| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/FileChooser.html)   [**NEXT CLASS**](http://docs.google.com/IntArrayWorker.html) | [**FRAMES**](http://docs.google.com/index.html?ImageDisplay.html)    [**NO FRAMES**](http://docs.google.com/ImageDisplay.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#2s8eyo1) | [CONSTR](#26in1rg) | [METHOD](#lnxbz9) | DETAIL: FIELD | [CONSTR](#3j2qqm3) | [METHOD](#2xcytpi) |

## Class ImageDisplay

[java.lang.Object](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html)  
 [java.awt.Component](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html)  
 [java.awt.Container](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html)  
 [javax.swing.JComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html)  
 [javax.swing.JPanel](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html)  
 **ImageDisplay**

**All Implemented Interfaces:** [ImageObserver](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html), [MenuContainer](http://java.sun.com/j2se/1.5/docs/api/java/awt/MenuContainer.html), [Serializable](http://java.sun.com/j2se/1.5/docs/api/java/io/Serializable.html), [Accessible](http://java.sun.com/j2se/1.5/docs/api/javax/accessibility/Accessible.html), [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html)

public class **ImageDisplay**extends [JPanel](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html)implements [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html)

Class to display an image and the current location with a + sign

**Author:** Barb Ericson ericson@cc.gatech.edu **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#ImageDisplay)

| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from class javax.swing.**[**JPanel**](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html) |
| --- |
| [JPanel.AccessibleJPanel](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.AccessibleJPanel.html) |

| **Nested classes/interfaces inherited from class javax.swing.**[**JComponent**](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html) |
| --- |
| [JComponent.AccessibleJComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.AccessibleJComponent.html) |

| **Nested classes/interfaces inherited from class java.awt.**[**Container**](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html) |
| --- |
| [Container.AccessibleAWTContainer](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.AccessibleAWTContainer.html) |

| **Nested classes/interfaces inherited from class java.awt.**[**Component**](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html) |
| --- |
| [Component.AccessibleAWTComponent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.AccessibleAWTComponent.html), [Component.BltBufferStrategy](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.BltBufferStrategy.html), [Component.FlipBufferStrategy](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.FlipBufferStrategy.html) |

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

| **Fields inherited from class javax.swing.**[**JComponent**](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html) |
| --- |
| [accessibleContext](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#accessibleContext), [listenerList](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#listenerList), [TOOL\_TIP\_TEXT\_KEY](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#TOOL_TIP_TEXT_KEY), [ui](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#ui), [UNDEFINED\_CONDITION](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#UNDEFINED_CONDITION), [WHEN\_ANCESTOR\_OF\_FOCUSED\_COMPONENT](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#WHEN_ANCESTOR_OF_FOCUSED_COMPONENT), [WHEN\_FOCUSED](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#WHEN_FOCUSED), [WHEN\_IN\_FOCUSED\_WINDOW](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#WHEN_IN_FOCUSED_WINDOW) |

| **Fields inherited from class java.awt.**[**Component**](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html) |
| --- |
| [BOTTOM\_ALIGNMENT](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#BOTTOM_ALIGNMENT), [CENTER\_ALIGNMENT](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#CENTER_ALIGNMENT), [LEFT\_ALIGNMENT](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#LEFT_ALIGNMENT), [RIGHT\_ALIGNMENT](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#RIGHT_ALIGNMENT), [TOP\_ALIGNMENT](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#TOP_ALIGNMENT) |

| **Fields inherited from interface java.awt.image.**[**ImageObserver**](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html) |
| --- |
| [ABORT](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#ABORT), [ALLBITS](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#ALLBITS), [ERROR](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#ERROR), [FRAMEBITS](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#FRAMEBITS), [HEIGHT](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#HEIGHT), [PROPERTIES](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#PROPERTIES), [SOMEBITS](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#SOMEBITS), [WIDTH](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/ImageObserver.html#WIDTH) |

| **Constructor Summary** | |
| --- | --- |
| [**ImageDisplay**](http://docs.google.com/ImageDisplay.html#ImageDisplay(java.awt.Image))([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) theImage)            Constructor that takes the image to display |
| [**ImageDisplay**](http://docs.google.com/ImageDisplay.html#ImageDisplay(java.awt.Image,%20int,%20int))([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) theImage, int x, int y)            Constructor that takes the image and current x and y |

| **Method Summary** | |
| --- | --- |
| int | [**getCurrentX**](http://docs.google.com/ImageDisplay.html#getCurrentX())()            Method to get the current x |
| int | [**getCurrentY**](http://docs.google.com/ImageDisplay.html#getCurrentY())()            Method to get the current y |
| [Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) | [**getImage**](http://docs.google.com/ImageDisplay.html#getImage())()            Method to get the image |
| [Dimension](http://java.sun.com/j2se/1.5/docs/api/java/awt/Dimension.html) | [**getPreferredScrollableViewportSize**](http://docs.google.com/ImageDisplay.html#getPreferredScrollableViewportSize())()            Method to return the preferred size |
| int | [**getScrollableBlockIncrement**](http://docs.google.com/ImageDisplay.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://java.sun.com/j2se/1.5/docs/api/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Method to return the block increment for scrolling |
| boolean | [**getScrollableTracksViewportHeight**](http://docs.google.com/ImageDisplay.html#getScrollableTracksViewportHeight())()            Method to check if the viewport height is the source height |
| boolean | [**getScrollableTracksViewportWidth**](http://docs.google.com/ImageDisplay.html#getScrollableTracksViewportWidth())()            Method to check if the viewport width is the source width |
| int | [**getScrollableUnitIncrement**](http://docs.google.com/ImageDisplay.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://java.sun.com/j2se/1.5/docs/api/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Method to return the unit increment for scrolling |
| void | [**paintComponent**](http://docs.google.com/ImageDisplay.html#paintComponent(java.awt.Graphics))([Graphics](http://java.sun.com/j2se/1.5/docs/api/java/awt/Graphics.html) g)            Method to handle displaying this object |
| void | [**setCurrentX**](http://docs.google.com/ImageDisplay.html#setCurrentX(int))(int x)            Method to set the current x |
| void | [**setCurrentY**](http://docs.google.com/ImageDisplay.html#setCurrentY(int))(int y)            Method to set the current y |
| void | [**setImage**](http://docs.google.com/ImageDisplay.html#setImage(java.awt.Image))([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) theImage)            Method to set the image |

| **Methods inherited from class javax.swing.**[**JPanel**](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html) |
| --- |
| [getAccessibleContext](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html#getAccessibleContext()), [getUI](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html#getUI()), [getUIClassID](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html#getUIClassID()), [paramString](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html#paramString()), [setUI](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html#setUI(javax.swing.plaf.PanelUI)), [updateUI](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JPanel.html#updateUI()) |

| **Methods inherited from class javax.swing.**[**JComponent**](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html) |
| --- |
| [addAncestorListener](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#addAncestorListener(javax.swing.event.AncestorListener)), [addNotify](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#addNotify()), [addVetoableChangeListener](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#addVetoableChangeListener(java.beans.VetoableChangeListener)), [computeVisibleRect](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#computeVisibleRect(java.awt.Rectangle)), [contains](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#contains(int,%20int)), [createToolTip](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#createToolTip()), [disable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#disable()), [enable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#enable()), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#firePropertyChange(java.lang.String,%20boolean,%20boolean)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#firePropertyChange(java.lang.String,%20char,%20char)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#firePropertyChange(java.lang.String,%20int,%20int)), [fireVetoableChange](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#fireVetoableChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [getActionForKeyStroke](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getActionForKeyStroke(javax.swing.KeyStroke)), [getActionMap](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getActionMap()), [getAlignmentX](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getAlignmentX()), [getAlignmentY](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getAlignmentY()), [getAncestorListeners](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getAncestorListeners()), [getAutoscrolls](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getAutoscrolls()), [getBorder](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getBorder()), [getBounds](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getBounds(java.awt.Rectangle)), [getClientProperty](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getClientProperty(java.lang.Object)), [getComponentGraphics](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getComponentGraphics(java.awt.Graphics)), [getComponentPopupMenu](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getComponentPopupMenu()), [getConditionForKeyStroke](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getConditionForKeyStroke(javax.swing.KeyStroke)), [getDebugGraphicsOptions](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getDebugGraphicsOptions()), [getDefaultLocale](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getDefaultLocale()), [getFontMetrics](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getFontMetrics(java.awt.Font)), [getGraphics](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getGraphics()), [getHeight](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getHeight()), [getInheritsPopupMenu](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getInheritsPopupMenu()), [getInputMap](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getInputMap()), [getInputMap](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getInputMap(int)), [getInputVerifier](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getInputVerifier()), [getInsets](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getInsets()), [getInsets](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getInsets(java.awt.Insets)), [getListeners](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getListeners(java.lang.Class)), [getLocation](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getLocation(java.awt.Point)), [getMaximumSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getMaximumSize()), [getMinimumSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getMinimumSize()), [getNextFocusableComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getNextFocusableComponent()), [getPopupLocation](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getPopupLocation(java.awt.event.MouseEvent)), [getPreferredSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getPreferredSize()), [getRegisteredKeyStrokes](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getRegisteredKeyStrokes()), [getRootPane](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getRootPane()), [getSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getSize(java.awt.Dimension)), [getToolTipLocation](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getToolTipLocation(java.awt.event.MouseEvent)), [getToolTipText](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getToolTipText()), [getToolTipText](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getToolTipText(java.awt.event.MouseEvent)), [getTopLevelAncestor](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getTopLevelAncestor()), [getTransferHandler](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getTransferHandler()), [getVerifyInputWhenFocusTarget](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getVerifyInputWhenFocusTarget()), [getVetoableChangeListeners](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getVetoableChangeListeners()), [getVisibleRect](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getVisibleRect()), [getWidth](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getWidth()), [getX](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getX()), [getY](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#getY()), [grabFocus](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#grabFocus()), [isDoubleBuffered](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isDoubleBuffered()), [isLightweightComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isLightweightComponent(java.awt.Component)), [isManagingFocus](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isManagingFocus()), [isOpaque](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isOpaque()), [isOptimizedDrawingEnabled](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isOptimizedDrawingEnabled()), [isPaintingTile](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isPaintingTile()), [isRequestFocusEnabled](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isRequestFocusEnabled()), [isValidateRoot](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#isValidateRoot()), [paint](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#paint(java.awt.Graphics)), [paintBorder](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#paintBorder(java.awt.Graphics)), [paintChildren](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#paintChildren(java.awt.Graphics)), [paintImmediately](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#paintImmediately(int,%20int,%20int,%20int)), [paintImmediately](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#paintImmediately(java.awt.Rectangle)), [print](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#print(java.awt.Graphics)), [printAll](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#printAll(java.awt.Graphics)), [printBorder](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#printBorder(java.awt.Graphics)), [printChildren](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#printChildren(java.awt.Graphics)), [printComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#printComponent(java.awt.Graphics)), [processComponentKeyEvent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#processComponentKeyEvent(java.awt.event.KeyEvent)), [processKeyBinding](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#processKeyBinding(javax.swing.KeyStroke,%20java.awt.event.KeyEvent,%20int,%20boolean)), [processKeyEvent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#processKeyEvent(java.awt.event.KeyEvent)), [processMouseEvent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#processMouseEvent(java.awt.event.MouseEvent)), [processMouseMotionEvent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#processMouseMotionEvent(java.awt.event.MouseEvent)), [putClientProperty](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#putClientProperty(java.lang.Object,%20java.lang.Object)), [registerKeyboardAction](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#registerKeyboardAction(java.awt.event.ActionListener,%20javax.swing.KeyStroke,%20int)), [registerKeyboardAction](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#registerKeyboardAction(java.awt.event.ActionListener,%20java.lang.String,%20javax.swing.KeyStroke,%20int)), [removeAncestorListener](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#removeAncestorListener(javax.swing.event.AncestorListener)), [removeNotify](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#removeNotify()), [removeVetoableChangeListener](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#removeVetoableChangeListener(java.beans.VetoableChangeListener)), [repaint](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#repaint(long,%20int,%20int,%20int,%20int)), [repaint](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#repaint(java.awt.Rectangle)), [requestDefaultFocus](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#requestDefaultFocus()), [requestFocus](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#requestFocus()), [requestFocus](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#requestFocus(boolean)), [requestFocusInWindow](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#requestFocusInWindow()), [requestFocusInWindow](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#requestFocusInWindow(boolean)), [resetKeyboardActions](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#resetKeyboardActions()), [reshape](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#reshape(int,%20int,%20int,%20int)), [revalidate](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#revalidate()), [scrollRectToVisible](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#scrollRectToVisible(java.awt.Rectangle)), [setActionMap](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setActionMap(javax.swing.ActionMap)), [setAlignmentX](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setAlignmentX(float)), [setAlignmentY](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setAlignmentY(float)), [setAutoscrolls](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setAutoscrolls(boolean)), [setBackground](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setBackground(java.awt.Color)), [setBorder](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setBorder(javax.swing.border.Border)), [setComponentPopupMenu](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setComponentPopupMenu(javax.swing.JPopupMenu)), [setDebugGraphicsOptions](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setDebugGraphicsOptions(int)), [setDefaultLocale](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setDefaultLocale(java.util.Locale)), [setDoubleBuffered](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setDoubleBuffered(boolean)), [setEnabled](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setEnabled(boolean)), [setFocusTraversalKeys](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setFocusTraversalKeys(int,%20java.util.Set)), [setFont](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setFont(java.awt.Font)), [setForeground](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setForeground(java.awt.Color)), [setInheritsPopupMenu](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setInheritsPopupMenu(boolean)), [setInputMap](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setInputMap(int,%20javax.swing.InputMap)), [setInputVerifier](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setInputVerifier(javax.swing.InputVerifier)), [setMaximumSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setMaximumSize(java.awt.Dimension)), [setMinimumSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setMinimumSize(java.awt.Dimension)), [setNextFocusableComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setNextFocusableComponent(java.awt.Component)), [setOpaque](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setOpaque(boolean)), [setPreferredSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setPreferredSize(java.awt.Dimension)), [setRequestFocusEnabled](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setRequestFocusEnabled(boolean)), [setToolTipText](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setToolTipText(java.lang.String)), [setTransferHandler](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setTransferHandler(javax.swing.TransferHandler)), [setUI](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setUI(javax.swing.plaf.ComponentUI)), [setVerifyInputWhenFocusTarget](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setVerifyInputWhenFocusTarget(boolean)), [setVisible](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#setVisible(boolean)), [unregisterKeyboardAction](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#unregisterKeyboardAction(javax.swing.KeyStroke)), [update](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#update(java.awt.Graphics)) |

| **Methods inherited from class java.awt.**[**Container**](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html) |
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| [add](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#add(java.awt.Component)), [add](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#add(java.awt.Component,%20int)), [add](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#add(java.awt.Component,%20java.lang.Object)), [add](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#add(java.awt.Component,%20java.lang.Object,%20int)), [add](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#add(java.lang.String,%20java.awt.Component)), [addContainerListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#addContainerListener(java.awt.event.ContainerListener)), [addImpl](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#addImpl(java.awt.Component,%20java.lang.Object,%20int)), [addPropertyChangeListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#addPropertyChangeListener(java.beans.PropertyChangeListener)), [addPropertyChangeListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#addPropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [applyComponentOrientation](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#applyComponentOrientation(java.awt.ComponentOrientation)), [areFocusTraversalKeysSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#areFocusTraversalKeysSet(int)), [countComponents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#countComponents()), [deliverEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#deliverEvent(java.awt.Event)), [doLayout](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#doLayout()), [findComponentAt](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#findComponentAt(int,%20int)), [findComponentAt](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#findComponentAt(java.awt.Point)), [getComponent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getComponent(int)), [getComponentAt](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getComponentAt(int,%20int)), [getComponentAt](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getComponentAt(java.awt.Point)), [getComponentCount](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getComponentCount()), [getComponents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getComponents()), [getComponentZOrder](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getComponentZOrder(java.awt.Component)), [getContainerListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getContainerListeners()), [getFocusTraversalKeys](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getFocusTraversalKeys(int)), [getFocusTraversalPolicy](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getFocusTraversalPolicy()), [getLayout](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getLayout()), [getMousePosition](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#getMousePosition(boolean)), [insets](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#insets()), [invalidate](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#invalidate()), [isAncestorOf](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#isAncestorOf(java.awt.Component)), [isFocusCycleRoot](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#isFocusCycleRoot()), [isFocusCycleRoot](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#isFocusCycleRoot(java.awt.Container)), [isFocusTraversalPolicyProvider](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#isFocusTraversalPolicyProvider()), [isFocusTraversalPolicySet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#isFocusTraversalPolicySet()), [layout](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#layout()), [list](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#list(java.io.PrintStream,%20int)), [list](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#list(java.io.PrintWriter,%20int)), [locate](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#locate(int,%20int)), [minimumSize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#minimumSize()), [paintComponents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#paintComponents(java.awt.Graphics)), [preferredSize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#preferredSize()), [printComponents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#printComponents(java.awt.Graphics)), [processContainerEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#processContainerEvent(java.awt.event.ContainerEvent)), [processEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#processEvent(java.awt.AWTEvent)), [remove](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#remove(java.awt.Component)), [remove](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#remove(int)), [removeAll](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#removeAll()), [removeContainerListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#removeContainerListener(java.awt.event.ContainerListener)), [setComponentZOrder](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#setComponentZOrder(java.awt.Component,%20int)), [setFocusCycleRoot](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#setFocusCycleRoot(boolean)), [setFocusTraversalPolicy](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#setFocusTraversalPolicy(java.awt.FocusTraversalPolicy)), [setFocusTraversalPolicyProvider](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#setFocusTraversalPolicyProvider(boolean)), [setLayout](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#setLayout(java.awt.LayoutManager)), [transferFocusBackward](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#transferFocusBackward()), [transferFocusDownCycle](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#transferFocusDownCycle()), [validate](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#validate()), [validateTree](http://java.sun.com/j2se/1.5/docs/api/java/awt/Container.html#validateTree()) |

| **Methods inherited from class java.awt.**[**Component**](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html) |
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| [action](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#action(java.awt.Event,%20java.lang.Object)), [add](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#add(java.awt.PopupMenu)), [addComponentListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addComponentListener(java.awt.event.ComponentListener)), [addFocusListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addFocusListener(java.awt.event.FocusListener)), [addHierarchyBoundsListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addHierarchyBoundsListener(java.awt.event.HierarchyBoundsListener)), [addHierarchyListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addHierarchyListener(java.awt.event.HierarchyListener)), [addInputMethodListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addInputMethodListener(java.awt.event.InputMethodListener)), [addKeyListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addKeyListener(java.awt.event.KeyListener)), [addMouseListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addMouseListener(java.awt.event.MouseListener)), [addMouseMotionListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addMouseMotionListener(java.awt.event.MouseMotionListener)), [addMouseWheelListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#addMouseWheelListener(java.awt.event.MouseWheelListener)), [bounds](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#bounds()), [checkImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#checkImage(java.awt.Image,%20java.awt.image.ImageObserver)), [checkImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#checkImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver)), [coalesceEvents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#coalesceEvents(java.awt.AWTEvent,%20java.awt.AWTEvent)), [contains](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#contains(java.awt.Point)), [createImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#createImage(java.awt.image.ImageProducer)), [createImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#createImage(int,%20int)), [createVolatileImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#createVolatileImage(int,%20int)), [createVolatileImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#createVolatileImage(int,%20int,%20java.awt.ImageCapabilities)), [disableEvents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#disableEvents(long)), [dispatchEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#dispatchEvent(java.awt.AWTEvent)), [enable](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#enable(boolean)), [enableEvents](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#enableEvents(long)), [enableInputMethods](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#enableInputMethods(boolean)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#firePropertyChange(java.lang.String,%20byte,%20byte)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#firePropertyChange(java.lang.String,%20double,%20double)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#firePropertyChange(java.lang.String,%20float,%20float)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#firePropertyChange(java.lang.String,%20long,%20long)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [firePropertyChange](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#firePropertyChange(java.lang.String,%20short,%20short)), [getBackground](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getBackground()), [getBounds](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getBounds()), [getColorModel](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getColorModel()), [getComponentListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getComponentListeners()), [getComponentOrientation](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getComponentOrientation()), [getCursor](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getCursor()), [getDropTarget](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getDropTarget()), [getFocusCycleRootAncestor](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getFocusCycleRootAncestor()), [getFocusListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getFocusListeners()), [getFocusTraversalKeysEnabled](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getFocusTraversalKeysEnabled()), [getFont](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getFont()), [getForeground](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getForeground()), [getGraphicsConfiguration](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getGraphicsConfiguration()), [getHierarchyBoundsListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getHierarchyBoundsListeners()), [getHierarchyListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getHierarchyListeners()), [getIgnoreRepaint](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getIgnoreRepaint()), [getInputContext](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getInputContext()), [getInputMethodListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getInputMethodListeners()), [getInputMethodRequests](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getInputMethodRequests()), [getKeyListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getKeyListeners()), [getLocale](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getLocale()), [getLocation](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getLocation()), [getLocationOnScreen](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getLocationOnScreen()), [getMouseListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getMouseListeners()), [getMouseMotionListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getMouseMotionListeners()), [getMousePosition](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getMousePosition()), [getMouseWheelListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getMouseWheelListeners()), [getName](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getName()), [getParent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getParent()), [getPeer](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getPeer()), [getPropertyChangeListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getPropertyChangeListeners()), [getPropertyChangeListeners](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getPropertyChangeListeners(java.lang.String)), [getSize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getSize()), [getToolkit](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getToolkit()), [getTreeLock](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#getTreeLock()), [gotFocus](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#gotFocus(java.awt.Event,%20java.lang.Object)), [handleEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#handleEvent(java.awt.Event)), [hasFocus](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#hasFocus()), [hide](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#hide()), [imageUpdate](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#imageUpdate(java.awt.Image,%20int,%20int,%20int,%20int,%20int)), [inside](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#inside(int,%20int)), [isBackgroundSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isBackgroundSet()), [isCursorSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isCursorSet()), [isDisplayable](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isDisplayable()), [isEnabled](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isEnabled()), [isFocusable](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isFocusable()), [isFocusOwner](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isFocusOwner()), [isFocusTraversable](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isFocusTraversable()), [isFontSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isFontSet()), [isForegroundSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isForegroundSet()), [isLightweight](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isLightweight()), [isMaximumSizeSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isMaximumSizeSet()), [isMinimumSizeSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isMinimumSizeSet()), [isPreferredSizeSet](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isPreferredSizeSet()), [isShowing](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isShowing()), [isValid](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isValid()), [isVisible](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#isVisible()), [keyDown](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#keyDown(java.awt.Event,%20int)), [keyUp](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#keyUp(java.awt.Event,%20int)), [list](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#list()), [list](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#list(java.io.PrintStream)), [list](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#list(java.io.PrintWriter)), [location](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#location()), [lostFocus](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#lostFocus(java.awt.Event,%20java.lang.Object)), [mouseDown](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#mouseDown(java.awt.Event,%20int,%20int)), [mouseDrag](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#mouseDrag(java.awt.Event,%20int,%20int)), [mouseEnter](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#mouseEnter(java.awt.Event,%20int,%20int)), [mouseExit](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#mouseExit(java.awt.Event,%20int,%20int)), [mouseMove](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#mouseMove(java.awt.Event,%20int,%20int)), [mouseUp](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#mouseUp(java.awt.Event,%20int,%20int)), [move](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#move(int,%20int)), [nextFocus](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#nextFocus()), [paintAll](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#paintAll(java.awt.Graphics)), [postEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#postEvent(java.awt.Event)), [prepareImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#prepareImage(java.awt.Image,%20java.awt.image.ImageObserver)), [prepareImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#prepareImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver)), [processComponentEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#processComponentEvent(java.awt.event.ComponentEvent)), [processFocusEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#processFocusEvent(java.awt.event.FocusEvent)), [processHierarchyBoundsEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#processHierarchyBoundsEvent(java.awt.event.HierarchyEvent)), [processHierarchyEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#processHierarchyEvent(java.awt.event.HierarchyEvent)), [processInputMethodEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#processInputMethodEvent(java.awt.event.InputMethodEvent)), [processMouseWheelEvent](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#processMouseWheelEvent(java.awt.event.MouseWheelEvent)), [remove](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#remove(java.awt.MenuComponent)), [removeComponentListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeComponentListener(java.awt.event.ComponentListener)), [removeFocusListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeFocusListener(java.awt.event.FocusListener)), [removeHierarchyBoundsListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeHierarchyBoundsListener(java.awt.event.HierarchyBoundsListener)), [removeHierarchyListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeHierarchyListener(java.awt.event.HierarchyListener)), [removeInputMethodListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeInputMethodListener(java.awt.event.InputMethodListener)), [removeKeyListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeKeyListener(java.awt.event.KeyListener)), [removeMouseListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeMouseListener(java.awt.event.MouseListener)), [removeMouseMotionListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeMouseMotionListener(java.awt.event.MouseMotionListener)), [removeMouseWheelListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removeMouseWheelListener(java.awt.event.MouseWheelListener)), [removePropertyChangeListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removePropertyChangeListener(java.beans.PropertyChangeListener)), [removePropertyChangeListener](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#removePropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [repaint](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#repaint()), [repaint](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#repaint(int,%20int,%20int,%20int)), [repaint](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#repaint(long)), [resize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#resize(java.awt.Dimension)), [resize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#resize(int,%20int)), [setBounds](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setBounds(int,%20int,%20int,%20int)), [setBounds](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setBounds(java.awt.Rectangle)), [setComponentOrientation](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setComponentOrientation(java.awt.ComponentOrientation)), [setCursor](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setCursor(java.awt.Cursor)), [setDropTarget](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setDropTarget(java.awt.dnd.DropTarget)), [setFocusable](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setFocusable(boolean)), [setFocusTraversalKeysEnabled](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setFocusTraversalKeysEnabled(boolean)), [setIgnoreRepaint](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setIgnoreRepaint(boolean)), [setLocale](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setLocale(java.util.Locale)), [setLocation](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setLocation(int,%20int)), [setLocation](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setLocation(java.awt.Point)), [setName](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setName(java.lang.String)), [setSize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setSize(java.awt.Dimension)), [setSize](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#setSize(int,%20int)), [show](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#show()), [show](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#show(boolean)), [size](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#size()), [toString](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#toString()), [transferFocus](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#transferFocus()), [transferFocusUpCycle](http://java.sun.com/j2se/1.5/docs/api/java/awt/Component.html#transferFocusUpCycle()) |

| **Methods inherited from class java.lang.**[**Object**](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html) |
| --- |
| [clone](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#clone()), [equals](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#finalize()), [getClass](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#getClass()), [hashCode](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#hashCode()), [notify](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#notify()), [notifyAll](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#notifyAll()), [wait](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#wait()), [wait](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#wait(long)), [wait](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#wait(long,%20int)) |

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

### ImageDisplay

public **ImageDisplay**([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) theImage)

Constructor that takes the image to display

**Parameters:**theImage - the image to display

### ImageDisplay

public **ImageDisplay**([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) theImage,  
 int x,  
 int y)

Constructor that takes the image and current x and y

**Parameters:**theImage - the image to displayx - the current x value to usey - the current y value to use

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

### getCurrentX

public int **getCurrentX**()

Method to get the current x

**Returns:**the current x value

### getCurrentY

public int **getCurrentY**()

Method to get the current y

**Returns:**the current y value

### getImage

public [Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) **getImage**()

Method to get the image

**Returns:**the image

### getPreferredScrollableViewportSize

public [Dimension](http://java.sun.com/j2se/1.5/docs/api/java/awt/Dimension.html) **getPreferredScrollableViewportSize**()

Method to return the preferred size

**Specified by:**[getPreferredScrollableViewportSize](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html#getPreferredScrollableViewportSize()) in interface [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html) **Returns:**the preferred size of this component

### getScrollableBlockIncrement

public int **getScrollableBlockIncrement**([Rectangle](http://java.sun.com/j2se/1.5/docs/api/java/awt/Rectangle.html) visibleRect,  
 int orientation,  
 int direction)

Method to return the block increment for scrolling

**Specified by:**[getScrollableBlockIncrement](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int)) in interface [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html) **Parameters:**visibleRect - the visible rectangleorientation - vertical or horizontaldirection - neg is up or left and pos is right or down **Returns:**the block increment for clicking in scroll area

### getScrollableTracksViewportHeight

public boolean **getScrollableTracksViewportHeight**()

Method to check if the viewport height is the source height

**Specified by:**[getScrollableTracksViewportHeight](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html#getScrollableTracksViewportHeight()) in interface [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html) **Returns:**true if viewport and source have same height

### getScrollableTracksViewportWidth

public boolean **getScrollableTracksViewportWidth**()

Method to check if the viewport width is the source width

**Specified by:**[getScrollableTracksViewportWidth](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html#getScrollableTracksViewportWidth()) in interface [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html) **Returns:**true if viewport and source have same width

### getScrollableUnitIncrement

public int **getScrollableUnitIncrement**([Rectangle](http://java.sun.com/j2se/1.5/docs/api/java/awt/Rectangle.html) visibleRect,  
 int orientation,  
 int direction)

Method to return the unit increment for scrolling

**Specified by:**[getScrollableUnitIncrement](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int)) in interface [Scrollable](http://java.sun.com/j2se/1.5/docs/api/javax/swing/Scrollable.html) **Parameters:**visibleRect - the visible rectangleorientation - vertical or horizontaldirection - neg is up or left and pos is right or down **Returns:**the unit increment for arrow clicks

### paintComponent

public void **paintComponent**([Graphics](http://java.sun.com/j2se/1.5/docs/api/java/awt/Graphics.html) g)

Method to handle displaying this object

**Overrides:**[paintComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html#paintComponent(java.awt.Graphics)) in class [JComponent](http://java.sun.com/j2se/1.5/docs/api/javax/swing/JComponent.html) **Parameters:**g - the graphics object for drawing with

### setCurrentX

public void **setCurrentX**(int x)

Method to set the current x

**Parameters:**x - the x value to use

### setCurrentY

public void **setCurrentY**(int y)

Method to set the current y

**Parameters:**y - the y value to use

### setImage

public void **setImage**([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) theImage)

Method to set the image

**Parameters:**theImage - the new image to use

| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/FileChooser.html)   [**NEXT CLASS**](http://docs.google.com/IntArrayWorker.html) | [**FRAMES**](http://docs.google.com/index.html?ImageDisplay.html)    [**NO FRAMES**](http://docs.google.com/ImageDisplay.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#2s8eyo1) | [CONSTR](#26in1rg) | [METHOD](#lnxbz9) | DETAIL: FIELD | [CONSTR](#3j2qqm3) | [METHOD](#2xcytpi) |