| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultListCellRenderer.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/javax/swing/DefaultFocusManager.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DefaultListCellRenderer.UIResource.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultListCellRenderer.html)    [**NO FRAMES**](http://docs.google.com/DefaultListCellRenderer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#2s8eyo1) | [CONSTR](#1ksv4uv) | [METHOD](#44sinio) | DETAIL: [FIELD](#2xcytpi) | [CONSTR](#3whwml4) | [METHOD](#qsh70q) |

## **javax.swing**

Class DefaultListCellRenderer

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.Component](http://docs.google.com/java/awt/Component.html)  
 [java.awt.Container](http://docs.google.com/java/awt/Container.html)  
 [javax.swing.JComponent](http://docs.google.com/javax/swing/JComponent.html)  
 [javax.swing.JLabel](http://docs.google.com/javax/swing/JLabel.html)  
 **javax.swing.DefaultListCellRenderer**

**All Implemented Interfaces:** [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.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), [ListCellRenderer](http://docs.google.com/javax/swing/ListCellRenderer.html), [SwingConstants](http://docs.google.com/javax/swing/SwingConstants.html) **Direct Known Subclasses:** [DefaultListCellRenderer.UIResource](http://docs.google.com/javax/swing/DefaultListCellRenderer.UIResource.html), [MetalFileChooserUI.FileRenderer](http://docs.google.com/javax/swing/plaf/metal/MetalFileChooserUI.FileRenderer.html), [MetalFileChooserUI.FilterComboBoxRenderer](http://docs.google.com/javax/swing/plaf/metal/MetalFileChooserUI.FilterComboBoxRenderer.html)

public class **DefaultListCellRenderer**extends [JLabel](http://docs.google.com/javax/swing/JLabel.html)implements [ListCellRenderer](http://docs.google.com/javax/swing/ListCellRenderer.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

Renders an item in a list.

**Implementation Note:** This class overrides invalidate, validate, revalidate, repaint, isOpaque, and firePropertyChange solely to improve performance. If not overridden, these frequently called methods would execute code paths that are unnecessary for the default list cell renderer. If you write your own renderer, take care to weigh the benefits and drawbacks of overriding these methods.

**Warning:** Serialized objects of this class will not be compatible with future Swing releases. The current serialization support is appropriate for short term storage or RMI between applications running the same version of Swing. As of 1.4, support for long term storage of all JavaBeansTM has been added to the java.beans package. Please see [XMLEncoder](http://docs.google.com/java/beans/XMLEncoder.html).

| **Nested Class Summary** | |
| --- | --- |
| static class | [**DefaultListCellRenderer.UIResource**](http://docs.google.com/javax/swing/DefaultListCellRenderer.UIResource.html)            A subclass of DefaultListCellRenderer that implements UIResource. |

| **Nested classes/interfaces inherited from class javax.swing.**[**JLabel**](http://docs.google.com/javax/swing/JLabel.html) |
| --- |
| [JLabel.AccessibleJLabel](http://docs.google.com/javax/swing/JLabel.AccessibleJLabel.html) |

| **Nested classes/interfaces inherited from class javax.swing.**[**JComponent**](http://docs.google.com/javax/swing/JComponent.html) |
| --- |
| [JComponent.AccessibleJComponent](http://docs.google.com/javax/swing/JComponent.AccessibleJComponent.html) |

| **Nested classes/interfaces inherited from class java.awt.**[**Container**](http://docs.google.com/java/awt/Container.html) |
| --- |
| [Container.AccessibleAWTContainer](http://docs.google.com/java/awt/Container.AccessibleAWTContainer.html) |

| **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** | |
| --- | --- |
| protected static [Border](http://docs.google.com/javax/swing/border/Border.html) | [**noFocusBorder**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#noFocusBorder)            An empty Border. |

| **Fields inherited from class javax.swing.**[**JLabel**](http://docs.google.com/javax/swing/JLabel.html) |
| --- |
| [labelFor](http://docs.google.com/javax/swing/JLabel.html#labelFor) |

| **Fields inherited from class javax.swing.**[**JComponent**](http://docs.google.com/javax/swing/JComponent.html) |
| --- |
| [accessibleContext](http://docs.google.com/javax/swing/JComponent.html#accessibleContext), [listenerList](http://docs.google.com/javax/swing/JComponent.html#listenerList), [TOOL\_TIP\_TEXT\_KEY](http://docs.google.com/javax/swing/JComponent.html#TOOL_TIP_TEXT_KEY), [ui](http://docs.google.com/javax/swing/JComponent.html#ui), [UNDEFINED\_CONDITION](http://docs.google.com/javax/swing/JComponent.html#UNDEFINED_CONDITION), [WHEN\_ANCESTOR\_OF\_FOCUSED\_COMPONENT](http://docs.google.com/javax/swing/JComponent.html#WHEN_ANCESTOR_OF_FOCUSED_COMPONENT), [WHEN\_FOCUSED](http://docs.google.com/javax/swing/JComponent.html#WHEN_FOCUSED), [WHEN\_IN\_FOCUSED\_WINDOW](http://docs.google.com/javax/swing/JComponent.html#WHEN_IN_FOCUSED_WINDOW) |

| **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 javax.swing.**[**SwingConstants**](http://docs.google.com/javax/swing/SwingConstants.html) |
| --- |
| [BOTTOM](http://docs.google.com/javax/swing/SwingConstants.html#BOTTOM), [CENTER](http://docs.google.com/javax/swing/SwingConstants.html#CENTER), [EAST](http://docs.google.com/javax/swing/SwingConstants.html#EAST), [HORIZONTAL](http://docs.google.com/javax/swing/SwingConstants.html#HORIZONTAL), [LEADING](http://docs.google.com/javax/swing/SwingConstants.html#LEADING), [LEFT](http://docs.google.com/javax/swing/SwingConstants.html#LEFT), [NEXT](http://docs.google.com/javax/swing/SwingConstants.html#NEXT), [NORTH](http://docs.google.com/javax/swing/SwingConstants.html#NORTH), [NORTH\_EAST](http://docs.google.com/javax/swing/SwingConstants.html#NORTH_EAST), [NORTH\_WEST](http://docs.google.com/javax/swing/SwingConstants.html#NORTH_WEST), [PREVIOUS](http://docs.google.com/javax/swing/SwingConstants.html#PREVIOUS), [RIGHT](http://docs.google.com/javax/swing/SwingConstants.html#RIGHT), [SOUTH](http://docs.google.com/javax/swing/SwingConstants.html#SOUTH), [SOUTH\_EAST](http://docs.google.com/javax/swing/SwingConstants.html#SOUTH_EAST), [SOUTH\_WEST](http://docs.google.com/javax/swing/SwingConstants.html#SOUTH_WEST), [TOP](http://docs.google.com/javax/swing/SwingConstants.html#TOP), [TRAILING](http://docs.google.com/javax/swing/SwingConstants.html#TRAILING), [VERTICAL](http://docs.google.com/javax/swing/SwingConstants.html#VERTICAL), [WEST](http://docs.google.com/javax/swing/SwingConstants.html#WEST) |

| **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** | |
| --- | --- |
| [**DefaultListCellRenderer**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#DefaultListCellRenderer())()            Constructs a default renderer object for an item in a list. |

| **Method Summary** | |
| --- | --- |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20boolean,%20boolean))([String](http://docs.google.com/java/lang/String.html) propertyName, boolean oldValue, boolean newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20byte,%20byte))([String](http://docs.google.com/java/lang/String.html) propertyName, byte oldValue, byte newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20char,%20char))([String](http://docs.google.com/java/lang/String.html) propertyName, char oldValue, char newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20double,%20double))([String](http://docs.google.com/java/lang/String.html) propertyName, double oldValue, double newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20float,%20float))([String](http://docs.google.com/java/lang/String.html) propertyName, float oldValue, float newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) propertyName, int oldValue, int newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20long,%20long))([String](http://docs.google.com/java/lang/String.html) propertyName, long oldValue, long newValue)            Overridden for performance reasons. |
| protected  void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) propertyName, [Object](http://docs.google.com/java/lang/Object.html) oldValue, [Object](http://docs.google.com/java/lang/Object.html) newValue)            Overridden for performance reasons. |
| void | [**firePropertyChange**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#firePropertyChange(java.lang.String,%20short,%20short))([String](http://docs.google.com/java/lang/String.html) propertyName, short oldValue, short newValue)            Overridden for performance reasons. |
| [Component](http://docs.google.com/java/awt/Component.html) | [**getListCellRendererComponent**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#getListCellRendererComponent(javax.swing.JList,%20java.lang.Object,%20int,%20boolean,%20boolean))([JList](http://docs.google.com/javax/swing/JList.html) list, [Object](http://docs.google.com/java/lang/Object.html) value, int index, boolean isSelected, boolean cellHasFocus)            Return a component that has been configured to display the specified value. |
| void | [**invalidate**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#invalidate())()            Overridden for performance reasons. |
| boolean | [**isOpaque**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#isOpaque())()            Overridden for performance reasons. |
| void | [**repaint**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#repaint())()            Overridden for performance reasons. |
| void | [**repaint**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#repaint(long,%20int,%20int,%20int,%20int))(long tm, int x, int y, int width, int height)            Overridden for performance reasons. |
| void | [**repaint**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#repaint(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Overridden for performance reasons. |
| void | [**revalidate**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#revalidate())()            Overridden for performance reasons. |
| void | [**validate**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#validate())()            Overridden for performance reasons. |

| **Methods inherited from class javax.swing.**[**JLabel**](http://docs.google.com/javax/swing/JLabel.html) |
| --- |
| [checkHorizontalKey](http://docs.google.com/javax/swing/JLabel.html#checkHorizontalKey(int,%20java.lang.String)), [checkVerticalKey](http://docs.google.com/javax/swing/JLabel.html#checkVerticalKey(int,%20java.lang.String)), [getAccessibleContext](http://docs.google.com/javax/swing/JLabel.html#getAccessibleContext()), [getDisabledIcon](http://docs.google.com/javax/swing/JLabel.html#getDisabledIcon()), [getDisplayedMnemonic](http://docs.google.com/javax/swing/JLabel.html#getDisplayedMnemonic()), [getDisplayedMnemonicIndex](http://docs.google.com/javax/swing/JLabel.html#getDisplayedMnemonicIndex()), [getHorizontalAlignment](http://docs.google.com/javax/swing/JLabel.html#getHorizontalAlignment()), [getHorizontalTextPosition](http://docs.google.com/javax/swing/JLabel.html#getHorizontalTextPosition()), [getIcon](http://docs.google.com/javax/swing/JLabel.html#getIcon()), [getIconTextGap](http://docs.google.com/javax/swing/JLabel.html#getIconTextGap()), [getLabelFor](http://docs.google.com/javax/swing/JLabel.html#getLabelFor()), [getText](http://docs.google.com/javax/swing/JLabel.html#getText()), [getUI](http://docs.google.com/javax/swing/JLabel.html#getUI()), [getUIClassID](http://docs.google.com/javax/swing/JLabel.html#getUIClassID()), [getVerticalAlignment](http://docs.google.com/javax/swing/JLabel.html#getVerticalAlignment()), [getVerticalTextPosition](http://docs.google.com/javax/swing/JLabel.html#getVerticalTextPosition()), [imageUpdate](http://docs.google.com/javax/swing/JLabel.html#imageUpdate(java.awt.Image,%20int,%20int,%20int,%20int,%20int)), [paramString](http://docs.google.com/javax/swing/JLabel.html#paramString()), [setDisabledIcon](http://docs.google.com/javax/swing/JLabel.html#setDisabledIcon(javax.swing.Icon)), [setDisplayedMnemonic](http://docs.google.com/javax/swing/JLabel.html#setDisplayedMnemonic(char)), [setDisplayedMnemonic](http://docs.google.com/javax/swing/JLabel.html#setDisplayedMnemonic(int)), [setDisplayedMnemonicIndex](http://docs.google.com/javax/swing/JLabel.html#setDisplayedMnemonicIndex(int)), [setHorizontalAlignment](http://docs.google.com/javax/swing/JLabel.html#setHorizontalAlignment(int)), [setHorizontalTextPosition](http://docs.google.com/javax/swing/JLabel.html#setHorizontalTextPosition(int)), [setIcon](http://docs.google.com/javax/swing/JLabel.html#setIcon(javax.swing.Icon)), [setIconTextGap](http://docs.google.com/javax/swing/JLabel.html#setIconTextGap(int)), [setLabelFor](http://docs.google.com/javax/swing/JLabel.html#setLabelFor(java.awt.Component)), [setText](http://docs.google.com/javax/swing/JLabel.html#setText(java.lang.String)), [setUI](http://docs.google.com/javax/swing/JLabel.html#setUI(javax.swing.plaf.LabelUI)), [setVerticalAlignment](http://docs.google.com/javax/swing/JLabel.html#setVerticalAlignment(int)), [setVerticalTextPosition](http://docs.google.com/javax/swing/JLabel.html#setVerticalTextPosition(int)), [updateUI](http://docs.google.com/javax/swing/JLabel.html#updateUI()) |

| **Methods inherited from class javax.swing.**[**JComponent**](http://docs.google.com/javax/swing/JComponent.html) |
| --- |
| [addAncestorListener](http://docs.google.com/javax/swing/JComponent.html#addAncestorListener(javax.swing.event.AncestorListener)), [addNotify](http://docs.google.com/javax/swing/JComponent.html#addNotify()), [addVetoableChangeListener](http://docs.google.com/javax/swing/JComponent.html#addVetoableChangeListener(java.beans.VetoableChangeListener)), [computeVisibleRect](http://docs.google.com/javax/swing/JComponent.html#computeVisibleRect(java.awt.Rectangle)), [contains](http://docs.google.com/javax/swing/JComponent.html#contains(int,%20int)), [createToolTip](http://docs.google.com/javax/swing/JComponent.html#createToolTip()), [disable](http://docs.google.com/javax/swing/JComponent.html#disable()), [enable](http://docs.google.com/javax/swing/JComponent.html#enable()), [fireVetoableChange](http://docs.google.com/javax/swing/JComponent.html#fireVetoableChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [getActionForKeyStroke](http://docs.google.com/javax/swing/JComponent.html#getActionForKeyStroke(javax.swing.KeyStroke)), [getActionMap](http://docs.google.com/javax/swing/JComponent.html#getActionMap()), [getAlignmentX](http://docs.google.com/javax/swing/JComponent.html#getAlignmentX()), [getAlignmentY](http://docs.google.com/javax/swing/JComponent.html#getAlignmentY()), [getAncestorListeners](http://docs.google.com/javax/swing/JComponent.html#getAncestorListeners()), [getAutoscrolls](http://docs.google.com/javax/swing/JComponent.html#getAutoscrolls()), [getBaseline](http://docs.google.com/javax/swing/JComponent.html#getBaseline(int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/javax/swing/JComponent.html#getBaselineResizeBehavior()), [getBorder](http://docs.google.com/javax/swing/JComponent.html#getBorder()), [getBounds](http://docs.google.com/javax/swing/JComponent.html#getBounds(java.awt.Rectangle)), [getClientProperty](http://docs.google.com/javax/swing/JComponent.html#getClientProperty(java.lang.Object)), [getComponentGraphics](http://docs.google.com/javax/swing/JComponent.html#getComponentGraphics(java.awt.Graphics)), [getComponentPopupMenu](http://docs.google.com/javax/swing/JComponent.html#getComponentPopupMenu()), [getConditionForKeyStroke](http://docs.google.com/javax/swing/JComponent.html#getConditionForKeyStroke(javax.swing.KeyStroke)), [getDebugGraphicsOptions](http://docs.google.com/javax/swing/JComponent.html#getDebugGraphicsOptions()), [getDefaultLocale](http://docs.google.com/javax/swing/JComponent.html#getDefaultLocale()), [getFontMetrics](http://docs.google.com/javax/swing/JComponent.html#getFontMetrics(java.awt.Font)), [getGraphics](http://docs.google.com/javax/swing/JComponent.html#getGraphics()), [getHeight](http://docs.google.com/javax/swing/JComponent.html#getHeight()), [getInheritsPopupMenu](http://docs.google.com/javax/swing/JComponent.html#getInheritsPopupMenu()), [getInputMap](http://docs.google.com/javax/swing/JComponent.html#getInputMap()), [getInputMap](http://docs.google.com/javax/swing/JComponent.html#getInputMap(int)), [getInputVerifier](http://docs.google.com/javax/swing/JComponent.html#getInputVerifier()), [getInsets](http://docs.google.com/javax/swing/JComponent.html#getInsets()), [getInsets](http://docs.google.com/javax/swing/JComponent.html#getInsets(java.awt.Insets)), [getListeners](http://docs.google.com/javax/swing/JComponent.html#getListeners(java.lang.Class)), [getLocation](http://docs.google.com/javax/swing/JComponent.html#getLocation(java.awt.Point)), [getMaximumSize](http://docs.google.com/javax/swing/JComponent.html#getMaximumSize()), [getMinimumSize](http://docs.google.com/javax/swing/JComponent.html#getMinimumSize()), [getNextFocusableComponent](http://docs.google.com/javax/swing/JComponent.html#getNextFocusableComponent()), [getPopupLocation](http://docs.google.com/javax/swing/JComponent.html#getPopupLocation(java.awt.event.MouseEvent)), [getPreferredSize](http://docs.google.com/javax/swing/JComponent.html#getPreferredSize()), [getRegisteredKeyStrokes](http://docs.google.com/javax/swing/JComponent.html#getRegisteredKeyStrokes()), [getRootPane](http://docs.google.com/javax/swing/JComponent.html#getRootPane()), [getSize](http://docs.google.com/javax/swing/JComponent.html#getSize(java.awt.Dimension)), [getToolTipLocation](http://docs.google.com/javax/swing/JComponent.html#getToolTipLocation(java.awt.event.MouseEvent)), [getToolTipText](http://docs.google.com/javax/swing/JComponent.html#getToolTipText()), [getToolTipText](http://docs.google.com/javax/swing/JComponent.html#getToolTipText(java.awt.event.MouseEvent)), [getTopLevelAncestor](http://docs.google.com/javax/swing/JComponent.html#getTopLevelAncestor()), [getTransferHandler](http://docs.google.com/javax/swing/JComponent.html#getTransferHandler()), [getVerifyInputWhenFocusTarget](http://docs.google.com/javax/swing/JComponent.html#getVerifyInputWhenFocusTarget()), [getVetoableChangeListeners](http://docs.google.com/javax/swing/JComponent.html#getVetoableChangeListeners()), [getVisibleRect](http://docs.google.com/javax/swing/JComponent.html#getVisibleRect()), [getWidth](http://docs.google.com/javax/swing/JComponent.html#getWidth()), [getX](http://docs.google.com/javax/swing/JComponent.html#getX()), [getY](http://docs.google.com/javax/swing/JComponent.html#getY()), [grabFocus](http://docs.google.com/javax/swing/JComponent.html#grabFocus()), [isDoubleBuffered](http://docs.google.com/javax/swing/JComponent.html#isDoubleBuffered()), [isLightweightComponent](http://docs.google.com/javax/swing/JComponent.html#isLightweightComponent(java.awt.Component)), [isManagingFocus](http://docs.google.com/javax/swing/JComponent.html#isManagingFocus()), [isOptimizedDrawingEnabled](http://docs.google.com/javax/swing/JComponent.html#isOptimizedDrawingEnabled()), [isPaintingForPrint](http://docs.google.com/javax/swing/JComponent.html#isPaintingForPrint()), [isPaintingTile](http://docs.google.com/javax/swing/JComponent.html#isPaintingTile()), [isRequestFocusEnabled](http://docs.google.com/javax/swing/JComponent.html#isRequestFocusEnabled()), [isValidateRoot](http://docs.google.com/javax/swing/JComponent.html#isValidateRoot()), [paint](http://docs.google.com/javax/swing/JComponent.html#paint(java.awt.Graphics)), [paintBorder](http://docs.google.com/javax/swing/JComponent.html#paintBorder(java.awt.Graphics)), [paintChildren](http://docs.google.com/javax/swing/JComponent.html#paintChildren(java.awt.Graphics)), [paintComponent](http://docs.google.com/javax/swing/JComponent.html#paintComponent(java.awt.Graphics)), [paintImmediately](http://docs.google.com/javax/swing/JComponent.html#paintImmediately(int,%20int,%20int,%20int)), [paintImmediately](http://docs.google.com/javax/swing/JComponent.html#paintImmediately(java.awt.Rectangle)), [print](http://docs.google.com/javax/swing/JComponent.html#print(java.awt.Graphics)), [printAll](http://docs.google.com/javax/swing/JComponent.html#printAll(java.awt.Graphics)), [printBorder](http://docs.google.com/javax/swing/JComponent.html#printBorder(java.awt.Graphics)), [printChildren](http://docs.google.com/javax/swing/JComponent.html#printChildren(java.awt.Graphics)), [printComponent](http://docs.google.com/javax/swing/JComponent.html#printComponent(java.awt.Graphics)), [processComponentKeyEvent](http://docs.google.com/javax/swing/JComponent.html#processComponentKeyEvent(java.awt.event.KeyEvent)), [processKeyBinding](http://docs.google.com/javax/swing/JComponent.html#processKeyBinding(javax.swing.KeyStroke,%20java.awt.event.KeyEvent,%20int,%20boolean)), [processKeyEvent](http://docs.google.com/javax/swing/JComponent.html#processKeyEvent(java.awt.event.KeyEvent)), [processMouseEvent](http://docs.google.com/javax/swing/JComponent.html#processMouseEvent(java.awt.event.MouseEvent)), [processMouseMotionEvent](http://docs.google.com/javax/swing/JComponent.html#processMouseMotionEvent(java.awt.event.MouseEvent)), [putClientProperty](http://docs.google.com/javax/swing/JComponent.html#putClientProperty(java.lang.Object,%20java.lang.Object)), [registerKeyboardAction](http://docs.google.com/javax/swing/JComponent.html#registerKeyboardAction(java.awt.event.ActionListener,%20javax.swing.KeyStroke,%20int)), [registerKeyboardAction](http://docs.google.com/javax/swing/JComponent.html#registerKeyboardAction(java.awt.event.ActionListener,%20java.lang.String,%20javax.swing.KeyStroke,%20int)), [removeAncestorListener](http://docs.google.com/javax/swing/JComponent.html#removeAncestorListener(javax.swing.event.AncestorListener)), [removeNotify](http://docs.google.com/javax/swing/JComponent.html#removeNotify()), [removeVetoableChangeListener](http://docs.google.com/javax/swing/JComponent.html#removeVetoableChangeListener(java.beans.VetoableChangeListener)), [requestDefaultFocus](http://docs.google.com/javax/swing/JComponent.html#requestDefaultFocus()), [requestFocus](http://docs.google.com/javax/swing/JComponent.html#requestFocus()), [requestFocus](http://docs.google.com/javax/swing/JComponent.html#requestFocus(boolean)), [requestFocusInWindow](http://docs.google.com/javax/swing/JComponent.html#requestFocusInWindow()), [requestFocusInWindow](http://docs.google.com/javax/swing/JComponent.html#requestFocusInWindow(boolean)), [resetKeyboardActions](http://docs.google.com/javax/swing/JComponent.html#resetKeyboardActions()), [reshape](http://docs.google.com/javax/swing/JComponent.html#reshape(int,%20int,%20int,%20int)), [scrollRectToVisible](http://docs.google.com/javax/swing/JComponent.html#scrollRectToVisible(java.awt.Rectangle)), [setActionMap](http://docs.google.com/javax/swing/JComponent.html#setActionMap(javax.swing.ActionMap)), [setAlignmentX](http://docs.google.com/javax/swing/JComponent.html#setAlignmentX(float)), [setAlignmentY](http://docs.google.com/javax/swing/JComponent.html#setAlignmentY(float)), [setAutoscrolls](http://docs.google.com/javax/swing/JComponent.html#setAutoscrolls(boolean)), [setBackground](http://docs.google.com/javax/swing/JComponent.html#setBackground(java.awt.Color)), [setBorder](http://docs.google.com/javax/swing/JComponent.html#setBorder(javax.swing.border.Border)), [setComponentPopupMenu](http://docs.google.com/javax/swing/JComponent.html#setComponentPopupMenu(javax.swing.JPopupMenu)), [setDebugGraphicsOptions](http://docs.google.com/javax/swing/JComponent.html#setDebugGraphicsOptions(int)), [setDefaultLocale](http://docs.google.com/javax/swing/JComponent.html#setDefaultLocale(java.util.Locale)), [setDoubleBuffered](http://docs.google.com/javax/swing/JComponent.html#setDoubleBuffered(boolean)), [setEnabled](http://docs.google.com/javax/swing/JComponent.html#setEnabled(boolean)), [setFocusTraversalKeys](http://docs.google.com/javax/swing/JComponent.html#setFocusTraversalKeys(int,%20java.util.Set)), [setFont](http://docs.google.com/javax/swing/JComponent.html#setFont(java.awt.Font)), [setForeground](http://docs.google.com/javax/swing/JComponent.html#setForeground(java.awt.Color)), [setInheritsPopupMenu](http://docs.google.com/javax/swing/JComponent.html#setInheritsPopupMenu(boolean)), [setInputMap](http://docs.google.com/javax/swing/JComponent.html#setInputMap(int,%20javax.swing.InputMap)), [setInputVerifier](http://docs.google.com/javax/swing/JComponent.html#setInputVerifier(javax.swing.InputVerifier)), [setMaximumSize](http://docs.google.com/javax/swing/JComponent.html#setMaximumSize(java.awt.Dimension)), [setMinimumSize](http://docs.google.com/javax/swing/JComponent.html#setMinimumSize(java.awt.Dimension)), [setNextFocusableComponent](http://docs.google.com/javax/swing/JComponent.html#setNextFocusableComponent(java.awt.Component)), [setOpaque](http://docs.google.com/javax/swing/JComponent.html#setOpaque(boolean)), [setPreferredSize](http://docs.google.com/javax/swing/JComponent.html#setPreferredSize(java.awt.Dimension)), [setRequestFocusEnabled](http://docs.google.com/javax/swing/JComponent.html#setRequestFocusEnabled(boolean)), [setToolTipText](http://docs.google.com/javax/swing/JComponent.html#setToolTipText(java.lang.String)), [setTransferHandler](http://docs.google.com/javax/swing/JComponent.html#setTransferHandler(javax.swing.TransferHandler)), [setUI](http://docs.google.com/javax/swing/JComponent.html#setUI(javax.swing.plaf.ComponentUI)), [setVerifyInputWhenFocusTarget](http://docs.google.com/javax/swing/JComponent.html#setVerifyInputWhenFocusTarget(boolean)), [setVisible](http://docs.google.com/javax/swing/JComponent.html#setVisible(boolean)), [unregisterKeyboardAction](http://docs.google.com/javax/swing/JComponent.html#unregisterKeyboardAction(javax.swing.KeyStroke)), [update](http://docs.google.com/javax/swing/JComponent.html#update(java.awt.Graphics)) |

| **Methods inherited from class java.awt.**[**Container**](http://docs.google.com/java/awt/Container.html) |
| --- |
| [add](http://docs.google.com/java/awt/Container.html#add(java.awt.Component)), [add](http://docs.google.com/java/awt/Container.html#add(java.awt.Component,%20int)), [add](http://docs.google.com/java/awt/Container.html#add(java.awt.Component,%20java.lang.Object)), [add](http://docs.google.com/java/awt/Container.html#add(java.awt.Component,%20java.lang.Object,%20int)), [add](http://docs.google.com/java/awt/Container.html#add(java.lang.String,%20java.awt.Component)), [addContainerListener](http://docs.google.com/java/awt/Container.html#addContainerListener(java.awt.event.ContainerListener)), [addImpl](http://docs.google.com/java/awt/Container.html#addImpl(java.awt.Component,%20java.lang.Object,%20int)), [addPropertyChangeListener](http://docs.google.com/java/awt/Container.html#addPropertyChangeListener(java.beans.PropertyChangeListener)), [addPropertyChangeListener](http://docs.google.com/java/awt/Container.html#addPropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [applyComponentOrientation](http://docs.google.com/java/awt/Container.html#applyComponentOrientation(java.awt.ComponentOrientation)), [areFocusTraversalKeysSet](http://docs.google.com/java/awt/Container.html#areFocusTraversalKeysSet(int)), [countComponents](http://docs.google.com/java/awt/Container.html#countComponents()), [deliverEvent](http://docs.google.com/java/awt/Container.html#deliverEvent(java.awt.Event)), [doLayout](http://docs.google.com/java/awt/Container.html#doLayout()), [findComponentAt](http://docs.google.com/java/awt/Container.html#findComponentAt(int,%20int)), [findComponentAt](http://docs.google.com/java/awt/Container.html#findComponentAt(java.awt.Point)), [getComponent](http://docs.google.com/java/awt/Container.html#getComponent(int)), [getComponentAt](http://docs.google.com/java/awt/Container.html#getComponentAt(int,%20int)), [getComponentAt](http://docs.google.com/java/awt/Container.html#getComponentAt(java.awt.Point)), [getComponentCount](http://docs.google.com/java/awt/Container.html#getComponentCount()), [getComponents](http://docs.google.com/java/awt/Container.html#getComponents()), [getComponentZOrder](http://docs.google.com/java/awt/Container.html#getComponentZOrder(java.awt.Component)), [getContainerListeners](http://docs.google.com/java/awt/Container.html#getContainerListeners()), [getFocusTraversalKeys](http://docs.google.com/java/awt/Container.html#getFocusTraversalKeys(int)), [getFocusTraversalPolicy](http://docs.google.com/java/awt/Container.html#getFocusTraversalPolicy()), [getLayout](http://docs.google.com/java/awt/Container.html#getLayout()), [getMousePosition](http://docs.google.com/java/awt/Container.html#getMousePosition(boolean)), [insets](http://docs.google.com/java/awt/Container.html#insets()), [isAncestorOf](http://docs.google.com/java/awt/Container.html#isAncestorOf(java.awt.Component)), [isFocusCycleRoot](http://docs.google.com/java/awt/Container.html#isFocusCycleRoot()), [isFocusCycleRoot](http://docs.google.com/java/awt/Container.html#isFocusCycleRoot(java.awt.Container)), [isFocusTraversalPolicyProvider](http://docs.google.com/java/awt/Container.html#isFocusTraversalPolicyProvider()), [isFocusTraversalPolicySet](http://docs.google.com/java/awt/Container.html#isFocusTraversalPolicySet()), [layout](http://docs.google.com/java/awt/Container.html#layout()), [list](http://docs.google.com/java/awt/Container.html#list(java.io.PrintStream,%20int)), [list](http://docs.google.com/java/awt/Container.html#list(java.io.PrintWriter,%20int)), [locate](http://docs.google.com/java/awt/Container.html#locate(int,%20int)), [minimumSize](http://docs.google.com/java/awt/Container.html#minimumSize()), [paintComponents](http://docs.google.com/java/awt/Container.html#paintComponents(java.awt.Graphics)), [preferredSize](http://docs.google.com/java/awt/Container.html#preferredSize()), [printComponents](http://docs.google.com/java/awt/Container.html#printComponents(java.awt.Graphics)), [processContainerEvent](http://docs.google.com/java/awt/Container.html#processContainerEvent(java.awt.event.ContainerEvent)), [processEvent](http://docs.google.com/java/awt/Container.html#processEvent(java.awt.AWTEvent)), [remove](http://docs.google.com/java/awt/Container.html#remove(java.awt.Component)), [remove](http://docs.google.com/java/awt/Container.html#remove(int)), [removeAll](http://docs.google.com/java/awt/Container.html#removeAll()), [removeContainerListener](http://docs.google.com/java/awt/Container.html#removeContainerListener(java.awt.event.ContainerListener)), [setComponentZOrder](http://docs.google.com/java/awt/Container.html#setComponentZOrder(java.awt.Component,%20int)), [setFocusCycleRoot](http://docs.google.com/java/awt/Container.html#setFocusCycleRoot(boolean)), [setFocusTraversalPolicy](http://docs.google.com/java/awt/Container.html#setFocusTraversalPolicy(java.awt.FocusTraversalPolicy)), [setFocusTraversalPolicyProvider](http://docs.google.com/java/awt/Container.html#setFocusTraversalPolicyProvider(boolean)), [setLayout](http://docs.google.com/java/awt/Container.html#setLayout(java.awt.LayoutManager)), [transferFocusBackward](http://docs.google.com/java/awt/Container.html#transferFocusBackward()), [transferFocusDownCycle](http://docs.google.com/java/awt/Container.html#transferFocusDownCycle()), [validateTree](http://docs.google.com/java/awt/Container.html#validateTree()) |

| **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)), [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(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)), [disableEvents](http://docs.google.com/java/awt/Component.html#disableEvents(long)), [dispatchEvent](http://docs.google.com/java/awt/Component.html#dispatchEvent(java.awt.AWTEvent)), [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)), [getBackground](http://docs.google.com/java/awt/Component.html#getBackground()), [getBounds](http://docs.google.com/java/awt/Component.html#getBounds()), [getColorModel](http://docs.google.com/java/awt/Component.html#getColorModel()), [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()), [getFocusTraversalKeysEnabled](http://docs.google.com/java/awt/Component.html#getFocusTraversalKeysEnabled()), [getFont](http://docs.google.com/java/awt/Component.html#getFont()), [getForeground](http://docs.google.com/java/awt/Component.html#getForeground()), [getGraphicsConfiguration](http://docs.google.com/java/awt/Component.html#getGraphicsConfiguration()), [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()), [getLocationOnScreen](http://docs.google.com/java/awt/Component.html#getLocationOnScreen()), [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()), [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()), [getToolkit](http://docs.google.com/java/awt/Component.html#getToolkit()), [getTreeLock](http://docs.google.com/java/awt/Component.html#getTreeLock()), [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()), [inside](http://docs.google.com/java/awt/Component.html#inside(int,%20int)), [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()), [isEnabled](http://docs.google.com/java/awt/Component.html#isEnabled()), [isFocusable](http://docs.google.com/java/awt/Component.html#isFocusable()), [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()), [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)), [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.PrintWriter)), [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)), [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()), [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)), [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)), [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)), [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)), [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(int,%20int,%20int,%20int)), [repaint](http://docs.google.com/java/awt/Component.html#repaint(long)), [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)), [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)), [setFocusable](http://docs.google.com/java/awt/Component.html#setFocusable(boolean)), [setFocusTraversalKeysEnabled](http://docs.google.com/java/awt/Component.html#setFocusTraversalKeysEnabled(boolean)), [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)), [setName](http://docs.google.com/java/awt/Component.html#setName(java.lang.String)), [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)), [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()), [transferFocusUpCycle](http://docs.google.com/java/awt/Component.html#transferFocusUpCycle()) |

| **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)) |

| **Field Detail** |
| --- |

### noFocusBorder

protected static [Border](http://docs.google.com/javax/swing/border/Border.html) **noFocusBorder**

An empty Border. This field might not be used. To change the Border used by this renderer override the getListCellRendererComponent method and set the border of the returned component directly.

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

### DefaultListCellRenderer

public **DefaultListCellRenderer**()

Constructs a default renderer object for an item in a list.

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

### getListCellRendererComponent

public [Component](http://docs.google.com/java/awt/Component.html) **getListCellRendererComponent**([JList](http://docs.google.com/javax/swing/JList.html) list,  
 [Object](http://docs.google.com/java/lang/Object.html) value,  
 int index,  
 boolean isSelected,  
 boolean cellHasFocus)

**Description copied from interface:** [**ListCellRenderer**](http://docs.google.com/javax/swing/ListCellRenderer.html#getListCellRendererComponent(javax.swing.JList,%20java.lang.Object,%20int,%20boolean,%20boolean)) Return a component that has been configured to display the specified value. That component's paint method is then called to "render" the cell. If it is necessary to compute the dimensions of a list because the list cells do not have a fixed size, this method is called to generate a component on which getPreferredSize can be invoked.

**Specified by:**[getListCellRendererComponent](http://docs.google.com/javax/swing/ListCellRenderer.html#getListCellRendererComponent(javax.swing.JList,%20java.lang.Object,%20int,%20boolean,%20boolean)) in interface [ListCellRenderer](http://docs.google.com/javax/swing/ListCellRenderer.html) **Parameters:**list - The JList we're painting.value - The value returned by list.getModel().getElementAt(index).index - The cells index.isSelected - True if the specified cell was selected.cellHasFocus - True if the specified cell has the focus. **Returns:**A component whose paint() method will render the specified value.**See Also:**[JList](http://docs.google.com/javax/swing/JList.html), [ListSelectionModel](http://docs.google.com/javax/swing/ListSelectionModel.html), [ListModel](http://docs.google.com/javax/swing/ListModel.html)

### isOpaque

public boolean **isOpaque**()

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[isOpaque](http://docs.google.com/javax/swing/JComponent.html#isOpaque()) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **Returns:**true if the background is completely opaque and differs from the JList's background; false otherwise**Since:** 1.5 **See Also:**[JComponent.setOpaque(boolean)](http://docs.google.com/javax/swing/JComponent.html#setOpaque(boolean))

### validate

public void **validate**()

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[validate](http://docs.google.com/java/awt/Container.html#validate()) in class [Container](http://docs.google.com/java/awt/Container.html) **See Also:**[Container.add(java.awt.Component)](http://docs.google.com/java/awt/Container.html#add(java.awt.Component)), [Component.invalidate()](http://docs.google.com/java/awt/Component.html#invalidate()), [JComponent.revalidate()](http://docs.google.com/javax/swing/JComponent.html#revalidate()), [Container.validateTree()](http://docs.google.com/java/awt/Container.html#validateTree())

### invalidate

public void **invalidate**()

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[invalidate](http://docs.google.com/java/awt/Container.html#invalidate()) in class [Container](http://docs.google.com/java/awt/Container.html) **Since:** 1.5 **See Also:**[Container.validate()](http://docs.google.com/java/awt/Container.html#validate()), [Container.layout()](http://docs.google.com/java/awt/Container.html#layout()), [LayoutManager](http://docs.google.com/java/awt/LayoutManager.html), [LayoutManager2.invalidateLayout(Container)](http://docs.google.com/java/awt/LayoutManager2.html#invalidateLayout(java.awt.Container))

### repaint

public void **repaint**()

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[repaint](http://docs.google.com/java/awt/Component.html#repaint()) in class [Component](http://docs.google.com/java/awt/Component.html) **Since:** 1.5 **See Also:**[Component.update(Graphics)](http://docs.google.com/java/awt/Component.html#update(java.awt.Graphics))

### revalidate

public void **revalidate**()

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[revalidate](http://docs.google.com/javax/swing/JComponent.html#revalidate()) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **See Also:**[Component.invalidate()](http://docs.google.com/java/awt/Component.html#invalidate()), [Container.validate()](http://docs.google.com/java/awt/Container.html#validate()), [JComponent.isValidateRoot()](http://docs.google.com/javax/swing/JComponent.html#isValidateRoot()), [RepaintManager.addInvalidComponent(javax.swing.JComponent)](http://docs.google.com/javax/swing/RepaintManager.html#addInvalidComponent(javax.swing.JComponent))

### repaint

public void **repaint**(long tm,  
 int x,  
 int y,  
 int width,  
 int height)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[repaint](http://docs.google.com/javax/swing/JComponent.html#repaint(long,%20int,%20int,%20int,%20int)) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **Parameters:**tm - this parameter is not usedx - the x value of the dirty regiony - the y value of the dirty regionwidth - the width of the dirty regionheight - the height of the dirty region**See Also:**[Component.isShowing()](http://docs.google.com/java/awt/Component.html#isShowing()), [RepaintManager.addDirtyRegion(javax.swing.JComponent, int, int, int, int)](http://docs.google.com/javax/swing/RepaintManager.html#addDirtyRegion(javax.swing.JComponent,%20int,%20int,%20int,%20int))

### repaint

public void **repaint**([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[repaint](http://docs.google.com/javax/swing/JComponent.html#repaint(java.awt.Rectangle)) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **Parameters:**r - a Rectangle containing the dirty region**See Also:**[Component.isShowing()](http://docs.google.com/java/awt/Component.html#isShowing()), [RepaintManager.addDirtyRegion(javax.swing.JComponent, int, int, int, int)](http://docs.google.com/javax/swing/RepaintManager.html#addDirtyRegion(javax.swing.JComponent,%20int,%20int,%20int,%20int))

### firePropertyChange

protected void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 [Object](http://docs.google.com/java/lang/Object.html) oldValue,  
 [Object](http://docs.google.com/java/lang/Object.html) newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**propertyName - the property whose value has changedoldValue - the property's previous valuenewValue - the property's new value

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 byte oldValue,  
 byte newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20byte,%20byte)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**propertyName - the programmatic name of the property that was changedoldValue - the old value of the property (as a byte)newValue - the new value of the property (as a byte)**See Also:**[Component.firePropertyChange(java.lang.String, java.lang.Object, java.lang.Object)](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 char oldValue,  
 char newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/javax/swing/JComponent.html#firePropertyChange(java.lang.String,%20char,%20char)) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **Parameters:**propertyName - the programmatic name of the property that was changedoldValue - the old value of the property (as a char)newValue - the new value of the property (as a char)**See Also:**[Component.firePropertyChange(java.lang.String, java.lang.Object, java.lang.Object)](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 short oldValue,  
 short newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20short,%20short)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**propertyName - the programmatic name of the property that was changedoldValue - the old value of the property (as a short)newValue - the old value of the property (as a short)**See Also:**[Component.firePropertyChange(java.lang.String, java.lang.Object, java.lang.Object)](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 int oldValue,  
 int newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/javax/swing/JComponent.html#firePropertyChange(java.lang.String,%20int,%20int)) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **Parameters:**propertyName - the property whose value has changedoldValue - the property's previous valuenewValue - the property's new value

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 long oldValue,  
 long newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20long,%20long)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**propertyName - the programmatic name of the property that was changedoldValue - the old value of the property (as a long)newValue - the new value of the property (as a long)**See Also:**[Component.firePropertyChange(java.lang.String, java.lang.Object, java.lang.Object)](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 float oldValue,  
 float newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20float,%20float)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**propertyName - the programmatic name of the property that was changedoldValue - the old value of the property (as a float)newValue - the new value of the property (as a float)**See Also:**[Component.firePropertyChange(java.lang.String, java.lang.Object, java.lang.Object)](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 double oldValue,  
 double newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20double,%20double)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**propertyName - the programmatic name of the property that was changedoldValue - the old value of the property (as a double)newValue - the new value of the property (as a double)**See Also:**[Component.firePropertyChange(java.lang.String, java.lang.Object, java.lang.Object)](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object))

### firePropertyChange

public void **firePropertyChange**([String](http://docs.google.com/java/lang/String.html) propertyName,  
 boolean oldValue,  
 boolean newValue)

Overridden for performance reasons. See the [Implementation Note](#3znysh7) for more information.

**Overrides:**[firePropertyChange](http://docs.google.com/javax/swing/JComponent.html#firePropertyChange(java.lang.String,%20boolean,%20boolean)) in class [JComponent](http://docs.google.com/javax/swing/JComponent.html) **Parameters:**propertyName - the property whose value has changedoldValue - the property's previous valuenewValue - the property's new value

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultListCellRenderer.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/javax/swing/DefaultFocusManager.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DefaultListCellRenderer.UIResource.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultListCellRenderer.html)    [**NO FRAMES**](http://docs.google.com/DefaultListCellRenderer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#2s8eyo1) | [CONSTR](#1ksv4uv) | [METHOD](#44sinio) | DETAIL: [FIELD](#2xcytpi) | [CONSTR](#3whwml4) | [METHOD](#qsh70q) |

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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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