**ActionListener**

**Superinterfaces**

EventListener

**Subinterfaces**

Action

**Clases que la implementan**

[AbstractAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/AbstractAction.html), [AWTEventMulticaster](https://docs.oracle.com/javase/8/docs/api/java/awt/AWTEventMulticaster.html), [BasicDesktopPaneUI.CloseAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicDesktopPaneUI.CloseAction.html), [BasicDesktopPaneUI.MaximizeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicDesktopPaneUI.MaximizeAction.html), [BasicDesktopPaneUI.MinimizeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicDesktopPaneUI.MinimizeAction.html), [BasicDesktopPaneUI.NavigateAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicDesktopPaneUI.NavigateAction.html), [BasicDesktopPaneUI.OpenAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicDesktopPaneUI.OpenAction.html), [BasicFileChooserUI.ApproveSelectionAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicFileChooserUI.ApproveSelectionAction.html), [BasicFileChooserUI.CancelSelectionAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicFileChooserUI.CancelSelectionAction.html), [BasicFileChooserUI.ChangeToParentDirectoryAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicFileChooserUI.ChangeToParentDirectoryAction.html), [BasicFileChooserUI.GoHomeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicFileChooserUI.GoHomeAction.html), [BasicFileChooserUI.NewFolderAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicFileChooserUI.NewFolderAction.html), [BasicFileChooserUI.UpdateAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicFileChooserUI.UpdateAction.html), [BasicInternalFrameTitlePane.CloseAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicInternalFrameTitlePane.CloseAction.html), [BasicInternalFrameTitlePane.IconifyAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicInternalFrameTitlePane.IconifyAction.html), [BasicInternalFrameTitlePane.MaximizeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicInternalFrameTitlePane.MaximizeAction.html), [BasicInternalFrameTitlePane.MoveAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicInternalFrameTitlePane.MoveAction.html), [BasicInternalFrameTitlePane.RestoreAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicInternalFrameTitlePane.RestoreAction.html), [BasicInternalFrameTitlePane.SizeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicInternalFrameTitlePane.SizeAction.html), [BasicOptionPaneUI.ButtonActionListener](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicOptionPaneUI.ButtonActionListener.html), [BasicScrollBarUI.ScrollListener](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicScrollBarUI.ScrollListener.html), [BasicSliderUI.ActionScroller](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSliderUI.ActionScroller.html), [BasicSliderUI.ScrollListener](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSliderUI.ScrollListener.html), [BasicSplitPaneUI.KeyboardDownRightHandler](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSplitPaneUI.KeyboardDownRightHandler.html), [BasicSplitPaneUI.KeyboardEndHandler](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSplitPaneUI.KeyboardEndHandler.html), [BasicSplitPaneUI.KeyboardHomeHandler](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSplitPaneUI.KeyboardHomeHandler.html), [BasicSplitPaneUI.KeyboardResizeToggleHandler](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSplitPaneUI.KeyboardResizeToggleHandler.html), [BasicSplitPaneUI.KeyboardUpLeftHandler](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicSplitPaneUI.KeyboardUpLeftHandler.html), [BasicTreeUI.ComponentHandler](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.ComponentHandler.html), [BasicTreeUI.TreeCancelEditingAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.TreeCancelEditingAction.html), [BasicTreeUI.TreeHomeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.TreeHomeAction.html), [BasicTreeUI.TreeIncrementAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.TreeIncrementAction.html), [BasicTreeUI.TreePageAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.TreePageAction.html), [BasicTreeUI.TreeToggleAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.TreeToggleAction.html), [BasicTreeUI.TreeTraverseAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/basic/BasicTreeUI.TreeTraverseAction.html), [DefaultCellEditor.EditorDelegate](https://docs.oracle.com/javase/8/docs/api/javax/swing/DefaultCellEditor.EditorDelegate.html), [DefaultEditorKit.BeepAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.BeepAction.html), [DefaultEditorKit.CopyAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.CopyAction.html), [DefaultEditorKit.CutAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.CutAction.html), [DefaultEditorKit.DefaultKeyTypedAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.DefaultKeyTypedAction.html), [DefaultEditorKit.InsertBreakAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.InsertBreakAction.html), [DefaultEditorKit.InsertContentAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.InsertContentAction.html), [DefaultEditorKit.InsertTabAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.InsertTabAction.html), [DefaultEditorKit.PasteAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/DefaultEditorKit.PasteAction.html), [DefaultTreeCellEditor](https://docs.oracle.com/javase/8/docs/api/javax/swing/tree/DefaultTreeCellEditor.html), [DropTarget.DropTargetAutoScroller](https://docs.oracle.com/javase/8/docs/api/java/awt/dnd/DropTarget.DropTargetAutoScroller.html), [FormView](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/html/FormView.html), [HTMLEditorKit.HTMLTextAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/html/HTMLEditorKit.HTMLTextAction.html), [HTMLEditorKit.InsertHTMLTextAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/html/HTMLEditorKit.InsertHTMLTextAction.html), [JComboBox](https://docs.oracle.com/javase/8/docs/api/javax/swing/JComboBox.html), [List.AccessibleAWTList](https://docs.oracle.com/javase/8/docs/api/java/awt/List.AccessibleAWTList.html), [MetalFileChooserUI.DirectoryComboBoxAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/plaf/metal/MetalFileChooserUI.DirectoryComboBoxAction.html), [StyledEditorKit.AlignmentAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.AlignmentAction.html), [StyledEditorKit.BoldAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.BoldAction.html), [StyledEditorKit.FontFamilyAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.FontFamilyAction.html), [StyledEditorKit.FontSizeAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.FontSizeAction.html), [StyledEditorKit.ForegroundAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.ForegroundAction.html), [StyledEditorKit.ItalicAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.ItalicAction.html), [StyledEditorKit.StyledTextAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.StyledTextAction.html), [StyledEditorKit.UnderlineAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/StyledEditorKit.UnderlineAction.html), [TextAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/text/TextAction.html), [ToolTipManager.insideTimerAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/ToolTipManager.insideTimerAction.html), [ToolTipManager.outsideTimerAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/ToolTipManager.outsideTimerAction.html), [ToolTipManager.stillInsideTimerAction](https://docs.oracle.com/javase/8/docs/api/javax/swing/ToolTipManager.stillInsideTimerAction.html)

**Explicacion**

Es una interfaz de java.awt.event . Java ActionListener es muy importante para la interactividad del usuario con una interfaz gráfica de un programa en java.

ActionListener es una interfaz del grupo Listener.

Cuando se interactúa con el programa, ya sea clicando en un botón, check box o botón, se llama a este listener. Se llama cuando ocurre la acción más común del componente suscrito, como en el caso de botón la acción seria clicarlo, Para una caja de texto seria pulsar intro, etc.

**Constructores**

Para agregar una instancia de ActionListener a un botón, se debe invocar al método addActionListener (ActionListener)

Ej:

Botón.addActionListener(this);

**Métodos**

void actionPerformed(ActionEvent e)

{

//Codigo

}

Este método se invoca cuando una acción ocurre. Recibe como parámetro ActionEvent e.

Dentro de este método se pueden realizar varias acciones en función de lo que se quiera hacer.

No solo se puede suscribir a un solo contenedor, se puede suscribir a una clase con varios contenedores, pero para este caso hay que hacer una a distinción de la fuente de laccio mediante el método e.getSource().

**Eventos asociados**

El ActionListener se asocio con la clase ActionEvent.

Esta clase hereda de AWTEvent.

Su constructor es :

public ActionEvent(Object source,int id, String command)

Source es

Sus métodos son:

* getActionCommand(), Este retorna el comando en string asociado a la acción del evento.
* getModifiers(), Retorna las “modifier key” que se presionaron durante la acción del evento
* getWhen(), Retorna el tiempo donde el evento ocurrio
* paramString(),Retorna un parámetro en forma de string para identificar a la acción del evento

Sus campos son:

* ACTION\_FIRST
* ANTION\_LAST
* ACTION\_PERFORMED\_ALT\_MASK
* CTRL\_MASK
* META\_MASL
* SHIFT\_MASK

Ejemplo IDE Jcreator

|  |
| --- |
| import java.awt.\*;  import java.awt.event.\*;  import java.applet.\*;  public class ActionListenerEjemplo1 extends Applet implements ActionListener {  //Creo un boton y un textfield para probar como interactuan con el actionlistener  Button boton;  TextField textField;  //Dos String para guardar dos mensajes  String S1;  String S2;  //Dos contadores para contar cuando se clikea el boton y se hace enter en el textfield  int i;  int j;  public void init() {  //Creo el boton y el textfield  boton = new Button("Clickeame");  textField = new TextField(30);  //Les agrego al ActionListener  boton.addActionListener(this);  textField.addActionListener(this);  //Los muestro  add(boton);  add(textField);  //Inicializo mis variables  i=1;  j=1;  S1="Clicks n"+i;  S2="TXF n"+j;  }  //El ActionPerformed que acuta en base a que se haya usado  public void actionPerformed(ActionEvent e) {  if (e.getSource() == boton) {  i++;  S1="Clicks n"+i;  }  if (e.getSource() == textField) {  j++;  S2="TXF n"+j;  }  repaint();  }  //Muestro en el applet  public void paint(Graphics g) {  g.drawString(S1, 20, 20);  g.drawString(S2, 20, 40);  }    } |

Fuentes

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