| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Choice.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/CheckboxMenuItem.AccessibleAWTCheckboxMenuItem.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/Choice.AccessibleAWTChoice.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/Choice.html)    [**NO FRAMES**](http://docs.google.com/Choice.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#3dy6vkm) | [CONSTR](#4d34og8) | [METHOD](#2s8eyo1) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

## **java.awt**

Class Choice

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.Component](http://docs.google.com/java/awt/Component.html)  
 **java.awt.Choice**

**All Implemented Interfaces:** [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html), [ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html), [MenuContainer](http://docs.google.com/java/awt/MenuContainer.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)

public class **Choice**extends [Component](http://docs.google.com/java/awt/Component.html)implements [ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html), [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)

The Choice class presents a pop-up menu of choices. The current choice is displayed as the title of the menu.

The following code example produces a pop-up menu:

Choice ColorChooser = new Choice();  
 ColorChooser.add("Green");  
 ColorChooser.add("Red");  
 ColorChooser.add("Blue");

After this choice menu has been added to a panel, it appears as follows in its normal state:



In the picture, "Green" is the current choice. Pushing the mouse button down on the object causes a menu to appear with the current choice highlighted.

Some native platforms do not support arbitrary resizing of Choice components and the behavior of setSize()/getSize() is bound by such limitations. Native GUI Choice components' size are often bound by such attributes as font size and length of items contained within the Choice.

**Since:** JDK1.0 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.Choice)

| **Nested Class Summary** | |
| --- | --- |
| protected  class | [**Choice.AccessibleAWTChoice**](http://docs.google.com/java/awt/Choice.AccessibleAWTChoice.html)            This class implements accessibility support for the Choice class. |

| **Nested classes/interfaces inherited from class java.awt.**[**Component**](http://docs.google.com/java/awt/Component.html) |
| --- |
| [Component.AccessibleAWTComponent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html), [Component.BaselineResizeBehavior](http://docs.google.com/java/awt/Component.BaselineResizeBehavior.html), [Component.BltBufferStrategy](http://docs.google.com/java/awt/Component.BltBufferStrategy.html), [Component.FlipBufferStrategy](http://docs.google.com/java/awt/Component.FlipBufferStrategy.html) |

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.awt.**[**Component**](http://docs.google.com/java/awt/Component.html) |
| --- |
| [BOTTOM\_ALIGNMENT](http://docs.google.com/java/awt/Component.html#BOTTOM_ALIGNMENT), [CENTER\_ALIGNMENT](http://docs.google.com/java/awt/Component.html#CENTER_ALIGNMENT), [LEFT\_ALIGNMENT](http://docs.google.com/java/awt/Component.html#LEFT_ALIGNMENT), [RIGHT\_ALIGNMENT](http://docs.google.com/java/awt/Component.html#RIGHT_ALIGNMENT), [TOP\_ALIGNMENT](http://docs.google.com/java/awt/Component.html#TOP_ALIGNMENT) |

| **Fields inherited from interface java.awt.image.**[**ImageObserver**](http://docs.google.com/java/awt/image/ImageObserver.html) |
| --- |
| [ABORT](http://docs.google.com/java/awt/image/ImageObserver.html#ABORT), [ALLBITS](http://docs.google.com/java/awt/image/ImageObserver.html#ALLBITS), [ERROR](http://docs.google.com/java/awt/image/ImageObserver.html#ERROR), [FRAMEBITS](http://docs.google.com/java/awt/image/ImageObserver.html#FRAMEBITS), [HEIGHT](http://docs.google.com/java/awt/image/ImageObserver.html#HEIGHT), [PROPERTIES](http://docs.google.com/java/awt/image/ImageObserver.html#PROPERTIES), [SOMEBITS](http://docs.google.com/java/awt/image/ImageObserver.html#SOMEBITS), [WIDTH](http://docs.google.com/java/awt/image/ImageObserver.html#WIDTH) |

| **Constructor Summary** | |
| --- | --- |
| [**Choice**](http://docs.google.com/java/awt/Choice.html#Choice())()            Creates a new choice menu. |

| **Method Summary** | |
| --- | --- |
| void | [**add**](http://docs.google.com/java/awt/Choice.html#add(java.lang.String))([String](http://docs.google.com/java/lang/String.html) item)            Adds an item to this Choice menu. |
| void | [**addItem**](http://docs.google.com/java/awt/Choice.html#addItem(java.lang.String))([String](http://docs.google.com/java/lang/String.html) item)            Obsolete as of Java 2 platform v1.1. |
| void | [**addItemListener**](http://docs.google.com/java/awt/Choice.html#addItemListener(java.awt.event.ItemListener))([ItemListener](http://docs.google.com/java/awt/event/ItemListener.html) l)            Adds the specified item listener to receive item events from this Choice menu. |
| void | [**addNotify**](http://docs.google.com/java/awt/Choice.html#addNotify())()            Creates the Choice's peer. |
| int | [**countItems**](http://docs.google.com/java/awt/Choice.html#countItems())()  **Deprecated.** *As of JDK version 1.1, replaced by getItemCount().* |
| [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) | [**getAccessibleContext**](http://docs.google.com/java/awt/Choice.html#getAccessibleContext())()            Gets the AccessibleContext associated with this Choice. |
| [String](http://docs.google.com/java/lang/String.html) | [**getItem**](http://docs.google.com/java/awt/Choice.html#getItem(int))(int index)            Gets the string at the specified index in this Choice menu. |
| int | [**getItemCount**](http://docs.google.com/java/awt/Choice.html#getItemCount())()            Returns the number of items in this Choice menu. |
| [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html)[] | [**getItemListeners**](http://docs.google.com/java/awt/Choice.html#getItemListeners())()            Returns an array of all the item listeners registered on this choice. |
| | <T extends [EventListener](http://docs.google.com/java/util/EventListener.html)>  T[] | | --- | | [**getListeners**](http://docs.google.com/java/awt/Choice.html#getListeners(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> listenerType)            Returns an array of all the objects currently registered as *Foo*Listeners upon this Choice. |
| int | [**getSelectedIndex**](http://docs.google.com/java/awt/Choice.html#getSelectedIndex())()            Returns the index of the currently selected item. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSelectedItem**](http://docs.google.com/java/awt/Choice.html#getSelectedItem())()            Gets a representation of the current choice as a string. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | [**getSelectedObjects**](http://docs.google.com/java/awt/Choice.html#getSelectedObjects())()            Returns an array (length 1) containing the currently selected item. |
| void | [**insert**](http://docs.google.com/java/awt/Choice.html#insert(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) item, int index)            Inserts the item into this choice at the specified position. |
| protected  [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/java/awt/Choice.html#paramString())()            Returns a string representing the state of this Choice menu. |
| protected  void | [**processEvent**](http://docs.google.com/java/awt/Choice.html#processEvent(java.awt.AWTEvent))([AWTEvent](http://docs.google.com/java/awt/AWTEvent.html) e)            Processes events on this choice. |
| protected  void | [**processItemEvent**](http://docs.google.com/java/awt/Choice.html#processItemEvent(java.awt.event.ItemEvent))([ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html) e)            Processes item events occurring on this Choice menu by dispatching them to any registered ItemListener objects. |
| void | [**remove**](http://docs.google.com/java/awt/Choice.html#remove(int))(int position)            Removes an item from the choice menu at the specified position. |
| void | [**remove**](http://docs.google.com/java/awt/Choice.html#remove(java.lang.String))([String](http://docs.google.com/java/lang/String.html) item)            Removes the first occurrence of item from the Choice menu. |
| void | [**removeAll**](http://docs.google.com/java/awt/Choice.html#removeAll())()            Removes all items from the choice menu. |
| void | [**removeItemListener**](http://docs.google.com/java/awt/Choice.html#removeItemListener(java.awt.event.ItemListener))([ItemListener](http://docs.google.com/java/awt/event/ItemListener.html) l)            Removes the specified item listener so that it no longer receives item events from this Choice menu. |
| void | [**select**](http://docs.google.com/java/awt/Choice.html#select(int))(int pos)            Sets the selected item in this Choice menu to be the item at the specified position. |
| void | [**select**](http://docs.google.com/java/awt/Choice.html#select(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Sets the selected item in this Choice menu to be the item whose name is equal to the specified string. |

| **Methods inherited from class java.awt.**[**Component**](http://docs.google.com/java/awt/Component.html) |
| --- |
| [action](http://docs.google.com/java/awt/Component.html#action(java.awt.Event,%20java.lang.Object)), [add](http://docs.google.com/java/awt/Component.html#add(java.awt.PopupMenu)), [addComponentListener](http://docs.google.com/java/awt/Component.html#addComponentListener(java.awt.event.ComponentListener)), [addFocusListener](http://docs.google.com/java/awt/Component.html#addFocusListener(java.awt.event.FocusListener)), [addHierarchyBoundsListener](http://docs.google.com/java/awt/Component.html#addHierarchyBoundsListener(java.awt.event.HierarchyBoundsListener)), [addHierarchyListener](http://docs.google.com/java/awt/Component.html#addHierarchyListener(java.awt.event.HierarchyListener)), [addInputMethodListener](http://docs.google.com/java/awt/Component.html#addInputMethodListener(java.awt.event.InputMethodListener)), [addKeyListener](http://docs.google.com/java/awt/Component.html#addKeyListener(java.awt.event.KeyListener)), [addMouseListener](http://docs.google.com/java/awt/Component.html#addMouseListener(java.awt.event.MouseListener)), [addMouseMotionListener](http://docs.google.com/java/awt/Component.html#addMouseMotionListener(java.awt.event.MouseMotionListener)), [addMouseWheelListener](http://docs.google.com/java/awt/Component.html#addMouseWheelListener(java.awt.event.MouseWheelListener)), [addPropertyChangeListener](http://docs.google.com/java/awt/Component.html#addPropertyChangeListener(java.beans.PropertyChangeListener)), [addPropertyChangeListener](http://docs.google.com/java/awt/Component.html#addPropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [applyComponentOrientation](http://docs.google.com/java/awt/Component.html#applyComponentOrientation(java.awt.ComponentOrientation)), [areFocusTraversalKeysSet](http://docs.google.com/java/awt/Component.html#areFocusTraversalKeysSet(int)), [bounds](http://docs.google.com/java/awt/Component.html#bounds()), [checkImage](http://docs.google.com/java/awt/Component.html#checkImage(java.awt.Image,%20java.awt.image.ImageObserver)), [checkImage](http://docs.google.com/java/awt/Component.html#checkImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver)), [coalesceEvents](http://docs.google.com/java/awt/Component.html#coalesceEvents(java.awt.AWTEvent,%20java.awt.AWTEvent)), [contains](http://docs.google.com/java/awt/Component.html#contains(int,%20int)), [contains](http://docs.google.com/java/awt/Component.html#contains(java.awt.Point)), [createImage](http://docs.google.com/java/awt/Component.html#createImage(java.awt.image.ImageProducer)), [createImage](http://docs.google.com/java/awt/Component.html#createImage(int,%20int)), [createVolatileImage](http://docs.google.com/java/awt/Component.html#createVolatileImage(int,%20int)), [createVolatileImage](http://docs.google.com/java/awt/Component.html#createVolatileImage(int,%20int,%20java.awt.ImageCapabilities)), [deliverEvent](http://docs.google.com/java/awt/Component.html#deliverEvent(java.awt.Event)), [disable](http://docs.google.com/java/awt/Component.html#disable()), [disableEvents](http://docs.google.com/java/awt/Component.html#disableEvents(long)), [dispatchEvent](http://docs.google.com/java/awt/Component.html#dispatchEvent(java.awt.AWTEvent)), [doLayout](http://docs.google.com/java/awt/Component.html#doLayout()), [enable](http://docs.google.com/java/awt/Component.html#enable()), [enable](http://docs.google.com/java/awt/Component.html#enable(boolean)), [enableEvents](http://docs.google.com/java/awt/Component.html#enableEvents(long)), [enableInputMethods](http://docs.google.com/java/awt/Component.html#enableInputMethods(boolean)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20boolean,%20boolean)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20byte,%20byte)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20char,%20char)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20double,%20double)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20float,%20float)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20int,%20int)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20long,%20long)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20short,%20short)), [getAlignmentX](http://docs.google.com/java/awt/Component.html#getAlignmentX()), [getAlignmentY](http://docs.google.com/java/awt/Component.html#getAlignmentY()), [getBackground](http://docs.google.com/java/awt/Component.html#getBackground()), [getBaseline](http://docs.google.com/java/awt/Component.html#getBaseline(int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/java/awt/Component.html#getBaselineResizeBehavior()), [getBounds](http://docs.google.com/java/awt/Component.html#getBounds()), [getBounds](http://docs.google.com/java/awt/Component.html#getBounds(java.awt.Rectangle)), [getColorModel](http://docs.google.com/java/awt/Component.html#getColorModel()), [getComponentAt](http://docs.google.com/java/awt/Component.html#getComponentAt(int,%20int)), [getComponentAt](http://docs.google.com/java/awt/Component.html#getComponentAt(java.awt.Point)), [getComponentListeners](http://docs.google.com/java/awt/Component.html#getComponentListeners()), [getComponentOrientation](http://docs.google.com/java/awt/Component.html#getComponentOrientation()), [getCursor](http://docs.google.com/java/awt/Component.html#getCursor()), [getDropTarget](http://docs.google.com/java/awt/Component.html#getDropTarget()), [getFocusCycleRootAncestor](http://docs.google.com/java/awt/Component.html#getFocusCycleRootAncestor()), [getFocusListeners](http://docs.google.com/java/awt/Component.html#getFocusListeners()), [getFocusTraversalKeys](http://docs.google.com/java/awt/Component.html#getFocusTraversalKeys(int)), [getFocusTraversalKeysEnabled](http://docs.google.com/java/awt/Component.html#getFocusTraversalKeysEnabled()), [getFont](http://docs.google.com/java/awt/Component.html#getFont()), [getFontMetrics](http://docs.google.com/java/awt/Component.html#getFontMetrics(java.awt.Font)), [getForeground](http://docs.google.com/java/awt/Component.html#getForeground()), [getGraphics](http://docs.google.com/java/awt/Component.html#getGraphics()), [getGraphicsConfiguration](http://docs.google.com/java/awt/Component.html#getGraphicsConfiguration()), [getHeight](http://docs.google.com/java/awt/Component.html#getHeight()), [getHierarchyBoundsListeners](http://docs.google.com/java/awt/Component.html#getHierarchyBoundsListeners()), [getHierarchyListeners](http://docs.google.com/java/awt/Component.html#getHierarchyListeners()), [getIgnoreRepaint](http://docs.google.com/java/awt/Component.html#getIgnoreRepaint()), [getInputContext](http://docs.google.com/java/awt/Component.html#getInputContext()), [getInputMethodListeners](http://docs.google.com/java/awt/Component.html#getInputMethodListeners()), [getInputMethodRequests](http://docs.google.com/java/awt/Component.html#getInputMethodRequests()), [getKeyListeners](http://docs.google.com/java/awt/Component.html#getKeyListeners()), [getLocale](http://docs.google.com/java/awt/Component.html#getLocale()), [getLocation](http://docs.google.com/java/awt/Component.html#getLocation()), [getLocation](http://docs.google.com/java/awt/Component.html#getLocation(java.awt.Point)), [getLocationOnScreen](http://docs.google.com/java/awt/Component.html#getLocationOnScreen()), [getMaximumSize](http://docs.google.com/java/awt/Component.html#getMaximumSize()), [getMinimumSize](http://docs.google.com/java/awt/Component.html#getMinimumSize()), [getMouseListeners](http://docs.google.com/java/awt/Component.html#getMouseListeners()), [getMouseMotionListeners](http://docs.google.com/java/awt/Component.html#getMouseMotionListeners()), [getMousePosition](http://docs.google.com/java/awt/Component.html#getMousePosition()), [getMouseWheelListeners](http://docs.google.com/java/awt/Component.html#getMouseWheelListeners()), [getName](http://docs.google.com/java/awt/Component.html#getName()), [getParent](http://docs.google.com/java/awt/Component.html#getParent()), [getPeer](http://docs.google.com/java/awt/Component.html#getPeer()), [getPreferredSize](http://docs.google.com/java/awt/Component.html#getPreferredSize()), [getPropertyChangeListeners](http://docs.google.com/java/awt/Component.html#getPropertyChangeListeners()), [getPropertyChangeListeners](http://docs.google.com/java/awt/Component.html#getPropertyChangeListeners(java.lang.String)), [getSize](http://docs.google.com/java/awt/Component.html#getSize()), [getSize](http://docs.google.com/java/awt/Component.html#getSize(java.awt.Dimension)), [getToolkit](http://docs.google.com/java/awt/Component.html#getToolkit()), [getTreeLock](http://docs.google.com/java/awt/Component.html#getTreeLock()), [getWidth](http://docs.google.com/java/awt/Component.html#getWidth()), [getX](http://docs.google.com/java/awt/Component.html#getX()), [getY](http://docs.google.com/java/awt/Component.html#getY()), [gotFocus](http://docs.google.com/java/awt/Component.html#gotFocus(java.awt.Event,%20java.lang.Object)), [handleEvent](http://docs.google.com/java/awt/Component.html#handleEvent(java.awt.Event)), [hasFocus](http://docs.google.com/java/awt/Component.html#hasFocus()), [hide](http://docs.google.com/java/awt/Component.html#hide()), [imageUpdate](http://docs.google.com/java/awt/Component.html#imageUpdate(java.awt.Image,%20int,%20int,%20int,%20int,%20int)), [inside](http://docs.google.com/java/awt/Component.html#inside(int,%20int)), [invalidate](http://docs.google.com/java/awt/Component.html#invalidate()), [isBackgroundSet](http://docs.google.com/java/awt/Component.html#isBackgroundSet()), [isCursorSet](http://docs.google.com/java/awt/Component.html#isCursorSet()), [isDisplayable](http://docs.google.com/java/awt/Component.html#isDisplayable()), [isDoubleBuffered](http://docs.google.com/java/awt/Component.html#isDoubleBuffered()), [isEnabled](http://docs.google.com/java/awt/Component.html#isEnabled()), [isFocusable](http://docs.google.com/java/awt/Component.html#isFocusable()), [isFocusCycleRoot](http://docs.google.com/java/awt/Component.html#isFocusCycleRoot(java.awt.Container)), [isFocusOwner](http://docs.google.com/java/awt/Component.html#isFocusOwner()), [isFocusTraversable](http://docs.google.com/java/awt/Component.html#isFocusTraversable()), [isFontSet](http://docs.google.com/java/awt/Component.html#isFontSet()), [isForegroundSet](http://docs.google.com/java/awt/Component.html#isForegroundSet()), [isLightweight](http://docs.google.com/java/awt/Component.html#isLightweight()), [isMaximumSizeSet](http://docs.google.com/java/awt/Component.html#isMaximumSizeSet()), [isMinimumSizeSet](http://docs.google.com/java/awt/Component.html#isMinimumSizeSet()), [isOpaque](http://docs.google.com/java/awt/Component.html#isOpaque()), [isPreferredSizeSet](http://docs.google.com/java/awt/Component.html#isPreferredSizeSet()), [isShowing](http://docs.google.com/java/awt/Component.html#isShowing()), [isValid](http://docs.google.com/java/awt/Component.html#isValid()), [isVisible](http://docs.google.com/java/awt/Component.html#isVisible()), [keyDown](http://docs.google.com/java/awt/Component.html#keyDown(java.awt.Event,%20int)), [keyUp](http://docs.google.com/java/awt/Component.html#keyUp(java.awt.Event,%20int)), [layout](http://docs.google.com/java/awt/Component.html#layout()), [list](http://docs.google.com/java/awt/Component.html#list()), [list](http://docs.google.com/java/awt/Component.html#list(java.io.PrintStream)), [list](http://docs.google.com/java/awt/Component.html#list(java.io.PrintStream,%20int)), [list](http://docs.google.com/java/awt/Component.html#list(java.io.PrintWriter)), [list](http://docs.google.com/java/awt/Component.html#list(java.io.PrintWriter,%20int)), [locate](http://docs.google.com/java/awt/Component.html#locate(int,%20int)), [location](http://docs.google.com/java/awt/Component.html#location()), [lostFocus](http://docs.google.com/java/awt/Component.html#lostFocus(java.awt.Event,%20java.lang.Object)), [minimumSize](http://docs.google.com/java/awt/Component.html#minimumSize()), [mouseDown](http://docs.google.com/java/awt/Component.html#mouseDown(java.awt.Event,%20int,%20int)), [mouseDrag](http://docs.google.com/java/awt/Component.html#mouseDrag(java.awt.Event,%20int,%20int)), [mouseEnter](http://docs.google.com/java/awt/Component.html#mouseEnter(java.awt.Event,%20int,%20int)), [mouseExit](http://docs.google.com/java/awt/Component.html#mouseExit(java.awt.Event,%20int,%20int)), [mouseMove](http://docs.google.com/java/awt/Component.html#mouseMove(java.awt.Event,%20int,%20int)), [mouseUp](http://docs.google.com/java/awt/Component.html#mouseUp(java.awt.Event,%20int,%20int)), [move](http://docs.google.com/java/awt/Component.html#move(int,%20int)), [nextFocus](http://docs.google.com/java/awt/Component.html#nextFocus()), [paint](http://docs.google.com/java/awt/Component.html#paint(java.awt.Graphics)), [paintAll](http://docs.google.com/java/awt/Component.html#paintAll(java.awt.Graphics)), [postEvent](http://docs.google.com/java/awt/Component.html#postEvent(java.awt.Event)), [preferredSize](http://docs.google.com/java/awt/Component.html#preferredSize()), [prepareImage](http://docs.google.com/java/awt/Component.html#prepareImage(java.awt.Image,%20java.awt.image.ImageObserver)), [prepareImage](http://docs.google.com/java/awt/Component.html#prepareImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver)), [print](http://docs.google.com/java/awt/Component.html#print(java.awt.Graphics)), [printAll](http://docs.google.com/java/awt/Component.html#printAll(java.awt.Graphics)), [processComponentEvent](http://docs.google.com/java/awt/Component.html#processComponentEvent(java.awt.event.ComponentEvent)), [processFocusEvent](http://docs.google.com/java/awt/Component.html#processFocusEvent(java.awt.event.FocusEvent)), [processHierarchyBoundsEvent](http://docs.google.com/java/awt/Component.html#processHierarchyBoundsEvent(java.awt.event.HierarchyEvent)), [processHierarchyEvent](http://docs.google.com/java/awt/Component.html#processHierarchyEvent(java.awt.event.HierarchyEvent)), [processInputMethodEvent](http://docs.google.com/java/awt/Component.html#processInputMethodEvent(java.awt.event.InputMethodEvent)), [processKeyEvent](http://docs.google.com/java/awt/Component.html#processKeyEvent(java.awt.event.KeyEvent)), [processMouseEvent](http://docs.google.com/java/awt/Component.html#processMouseEvent(java.awt.event.MouseEvent)), [processMouseMotionEvent](http://docs.google.com/java/awt/Component.html#processMouseMotionEvent(java.awt.event.MouseEvent)), [processMouseWheelEvent](http://docs.google.com/java/awt/Component.html#processMouseWheelEvent(java.awt.event.MouseWheelEvent)), [remove](http://docs.google.com/java/awt/Component.html#remove(java.awt.MenuComponent)), [removeComponentListener](http://docs.google.com/java/awt/Component.html#removeComponentListener(java.awt.event.ComponentListener)), [removeFocusListener](http://docs.google.com/java/awt/Component.html#removeFocusListener(java.awt.event.FocusListener)), [removeHierarchyBoundsListener](http://docs.google.com/java/awt/Component.html#removeHierarchyBoundsListener(java.awt.event.HierarchyBoundsListener)), [removeHierarchyListener](http://docs.google.com/java/awt/Component.html#removeHierarchyListener(java.awt.event.HierarchyListener)), [removeInputMethodListener](http://docs.google.com/java/awt/Component.html#removeInputMethodListener(java.awt.event.InputMethodListener)), [removeKeyListener](http://docs.google.com/java/awt/Component.html#removeKeyListener(java.awt.event.KeyListener)), [removeMouseListener](http://docs.google.com/java/awt/Component.html#removeMouseListener(java.awt.event.MouseListener)), [removeMouseMotionListener](http://docs.google.com/java/awt/Component.html#removeMouseMotionListener(java.awt.event.MouseMotionListener)), [removeMouseWheelListener](http://docs.google.com/java/awt/Component.html#removeMouseWheelListener(java.awt.event.MouseWheelListener)), [removeNotify](http://docs.google.com/java/awt/Component.html#removeNotify()), [removePropertyChangeListener](http://docs.google.com/java/awt/Component.html#removePropertyChangeListener(java.beans.PropertyChangeListener)), [removePropertyChangeListener](http://docs.google.com/java/awt/Component.html#removePropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [repaint](http://docs.google.com/java/awt/Component.html#repaint()), [repaint](http://docs.google.com/java/awt/Component.html#repaint(int,%20int,%20int,%20int)), [repaint](http://docs.google.com/java/awt/Component.html#repaint(long)), [repaint](http://docs.google.com/java/awt/Component.html#repaint(long,%20int,%20int,%20int,%20int)), [requestFocus](http://docs.google.com/java/awt/Component.html#requestFocus()), [requestFocus](http://docs.google.com/java/awt/Component.html#requestFocus(boolean)), [requestFocusInWindow](http://docs.google.com/java/awt/Component.html#requestFocusInWindow()), [requestFocusInWindow](http://docs.google.com/java/awt/Component.html#requestFocusInWindow(boolean)), [reshape](http://docs.google.com/java/awt/Component.html#reshape(int,%20int,%20int,%20int)), [resize](http://docs.google.com/java/awt/Component.html#resize(java.awt.Dimension)), [resize](http://docs.google.com/java/awt/Component.html#resize(int,%20int)), [setBackground](http://docs.google.com/java/awt/Component.html#setBackground(java.awt.Color)), [setBounds](http://docs.google.com/java/awt/Component.html#setBounds(int,%20int,%20int,%20int)), [setBounds](http://docs.google.com/java/awt/Component.html#setBounds(java.awt.Rectangle)), [setComponentOrientation](http://docs.google.com/java/awt/Component.html#setComponentOrientation(java.awt.ComponentOrientation)), [setCursor](http://docs.google.com/java/awt/Component.html#setCursor(java.awt.Cursor)), [setDropTarget](http://docs.google.com/java/awt/Component.html#setDropTarget(java.awt.dnd.DropTarget)), [setEnabled](http://docs.google.com/java/awt/Component.html#setEnabled(boolean)), [setFocusable](http://docs.google.com/java/awt/Component.html#setFocusable(boolean)), [setFocusTraversalKeys](http://docs.google.com/java/awt/Component.html#setFocusTraversalKeys(int,%20java.util.Set)), [setFocusTraversalKeysEnabled](http://docs.google.com/java/awt/Component.html#setFocusTraversalKeysEnabled(boolean)), [setFont](http://docs.google.com/java/awt/Component.html#setFont(java.awt.Font)), [setForeground](http://docs.google.com/java/awt/Component.html#setForeground(java.awt.Color)), [setIgnoreRepaint](http://docs.google.com/java/awt/Component.html#setIgnoreRepaint(boolean)), [setLocale](http://docs.google.com/java/awt/Component.html#setLocale(java.util.Locale)), [setLocation](http://docs.google.com/java/awt/Component.html#setLocation(int,%20int)), [setLocation](http://docs.google.com/java/awt/Component.html#setLocation(java.awt.Point)), [setMaximumSize](http://docs.google.com/java/awt/Component.html#setMaximumSize(java.awt.Dimension)), [setMinimumSize](http://docs.google.com/java/awt/Component.html#setMinimumSize(java.awt.Dimension)), [setName](http://docs.google.com/java/awt/Component.html#setName(java.lang.String)), [setPreferredSize](http://docs.google.com/java/awt/Component.html#setPreferredSize(java.awt.Dimension)), [setSize](http://docs.google.com/java/awt/Component.html#setSize(java.awt.Dimension)), [setSize](http://docs.google.com/java/awt/Component.html#setSize(int,%20int)), [setVisible](http://docs.google.com/java/awt/Component.html#setVisible(boolean)), [show](http://docs.google.com/java/awt/Component.html#show()), [show](http://docs.google.com/java/awt/Component.html#show(boolean)), [size](http://docs.google.com/java/awt/Component.html#size()), [toString](http://docs.google.com/java/awt/Component.html#toString()), [transferFocus](http://docs.google.com/java/awt/Component.html#transferFocus()), [transferFocusBackward](http://docs.google.com/java/awt/Component.html#transferFocusBackward()), [transferFocusUpCycle](http://docs.google.com/java/awt/Component.html#transferFocusUpCycle()), [update](http://docs.google.com/java/awt/Component.html#update(java.awt.Graphics)), [validate](http://docs.google.com/java/awt/Component.html#validate()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### Choice

public **Choice**()  
 throws [HeadlessException](http://docs.google.com/java/awt/HeadlessException.html)

Creates a new choice menu. The menu initially has no items in it.

By default, the first item added to the choice menu becomes the selected item, until a different selection is made by the user by calling one of the select methods.

**Throws:** [HeadlessException](http://docs.google.com/java/awt/HeadlessException.html) - if GraphicsEnvironment.isHeadless() returns true**See Also:**[GraphicsEnvironment.isHeadless()](http://docs.google.com/java/awt/GraphicsEnvironment.html#isHeadless()), [select(int)](http://docs.google.com/java/awt/Choice.html#select(int)), [select(java.lang.String)](http://docs.google.com/java/awt/Choice.html#select(java.lang.String))

| **Method Detail** |
| --- |

### addNotify

public void **addNotify**()

Creates the Choice's peer. This peer allows us to change the look of the Choice without changing its functionality.

**Overrides:**[addNotify](http://docs.google.com/java/awt/Component.html#addNotify()) in class [Component](http://docs.google.com/java/awt/Component.html) **See Also:**[Toolkit.createChoice(java.awt.Choice)](http://docs.google.com/java/awt/Toolkit.html#createChoice(java.awt.Choice)), [Component.getToolkit()](http://docs.google.com/java/awt/Component.html#getToolkit())

### getItemCount

public int **getItemCount**()

Returns the number of items in this Choice menu.

**Returns:**the number of items in this Choice menu**Since:** JDK1.1 **See Also:**[getItem(int)](http://docs.google.com/java/awt/Choice.html#getItem(int))

### countItems

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public int **countItems**()

**Deprecated.** *As of JDK version 1.1, replaced by getItemCount().*

### getItem

public [String](http://docs.google.com/java/lang/String.html) **getItem**(int index)

Gets the string at the specified index in this Choice menu.

**Parameters:**index - the index at which to begin**See Also:**[getItemCount()](http://docs.google.com/java/awt/Choice.html#getItemCount())

### add

public void **add**([String](http://docs.google.com/java/lang/String.html) item)

Adds an item to this Choice menu.

**Parameters:**item - the item to be added **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the item's value is null**Since:** JDK1.1

### addItem

public void **addItem**([String](http://docs.google.com/java/lang/String.html) item)

Obsolete as of Java 2 platform v1.1. Please use the add method instead.

Adds an item to this Choice menu.

**Parameters:**item - the item to be added **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the item's value is equal to null

### insert

public void **insert**([String](http://docs.google.com/java/lang/String.html) item,  
 int index)

Inserts the item into this choice at the specified position. Existing items at an index greater than or equal to index are shifted up by one to accommodate the new item. If index is greater than or equal to the number of items in this choice, item is added to the end of this choice.

If the item is the first one being added to the choice, then the item becomes selected. Otherwise, if the selected item was one of the items shifted, the first item in the choice becomes the selected item. If the selected item was no among those shifted, it remains the selected item.

**Parameters:**item - the non-null item to be insertedindex - the position at which the item should be inserted **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if index is less than 0

### remove

public void **remove**([String](http://docs.google.com/java/lang/String.html) item)

Removes the first occurrence of item from the Choice menu. If the item being removed is the currently selected item, then the first item in the choice becomes the selected item. Otherwise, the currently selected item remains selected (and the selected index is updated accordingly).

**Parameters:**item - the item to remove from this Choice menu **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the item doesn't exist in the choice menu**Since:** JDK1.1

### remove

public void **remove**(int position)

Removes an item from the choice menu at the specified position. If the item being removed is the currently selected item, then the first item in the choice becomes the selected item. Otherwise, the currently selected item remains selected (and the selected index is updated accordingly).

**Parameters:**position - the position of the item **Throws:** [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if the specified position is out of bounds**Since:** JDK1.1

### removeAll

public void **removeAll**()

Removes all items from the choice menu.

**Since:** JDK1.1 **See Also:**[remove(java.lang.String)](http://docs.google.com/java/awt/Choice.html#remove(java.lang.String))

### getSelectedItem

public [String](http://docs.google.com/java/lang/String.html) **getSelectedItem**()

Gets a representation of the current choice as a string.

**Returns:**a string representation of the currently selected item in this choice menu**See Also:**[getSelectedIndex()](http://docs.google.com/java/awt/Choice.html#getSelectedIndex())

### getSelectedObjects

public [Object](http://docs.google.com/java/lang/Object.html)[] **getSelectedObjects**()

Returns an array (length 1) containing the currently selected item. If this choice has no items, returns null.

**Specified by:**[getSelectedObjects](http://docs.google.com/java/awt/ItemSelectable.html#getSelectedObjects()) in interface [ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html) **See Also:**[ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html)

### getSelectedIndex

public int **getSelectedIndex**()

Returns the index of the currently selected item. If nothing is selected, returns -1.

**Returns:**the index of the currently selected item, or -1 if nothing is currently selected**See Also:**[getSelectedItem()](http://docs.google.com/java/awt/Choice.html#getSelectedItem())

### select

public void **select**(int pos)

Sets the selected item in this Choice menu to be the item at the specified position.

Note that this method should be primarily used to initially select an item in this component. Programmatically calling this method will *not* trigger an ItemEvent. The only way to trigger an ItemEvent is by user interaction.

**Parameters:**pos - the positon of the selected item **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified position is greater than the number of items or less than zero**See Also:**[getSelectedItem()](http://docs.google.com/java/awt/Choice.html#getSelectedItem()), [getSelectedIndex()](http://docs.google.com/java/awt/Choice.html#getSelectedIndex())

### select

public void **select**([String](http://docs.google.com/java/lang/String.html) str)

Sets the selected item in this Choice menu to be the item whose name is equal to the specified string. If more than one item matches (is equal to) the specified string, the one with the smallest index is selected.

Note that this method should be primarily used to initially select an item in this component. Programmatically calling this method will *not* trigger an ItemEvent. The only way to trigger an ItemEvent is by user interaction.

**Parameters:**str - the specified string**See Also:**[getSelectedItem()](http://docs.google.com/java/awt/Choice.html#getSelectedItem()), [getSelectedIndex()](http://docs.google.com/java/awt/Choice.html#getSelectedIndex())

### addItemListener

public void **addItemListener**([ItemListener](http://docs.google.com/java/awt/event/ItemListener.html) l)

Adds the specified item listener to receive item events from this Choice menu. Item events are sent in response to user input, but not in response to calls to select. If l is null, no exception is thrown and no action is performed.

Refer to [AWT Threading Issues](http://docs.google.com/doc-files/AWTThreadIssues.html#ListenersThreads) for details on AWT's threading model.

**Specified by:**[addItemListener](http://docs.google.com/java/awt/ItemSelectable.html#addItemListener(java.awt.event.ItemListener)) in interface [ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html) **Parameters:**l - the item listener**Since:** JDK1.1 **See Also:**[removeItemListener(java.awt.event.ItemListener)](http://docs.google.com/java/awt/Choice.html#removeItemListener(java.awt.event.ItemListener)), [getItemListeners()](http://docs.google.com/java/awt/Choice.html#getItemListeners()), [select(int)](http://docs.google.com/java/awt/Choice.html#select(int)), [ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html), [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html)

### removeItemListener

public void **removeItemListener**([ItemListener](http://docs.google.com/java/awt/event/ItemListener.html) l)

Removes the specified item listener so that it no longer receives item events from this Choice menu. If l is null, no exception is thrown and no action is performed.

Refer to [AWT Threading Issues](http://docs.google.com/doc-files/AWTThreadIssues.html#ListenersThreads) for details on AWT's threading model.

**Specified by:**[removeItemListener](http://docs.google.com/java/awt/ItemSelectable.html#removeItemListener(java.awt.event.ItemListener)) in interface [ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html) **Parameters:**l - the item listener**Since:** JDK1.1 **See Also:**[addItemListener(java.awt.event.ItemListener)](http://docs.google.com/java/awt/Choice.html#addItemListener(java.awt.event.ItemListener)), [getItemListeners()](http://docs.google.com/java/awt/Choice.html#getItemListeners()), [ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html), [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html)

### getItemListeners

public [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html)[] **getItemListeners**()

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

**Returns:**all of this choice's ItemListeners or an empty array if no item listeners are currently registered**Since:** 1.4 **See Also:**[addItemListener(java.awt.event.ItemListener)](http://docs.google.com/java/awt/Choice.html#addItemListener(java.awt.event.ItemListener)), [removeItemListener(java.awt.event.ItemListener)](http://docs.google.com/java/awt/Choice.html#removeItemListener(java.awt.event.ItemListener)), [ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html), [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html)

### getListeners

public <T extends [EventListener](http://docs.google.com/java/util/EventListener.html)> T[] **getListeners**([Class](http://docs.google.com/java/lang/Class.html)<T> listenerType)

Returns an array of all the objects currently registered as *Foo*Listeners upon this Choice. *Foo*Listeners are registered using the add*Foo*Listener method.

You can specify the listenerType argument with a class literal, such as *Foo*Listener.class. For example, you can query a Choice c for its item listeners with the following code:

ItemListener[] ils = (ItemListener[])(c.getListeners(ItemListener.class));

If no such listeners exist, this method returns an empty array.

**Overrides:**[getListeners](http://docs.google.com/java/awt/Component.html#getListeners(java.lang.Class)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**listenerType - the type of listeners requested; this parameter should specify an interface that descends from java.util.EventListener **Returns:**an array of all objects registered as *Foo*Listeners on this choice, or an empty array if no such listeners have been added **Throws:** [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - if listenerType doesn't specify a class or interface that implements java.util.EventListener**Since:** 1.3 **See Also:**[getItemListeners()](http://docs.google.com/java/awt/Choice.html#getItemListeners())

### processEvent

protected void **processEvent**([AWTEvent](http://docs.google.com/java/awt/AWTEvent.html) e)

Processes events on this choice. If the event is an instance of ItemEvent, it invokes the processItemEvent method. Otherwise, it calls its superclass's processEvent method.

Note that if the event parameter is null the behavior is unspecified and may result in an exception.

**Overrides:**[processEvent](http://docs.google.com/java/awt/Component.html#processEvent(java.awt.AWTEvent)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**e - the event**Since:** JDK1.1 **See Also:**[ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html), [processItemEvent(java.awt.event.ItemEvent)](http://docs.google.com/java/awt/Choice.html#processItemEvent(java.awt.event.ItemEvent))

### processItemEvent

protected void **processItemEvent**([ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html) e)

Processes item events occurring on this Choice menu by dispatching them to any registered ItemListener objects.

This method is not called unless item events are enabled for this component. Item events are enabled when one of the following occurs:

* An ItemListener object is registered via addItemListener.
* Item events are enabled via enableEvents.

Note that if the event parameter is null the behavior is unspecified and may result in an exception.

**Parameters:**e - the item event**Since:** JDK1.1 **See Also:**[ItemEvent](http://docs.google.com/java/awt/event/ItemEvent.html), [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html), [addItemListener(ItemListener)](http://docs.google.com/java/awt/Choice.html#addItemListener(java.awt.event.ItemListener)), [Component.enableEvents(long)](http://docs.google.com/java/awt/Component.html#enableEvents(long))

### paramString

protected [String](http://docs.google.com/java/lang/String.html) **paramString**()

Returns a string representing the state of this Choice menu. This method is intended to be used only for debugging purposes, and the content and format of the returned string may vary between implementations. The returned string may be empty but may not be null.

**Overrides:**[paramString](http://docs.google.com/java/awt/Component.html#paramString()) in class [Component](http://docs.google.com/java/awt/Component.html) **Returns:**the parameter string of this Choice menu

### getAccessibleContext

public [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) **getAccessibleContext**()

Gets the AccessibleContext associated with this Choice. For Choice components, the AccessibleContext takes the form of an AccessibleAWTChoice. A new AccessibleAWTChoice instance is created if necessary.

**Specified by:**[getAccessibleContext](http://docs.google.com/javax/accessibility/Accessible.html#getAccessibleContext()) in interface [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)**Overrides:**[getAccessibleContext](http://docs.google.com/java/awt/Component.html#getAccessibleContext()) in class [Component](http://docs.google.com/java/awt/Component.html) **Returns:**an AccessibleAWTChoice that serves as the AccessibleContext of this Choice**Since:** 1.3

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Choice.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/CheckboxMenuItem.AccessibleAWTCheckboxMenuItem.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/Choice.AccessibleAWTChoice.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/Choice.html)    [**NO FRAMES**](http://docs.google.com/Choice.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#3dy6vkm) | [CONSTR](#4d34og8) | [METHOD](#2s8eyo1) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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