grapes");
    fruitList.add("Mango");
    fruitList.add("Peer");

    final List vegetableList = new List(4, true);

    vegetableList.add("Lady Finger");
    vegetableList.add("Onion");
    vegetableList.add("Potato");
    vegetableList.add("Tomato");

    Button showButton = new Button("Show");

    showButton.addActionListener(new ActionListener() {

        public void actionPerformed(ActionEvent e) {
            String data = "Fruits Selected: "
                + fruitList.getItem(fruitList.getSelectedIndex());
            data += ", Vegetables selected: ";
            for(String vegetable:vegetableList.getSelectedItems()){
                data += vegetable + " ";
            }
            statusLabel.setText(data);
        }
    });

    controlPanel.add(fruitList);
    controlPanel.add(vegetableList);
    controlPanel.add(showButton);

    mainFrame.setVisible(true);
}
}

```

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

```
D:\AWT>javac com\tutorialspoint\gui\AwtControlDemo.java
```

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

```
D:\AWT>java com.tutorialspoint.gui.AwtControlDemo
```

Verify the following output



Apple	Lady Finger	Show
Grapes	Onion	
Mango	Potato	
Peer	Tomato	

Fruits Selected: Grapes, Vegetables selected: Lady Finger Onion

Loading [MathJax]/jax/output/HTML-CSS/jax.js