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### Class LinkedSlider

#### All Implemented Interfaces:

java.awt.image.lmageObserver, java.awt.MenuContainer, java.io.Serializable, java.util.EventListener, javax.accessibility.Accessible, javax.swing.event.ChangeListener

#### **Direct Known Subclasses:**

LinkedSlider.DoubleLinkedSlider,LinkedSlider.IntLinkedSlider

public abstract class LinkedSlider
extends javax.swing.Box
implements javax.swing.event.ChangeListener

A JSlider that displays its current position and name in JLabels next to it

#### See Also:

Serialized Form

### **Nested Class Summary**

### Nested Classes

Modifier and Type	Class and Description
static class	LinkedSlider.DoubleLinkedSlider
	A LinkedSlider that can be set to floating-point values
static class	LinkedSlider.ExponentialLinkedSlider
	A LinkedSlider that has an exponential scale, so it is much easier to pick small values (close to zero) while still allowing a range up to 1
static class	LinkedSlider.IntLinkedSlider
	A LinkedSlider that can only be set to integers

### Nested classes/interfaces inherited from class javax.swing.Box

javax.swing.Box.AccessibleBox, javax.swing.Box.Filler

# Nested classes/interfaces inherited from class javax.swing.JComponent

javax.swing.JComponent.AccessibleJComponent

### Nested classes/interfaces inherited from class java.awt.Container

java.awt.Container.AccessibleAWTContainer

### Nested classes/interfaces inherited from class java.awt.Component

java.awt.Component.Accessible AWT Component, java.awt.Component.Baseline Resize Behavior, java.awt.Component.Blt Buffer Strategy, java.awt.Component.Flip Buffer Strategy

### **Field Summary**

#### Fields

Fields	
Modifier and Type	Field and Description
protected int	max The maximum value on the slider (must be an integer)
protected int	min The minimum value on the slider (must be an integer)

protected double mul
A number to multiply all slider outputs by

javax.swing.JSlider slider
The slider that the user interacts with

# Fields inherited from class javax.swing.JComponent

accessibleContext, listenerList, TOOL\_TIP\_TEXT\_KEY, ui, UNDEFINED\_CONDITION, WHEN\_ANCESTOR\_OF\_FOCUSED\_COMPONENT, WHEN\_FOCUSED, WHEN\_IN\_FOCUSED\_WINDOW

### Fields inherited from class java.awt.Component

BOTTOM ALIGNMENT, CENTER ALIGNMENT, LEFT ALIGNMENT, RIGHT ALIGNMENT, TOP ALIGNMENT

### Fields inherited from interface java.awt.image.lmageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

### **Constructor Summary**

Constructors

#### **Constructor and Description**

LinkedSlider(java.lang.String name, int min, int max, int val)

A constructor for a LinkedSlider

# **Method Summary**

#### Methods

Modifier and Type	Method and Description
java.lang.String	getValText() This method returns a human-readable formatted number suited for the type of LinkedSlider.
abstract double	getValue()
abstract void	setValue (double val) A setter for the value of the slider
void	<pre>stateChanged(javax.swing.event.ChangeEvent e)</pre>
protected void	updateValLabel () This method updates the label on the right side that displays the current value

#### Methods inherited from class javax.swing.Box

 ${\tt createGlue, createHorizontalBox, createHorizontalGlue, createHorizontalStrut, createRigidArea, createVerticalBox, createVerticalGlue, createVerticalStrut, getAccessibleContext, paintComponent, setLayout}$ 

# Methods inherited from class javax.swing.JComponent

 $\verb| addAncestorListener|, addNotify, addVetoableChangeListener|, computeVisibleRect|, contains|, createToolTip|, disable, addNotify|, addVetoableChangeListener|, computeVisibleRect|, contains|, createToolTip|, disable|, contains|, createToolTip|, create$  $\verb|enable|, fire Property Change|, fire Property Change|, fire Property Change|, fire Veto able Change|, get Action For Key Stroke|, fire Property Change|, fire Veto able Ch$ getActionMap, getAlignmentX, getAlignmentY, getAncestorListeners, getAutoscrolls, getBaseline, getBaselineResizeBehavior, getBorder, getBounds, getClientProperty, getComponentGraphics, getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions, getDefaultLocale, getFontMetrics, getGraphics, getHeight, getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets, getInsets, getListeners, getLocation,  ${\tt getMaximumSize,\ getMinimumSize,\ getNextFocusableComponent,\ getPopupLocation,\ getPreferredSize,}$  $\tt getRegisteredKeyStrokes, \ getRootPane, \ getSize, \ getToolTipLocation, \ getToolTipText, \ getTo$  $\verb|getTopLevelAncestor|, | \verb|getTransferHandler|, | getUIClassID|, | getVerifyInputWhenFocusTarget|, | getVetoableChangeListeners|, | getVerifyInputWhenFocusTarget|, | getVetoableChangeListeners|, | getVerifyInputWhenFocusTarget|, | getVetoableChangeListeners|, | getVerifyInputWhenFocusTarget|, | getVetoableChangeListeners|, | getVetoable$ getVisibleRect, getWidth, getX, getY, grabFocus, isDoubleBuffered, isLightweightComponent, isManagingFocus, isOpaque, isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingOrigin, isPaintingTile, isRequestFocusEnabled,  $is Validate Root, \ paint, \ paintBorder, \ paintChildren, \ paintImmediately, \ paintImmediately, \ paramString, \ printAll, \ paintImmediately, \ paintImmediately, \ paramString, \ printAll, \ paintImmediately, \ paramString, \ paramString, \ paintImmediately, \ paramString, \$ printBorder, printChildren, printComponent, processComponentKeyEvent, processKeyBinding, processKeyEvent,  $\verb|processMouseEvent|, processMouseMotionEvent|, putClientProperty|, registerKeyboardAction|, r$ removeAncestorListener, removeNotify, removeVetoableChangeListener, repaint, repaint, requestDefaultFocus,  $\begin{tabular}{ll} \hline \tt requestFocus, requestFocusInWindow, requestFocusInWindow, resetKeyboardActions, reshape, revalidate, the tabular requestFocusInWindow, resetKeyboardActions, reshape, revalidate, respectively. The tabular requestFocusInWindow, resetKeyboardActions, reshape, revalidate, respectively. The tabular representation r$ scrollRectToVisible, setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground, setBorder,  $\verb|setComponentPopupMenu|, \verb|setDebugGraphicsOptions|, \verb|setDefaultLocale|, \verb|setDoubleBuffered|, \verb|setEnabled|, \verb|setDebugGraphicsOptions|, \verb|setDefaultLocale|, \verb|setDoubleBuffered|, \verb|setEnabled|, \verb|setDebugGraphicsOptions|, setDebugGraphicsOptions|, setDebugGraphicsOpti$ setFocusTraversalKeys, setFont, setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier, setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque, setPreferredSize, setRequestFocusEnabled, setToolTipText, setTransferHandler, setUI, setVerifyInputWhenFocusTarget, setVisible, unregisterKeyboardAction, update, updateUI

### Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, addImpl, addPropertyChangeListener, addPropertyChangeListener,

applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getComponentAt, getComponentAt, getComponentAt, getComponentSorder, getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy, getLayout, getMousePosition, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paintComponents, preferredSize, printComponents, processContainerEvent, processEvent, remove, remove, removeAll, removeContainerListener, setComponentZOrder, setFocusCycleRoot, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, transferFocusDownCycle, validate, validateTrae

### Methods inherited from class java.awt.Component

 $\verb|action|, add, addComponentListener|, addFocusListener|, addHierarchyBoundsListener|, addHierarchyListener|, addHierarchyBoundsListener|, addHierarchyBoundsLi$ addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, createImage, createImage, createVolatileImage,  $\verb|createVolatileImage|, disableEvents|, dispatchEvent|, enableEvents|, enableEvents|, enableInputMethods|, firePropertyChange|, dispatchEvents|, enableEvents|, enableEve$  $fire Property Change, \ fire Property Change, \ fire$  ${\tt getBounds,\ getColorModel,\ getComponentListeners,\ getComponentOrientation,\ getCursor,\ getDropTarget,}$ getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getForeground, getGraphicsConfiguration, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputContext,  ${\tt getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocate, getLocation, getLocationOnScreen, getLocation, getLocationOnScreen, getLoc$ qetMouseListeners, qetMouseMotionListeners, qetMousePosition, qetMouseWheelListeners, qetName, qetParent, qetPeer,  $\verb|getPropertyChangeListeners|, getPropertyChangeListeners|, getSize|, getToolkit|, getTreeLock|, gotFocus|, handleEvent|, getFocus|, handleEvent|, hand$ hasFocus, hide, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isEnabled, isFocusable,  $is Focus Owner, \ is Focus Traversable, \ is Fort Set, \ is Foreground Set, \ is Lightweight, \ is Maximum Size Set, \ is Minimum Size$ isPreferredSizeSet, isShowing, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, postEvent, prepareImage, prepareImage, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processMouseWheelEvent, remove, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener,  ${\tt remove Mouse Listener, remove Mouse Motion Listener, remove Mouse Wheel Listener, remove Property Change Listener, remove Mouse Mouse$ removePropertyChangeListener, repaint, repaint, repaint, resize, resize, setBounds, setBounds, setComponentOrientation, setCursor, setDropTarget, setFocusable, setFocusTraversalKeysEnabled, setIgnoreRepaint, setLocale, setLocation, setLocation, setName, setSize, setSize, show, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

#### **Field Detail**

### slider

public javax.swing.JSlider slider

The slider that the user interacts with

#### min

protected int min

The minimum value on the slider (must be an integer)

#### max

protected int max

The maximum value on the slider (must be an integer)

#### mul

protected double mul

A number to multiply all slider outputs by

#### **Constructor Detail**

#### LinkedSlider

int val)

A constructor for a LinkedSlider

#### Parameters:

name - The name of the slider

min - The minimum value

max - The maximum value

val - The initial value

#### **Method Detail**

#### setValue

public abstract void setValue(double val)

A setter for the value of the slider

### Parameters:

val - the value to set the slider to

# stateChanged

public void stateChanged(javax.swing.event.ChangeEvent e)

#### Specified by:

 $\verb|stateChanged| in interface \verb|javax.swing.event.ChangeListener|$ 

# updateValLabel

protected void updateValLabel()

This method updates the label on the right side that displays the current value

# getValText

public java.lang.String getValText()

This method returns a human-readable formatted number suited for the type of LinkedSlider. It is used to show the current value on the slider

## Returns:

The string that is shown in the JLabel to the right of the slider

### getValue

public abstract double getValue()

### Returns:

The current value

