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Java™ 2 Platform
Std. Ed. v1.3.1

java.awt

Class Component

[java.lang.Object](#)

|

+-- java.awt.Component

All Implemented Interfaces:

[ImageObserver](#), [MenuContainer](#), [Serializable](#)

Direct Known Subclasses:

[Box.Filler](#), [Button](#), [Canvas](#), [Checkbox](#), [Choice](#), [Container](#), [Label](#), [List](#), [Scrollbar](#), [TextComponent](#)

public abstract class **Component**

extends [Object](#)

implements [ImageObserver](#), [MenuContainer](#), [Serializable](#)

A *component* is an object having a graphical representation that can be displayed on the screen and that can interact with the user. Examples of components are the buttons, checkboxes, and scrollbars of a typical graphical user interface.

The Component class is the abstract superclass of the nonmenu-related Abstract Window Toolkit components. Class Component can also be extended directly to create a lightweight component. A lightweight component is a component that is not associated with a native opaque window.

See Also:

[Serialized Form](#)

Inner Class Summary

protected class	Component.AccessibleAWTComponent Inner class of Component used to provide default support for accessibility.
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Field Summary

static float	BOTTOM_ALIGNMENT Ease-of-use constant for <code>getAlignmentY</code> .
static float	CENTER_ALIGNMENT Ease-of-use constant for <code>getAlignmentY</code> and <code>getAlignmentX</code> .
static float	LEFT_ALIGNMENT Ease-of-use constant for <code>getAlignmentX</code> .
static float	RIGHT_ALIGNMENT Ease-of-use constant for <code>getAlignmentX</code> .
static float	TOP_ALIGNMENT Ease-of-use constant for <code>getAlignmentY()</code> .

Sony Corp., et al., v. Creative
Technology Ltd., IPR2017-00595

EXHIBIT
Creative-2006

Fields inherited from interface java.awt.image.[ImageObserver](#)[ABORT](#), [ALLBITS](#), [ERROR](#), [FRAMEBITS](#), [HEIGHT](#), [PROPERTIES](#), [SOMEBITS](#), [WIDTH](#)**Constructor Summary**

protected	Component () Constructs a new component.
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Method Summary

boolean	action (Event evt, Object what) Deprecated. <i>As of JDK version 1.1, should register this component as ActionListener on component which fires action events.</i>
void	add (PopupMenu popup) Adds the specified popup menu to the component.
void	addComponentListener (ComponentListener l) Adds the specified component listener to receive component events from this component.
void	addFocusListener (FocusListener l) Adds the specified focus listener to receive focus events from this component when this component gains input focus.
void	addHierarchyBoundsListener (HierarchyBoundsListener l) Adds the specified hierarchy bounds listener to receive hierarchy bounds events from this component when the hierarchy to which this container belongs changes.
void	addHierarchyListener (HierarchyListener l) Adds the specified hierarchy listener to receive hierarchy changed events from this component when the hierarchy to which this container belongs changes.
void	addInputMethodListener (InputMethodListener l) Adds the specified input method listener to receive input method events from this component.
void	addKeyListener (KeyListener l) Adds the specified key listener to receive key events from this component.
void	addMouseListener (MouseListener l) Adds the specified mouse listener to receive mouse events from this component.
void	addMouseMotionListener (MouseMotionListener l) Adds the specified mouse motion listener to receive mouse motion events from this component.
void	addNotify () Makes this Component displayable by connecting it to a native screen resource.
void	addPropertyChangeListener (PropertyChangeListener listener) Add a PropertyChangeListener to the listener list.
void	addPropertyChangeListener (String propertyName, PropertyChangeListener listener) Add a PropertyChangeListener for a specific property.
	Rectangle

	bounds() Deprecated. <i>As of JDK version 1.1, replaced by getBounds().</i>
int	checkImage (Image image, ImageObserver observer) Returns the status of the construction of a screen representation of the specified image.
int	checkImage (Image image, int width, int height, ImageObserver observer) Returns the status of the construction of a screen representation of the specified image.
protected AWTEvent	coalesceEvents (AWTEvent existingEvent, AWTEvent newEvent) Potentially coalesce an event being posted with an existing event.
boolean	contains (int x, int y) Checks whether this component "contains" the specified point, where x and y are defined to be relative to the coordinate system of this component.
boolean	contains (Point p) Checks whether this component "contains" the specified point, where the point's x and y coordinates are defined to be relative to the coordinate system of this component.
Image	createImage (ImageProducer producer) Creates an image from the specified image producer.
Image	createImage (int width, int height) Creates an off-screen drawable image to be used for double buffering.
void	deliverEvent (Event e) Deprecated. <i>As of JDK version 1.1, replaced by dispatchEvent(AWTEvent e).</i>
void	disable () Deprecated. <i>As of JDK version 1.1, replaced by setEnabled(boolean).</i>
protected void	disableEvents (long eventsToDisable) Disables the events defined by the specified event mask parameter from being delivered to this component.
void	dispatchEvent (AWTEvent e) Dispatches an event to this component or one of its sub components.
void	doLayout () Prompts the layout manager to lay out this component.
void	enable () Deprecated. <i>As of JDK version 1.1, replaced by setEnabled(boolean).</i>
void	enable (boolean b) Deprecated. <i>As of JDK version 1.1, replaced by setEnabled(boolean).</i>
protected void	enableEvents (long eventsToEnable) Enables the events defined by the specified event mask parameter to be delivered to this component.
void	enableInputMethods (boolean enable) Enables or disables input method support for this component.
protected void	firePropertyChange (String propertyName, Object oldValue, Object newValue) Support for reporting bound property changes.
AccessibleContext	getAccessibleContext () Get the AccessibleContext associated with this Component
float	

	getAlignmentX() Returns the alignment along the x axis.
float	getAlignmentY() Returns the alignment along the y axis.
Color	getBackground() Gets the background color of this component.
Rectangle	getBounds() Gets the bounds of this component in the form of a Rectangle object.
Rectangle	getBounds(Rectangle rv) Store the bounds of this component into "return value" rv and return rv .
ColorModel	getColorModel() Gets the instance of ColorModel used to display the component on the output device.
Component	getComponentAt(int x, int y) Determines if this component or one of its immediate subcomponents contains the (x, y) location, and if so, returns the containing component.
Component	getComponentAt(Point p) Returns the component or subcomponent that contains the specified point.
ComponentOrientation	getComponentOrientation() Retrieve the language-sensitive orientation that is to be used to order the elements or text within this component.
Cursor	getCursor() Gets the cursor set in the component.
DropTarget	getDropTarget() Get the DropTarget associated with this Component
Font	getFont() Gets the font of this component.
FontMetrics	getFontMetrics(Font font) Gets the font metrics for the specified font.
Color	getForeground() Gets the foreground color of this component.
Graphics	getGraphics() Creates a graphics context for this component.
GraphicsConfiguration	getGraphicsConfiguration() Get the GraphicsConfiguration associated with this Component .
int	getHeight() Return the current height of this component.
InputContext	getInputContext() Gets the input context used by this component for handling the communication with input methods when text is entered in this component.
InputMethodRequests	getInputMethodRequests() Gets the input method request handler which supports requests from input methods for this component.
EventListener[]	getListeners(Class listenerType) Return an array of all the listeners that were added to the Component with

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	addXXXListener(), where XXX is the name of the listenerType argument.
Locale	getLocale() Gets the locale of this component.
Point	getLocation() Gets the location of this component in the form of a point specifying the component's top-left corner.
Point	getLocation(Point rv) Store the x,y origin of this component into "return value" rv and return rv .
Point	getLocationOnScreen() Gets the location of this component in the form of a point specifying the component's top-left corner in the screen's coordinate space.
Dimension	getMaximumSize() Gets the maximum size of this component.
Dimension	getMinimumSize() Gets the minimum size of this component.
String	getName() Gets the name of the component.
Container	getParent() Gets the parent of this component.
java.awt.peer.ComponentPeer	getPeer() Deprecated. As of JDK version 1.1, programs should not directly manipulate peers. replaced by <code>boolean isDisplayable()</code> .
Dimension	getPreferredSize() Gets the preferred size of this component.
Dimension	getSize() Returns the size of this component in the form of a Dimension object.
Dimension	getSize(Dimension rv) Store the width/height of this component into "return value" rv and return rv .
Toolkit	getToolkit() Gets the toolkit of this component.
Object	getTreeLock() Gets the locking object for AWT component-tree and layout Gets this component's locking object (the object that owns the thread synchronization monitor) for AWT component-tree and layout operations.
int	getWidth() Return the current width of this component.
int	getX() Return the current x coordinate of the components origin.
int	getY() Return the current y coordinate of the components origin.
boolean	gotFocus(Event evt, Object what) Deprecated. As of JDK version 1.1, replaced by <code>processFocusEvent(FocusEvent)</code> .
boolean	handleEvent(Event evt) Deprecated. As of JDK version 1.1 replaced by <code>processEvent(AWTEvent)</code> .

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