| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JApplet.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/InternalFrameFocusTraversalPolicy.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/JApplet.AccessibleJApplet.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/JApplet.html)    [**NO FRAMES**](http://docs.google.com/JApplet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#4d34og8) | [CONSTR](#3rdcrjn) | [METHOD](#26in1rg) | DETAIL: [FIELD](#z337ya) | [CONSTR](#2xcytpi) | [METHOD](#3whwml4) |

## **javax.swing**

Class JApplet

[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)  
 [java.awt.Panel](http://docs.google.com/java/awt/Panel.html)  
 [java.applet.Applet](http://docs.google.com/java/applet/Applet.html)  
 **javax.swing.JApplet**

**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), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

public class **JApplet**extends [Applet](http://docs.google.com/java/applet/Applet.html)implements [Accessible](http://docs.google.com/javax/accessibility/Accessible.html), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

An extended version of java.applet.Applet that adds support for the JFC/Swing component architecture. You can find task-oriented documentation about using JApplet in *The Java Tutorial*, in the section [How to Make Applets](http://java.sun.com/docs/books/tutorial/uiswing/components/applet.html).

The JApplet class is slightly incompatible with java.applet.Applet. JApplet contains a JRootPane as its only child. The contentPane should be the parent of any children of the JApplet. As a convenience add and its variants, remove and setLayout have been overridden to forward to the contentPane as necessary. This means you can write:

applet.add(child);

And the child will be added to the contentPane. The contentPane will always be non-null. Attempting to set it to null will cause the JApplet to throw an exception. The default contentPane will have a BorderLayout manager set on it. Refer to [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) for details on adding, removing and setting the LayoutManager of a JApplet.

Please see the JRootPane documentation for a complete description of the contentPane, glassPane, and layeredPane properties.

**Warning:** Swing is not thread safe. For more information see [Swing's Threading Policy](http://docs.google.com/package-summary.html#threading).

**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).

**See Also:**[RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

| **Nested Class Summary** | |
| --- | --- |
| protected  class | [**JApplet.AccessibleJApplet**](http://docs.google.com/javax/swing/JApplet.AccessibleJApplet.html)            This class implements accessibility support for the JApplet class. |

| **Nested classes/interfaces inherited from class java.applet.**[**Applet**](http://docs.google.com/java/applet/Applet.html) |
| --- |
| [Applet.AccessibleApplet](http://docs.google.com/java/applet/Applet.AccessibleApplet.html) |

| **Nested classes/interfaces inherited from class java.awt.**[**Panel**](http://docs.google.com/java/awt/Panel.html) |
| --- |
| [Panel.AccessibleAWTPanel](http://docs.google.com/java/awt/Panel.AccessibleAWTPanel.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  [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) | [**accessibleContext**](http://docs.google.com/javax/swing/JApplet.html#accessibleContext) |
| protected  [JRootPane](http://docs.google.com/javax/swing/JRootPane.html) | [**rootPane**](http://docs.google.com/javax/swing/JApplet.html#rootPane) |
| protected  boolean | [**rootPaneCheckingEnabled**](http://docs.google.com/javax/swing/JApplet.html#rootPaneCheckingEnabled)            If true then calls to add and setLayout will be forwarded to the contentPane. |

| **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 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** | |
| --- | --- |
| [**JApplet**](http://docs.google.com/javax/swing/JApplet.html#JApplet())()            Creates a swing applet instance. |

| **Method Summary** | |
| --- | --- |
| protected  void | [**addImpl**](http://docs.google.com/javax/swing/JApplet.html#addImpl(java.awt.Component,%20java.lang.Object,%20int))([Component](http://docs.google.com/java/awt/Component.html) comp, [Object](http://docs.google.com/java/lang/Object.html) constraints, int index)            Adds the specified child Component. |
| protected  [JRootPane](http://docs.google.com/javax/swing/JRootPane.html) | [**createRootPane**](http://docs.google.com/javax/swing/JApplet.html#createRootPane())()            Called by the constructor methods to create the default rootPane. |
| [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) | [**getAccessibleContext**](http://docs.google.com/javax/swing/JApplet.html#getAccessibleContext())()            Gets the AccessibleContext associated with this JApplet. |
| [Container](http://docs.google.com/java/awt/Container.html) | [**getContentPane**](http://docs.google.com/javax/swing/JApplet.html#getContentPane())()            Returns the contentPane object for this applet. |
| [Component](http://docs.google.com/java/awt/Component.html) | [**getGlassPane**](http://docs.google.com/javax/swing/JApplet.html#getGlassPane())()            Returns the glassPane object for this applet. |
| [Graphics](http://docs.google.com/java/awt/Graphics.html) | [**getGraphics**](http://docs.google.com/javax/swing/JApplet.html#getGraphics())()            Creates a graphics context for this component. |
| [JMenuBar](http://docs.google.com/javax/swing/JMenuBar.html) | [**getJMenuBar**](http://docs.google.com/javax/swing/JApplet.html#getJMenuBar())()            Returns the menubar set on this applet. |
| [JLayeredPane](http://docs.google.com/javax/swing/JLayeredPane.html) | [**getLayeredPane**](http://docs.google.com/javax/swing/JApplet.html#getLayeredPane())()            Returns the layeredPane object for this applet. |
| [JRootPane](http://docs.google.com/javax/swing/JRootPane.html) | [**getRootPane**](http://docs.google.com/javax/swing/JApplet.html#getRootPane())()            Returns the rootPane object for this applet. |
| [TransferHandler](http://docs.google.com/javax/swing/TransferHandler.html) | [**getTransferHandler**](http://docs.google.com/javax/swing/JApplet.html#getTransferHandler())()            Gets the transferHandler property. |
| protected  boolean | [**isRootPaneCheckingEnabled**](http://docs.google.com/javax/swing/JApplet.html#isRootPaneCheckingEnabled())()            Returns whether calls to add and setLayout are forwarded to the contentPane. |
| protected  [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/javax/swing/JApplet.html#paramString())()            Returns a string representation of this JApplet. |
| void | [**remove**](http://docs.google.com/javax/swing/JApplet.html#remove(java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) comp)            Removes the specified component from the container. |
| void | [**repaint**](http://docs.google.com/javax/swing/JApplet.html#repaint(long,%20int,%20int,%20int,%20int))(long time, int x, int y, int width, int height)            Repaints the specified rectangle of this component within time milliseconds. |
| void | [**setContentPane**](http://docs.google.com/javax/swing/JApplet.html#setContentPane(java.awt.Container))([Container](http://docs.google.com/java/awt/Container.html) contentPane)            Sets the contentPane property. |
| void | [**setGlassPane**](http://docs.google.com/javax/swing/JApplet.html#setGlassPane(java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) glassPane)            Sets the glassPane property. |
| void | [**setJMenuBar**](http://docs.google.com/javax/swing/JApplet.html#setJMenuBar(javax.swing.JMenuBar))([JMenuBar](http://docs.google.com/javax/swing/JMenuBar.html) menuBar)            Sets the menubar for this applet. |
| void | [**setLayeredPane**](http://docs.google.com/javax/swing/JApplet.html#setLayeredPane(javax.swing.JLayeredPane))([JLayeredPane](http://docs.google.com/javax/swing/JLayeredPane.html) layeredPane)            Sets the layeredPane property. |
| void | [**setLayout**](http://docs.google.com/javax/swing/JApplet.html#setLayout(java.awt.LayoutManager))([LayoutManager](http://docs.google.com/java/awt/LayoutManager.html) manager)            Sets the LayoutManager. |
| protected  void | [**setRootPane**](http://docs.google.com/javax/swing/JApplet.html#setRootPane(javax.swing.JRootPane))([JRootPane](http://docs.google.com/javax/swing/JRootPane.html) root)            Sets the rootPane property. |
| protected  void | [**setRootPaneCheckingEnabled**](http://docs.google.com/javax/swing/JApplet.html#setRootPaneCheckingEnabled(boolean))(boolean enabled)            Sets whether calls to add and setLayout are forwarded to the contentPane. |
| void | [**setTransferHandler**](http://docs.google.com/javax/swing/JApplet.html#setTransferHandler(javax.swing.TransferHandler))([TransferHandler](http://docs.google.com/javax/swing/TransferHandler.html) newHandler)            Sets the transferHandler property, which is a mechanism to support transfer of data into this component. |
| void | [**update**](http://docs.google.com/javax/swing/JApplet.html#update(java.awt.Graphics))([Graphics](http://docs.google.com/java/awt/Graphics.html) g)            Just calls paint(g). |

| **Methods inherited from class java.applet.**[**Applet**](http://docs.google.com/java/applet/Applet.html) |
| --- |
| [destroy](http://docs.google.com/java/applet/Applet.html#destroy()), [getAppletContext](http://docs.google.com/java/applet/Applet.html#getAppletContext()), [getAppletInfo](http://docs.google.com/java/applet/Applet.html#getAppletInfo()), [getAudioClip](http://docs.google.com/java/applet/Applet.html#getAudioClip(java.net.URL)), [getAudioClip](http://docs.google.com/java/applet/Applet.html#getAudioClip(java.net.URL,%20java.lang.String)), [getCodeBase](http://docs.google.com/java/applet/Applet.html#getCodeBase()), [getDocumentBase](http://docs.google.com/java/applet/Applet.html#getDocumentBase()), [getImage](http://docs.google.com/java/applet/Applet.html#getImage(java.net.URL)), [getImage](http://docs.google.com/java/applet/Applet.html#getImage(java.net.URL,%20java.lang.String)), [getLocale](http://docs.google.com/java/applet/Applet.html#getLocale()), [getParameter](http://docs.google.com/java/applet/Applet.html#getParameter(java.lang.String)), [getParameterInfo](http://docs.google.com/java/applet/Applet.html#getParameterInfo()), [init](http://docs.google.com/java/applet/Applet.html#init()), [isActive](http://docs.google.com/java/applet/Applet.html#isActive()), [newAudioClip](http://docs.google.com/java/applet/Applet.html#newAudioClip(java.net.URL)), [play](http://docs.google.com/java/applet/Applet.html#play(java.net.URL)), [play](http://docs.google.com/java/applet/Applet.html#play(java.net.URL,%20java.lang.String)), [resize](http://docs.google.com/java/applet/Applet.html#resize(java.awt.Dimension)), [resize](http://docs.google.com/java/applet/Applet.html#resize(int,%20int)), [setStub](http://docs.google.com/java/applet/Applet.html#setStub(java.applet.AppletStub)), [showStatus](http://docs.google.com/java/applet/Applet.html#showStatus(java.lang.String)), [start](http://docs.google.com/java/applet/Applet.html#start()), [stop](http://docs.google.com/java/applet/Applet.html#stop()) |

| **Methods inherited from class java.awt.**[**Panel**](http://docs.google.com/java/awt/Panel.html) |
| --- |
| [addNotify](http://docs.google.com/java/awt/Panel.html#addNotify()) |

| **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)), [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)), [getAlignmentX](http://docs.google.com/java/awt/Container.html#getAlignmentX()), [getAlignmentY](http://docs.google.com/java/awt/Container.html#getAlignmentY()), [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()), [getInsets](http://docs.google.com/java/awt/Container.html#getInsets()), [getLayout](http://docs.google.com/java/awt/Container.html#getLayout()), [getListeners](http://docs.google.com/java/awt/Container.html#getListeners(java.lang.Class)), [getMaximumSize](http://docs.google.com/java/awt/Container.html#getMaximumSize()), [getMinimumSize](http://docs.google.com/java/awt/Container.html#getMinimumSize()), [getMousePosition](http://docs.google.com/java/awt/Container.html#getMousePosition(boolean)), [getPreferredSize](http://docs.google.com/java/awt/Container.html#getPreferredSize()), [insets](http://docs.google.com/java/awt/Container.html#insets()), [invalidate](http://docs.google.com/java/awt/Container.html#invalidate()), [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()), [paint](http://docs.google.com/java/awt/Container.html#paint(java.awt.Graphics)), [paintComponents](http://docs.google.com/java/awt/Container.html#paintComponents(java.awt.Graphics)), [preferredSize](http://docs.google.com/java/awt/Container.html#preferredSize()), [print](http://docs.google.com/java/awt/Container.html#print(java.awt.Graphics)), [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(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)), [removeNotify](http://docs.google.com/java/awt/Container.html#removeNotify()), [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)), [setFocusTraversalKeys](http://docs.google.com/java/awt/Container.html#setFocusTraversalKeys(int,%20java.util.Set)), [setFocusTraversalPolicy](http://docs.google.com/java/awt/Container.html#setFocusTraversalPolicy(java.awt.FocusTraversalPolicy)), [setFocusTraversalPolicyProvider](http://docs.google.com/java/awt/Container.html#setFocusTraversalPolicyProvider(boolean)), [setFont](http://docs.google.com/java/awt/Container.html#setFont(java.awt.Font)), [transferFocusBackward](http://docs.google.com/java/awt/Container.html#transferFocusBackward()), [transferFocusDownCycle](http://docs.google.com/java/awt/Container.html#transferFocusDownCycle()), [validate](http://docs.google.com/java/awt/Container.html#validate()), [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(int,%20int)), [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)), [disable](http://docs.google.com/java/awt/Component.html#disable()), [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()), [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)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20boolean,%20boolean)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20byte,%20byte)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20char,%20char)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20double,%20double)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20float,%20float)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20int,%20int)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20long,%20long)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [firePropertyChange](http://docs.google.com/java/awt/Component.html#firePropertyChange(java.lang.String,%20short,%20short)), [getBackground](http://docs.google.com/java/awt/Component.html#getBackground()), [getBaseline](http://docs.google.com/java/awt/Component.html#getBaseline(int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/java/awt/Component.html#getBaselineResizeBehavior()), [getBounds](http://docs.google.com/java/awt/Component.html#getBounds()), [getBounds](http://docs.google.com/java/awt/Component.html#getBounds(java.awt.Rectangle)), [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()), [getFontMetrics](http://docs.google.com/java/awt/Component.html#getFontMetrics(java.awt.Font)), [getForeground](http://docs.google.com/java/awt/Component.html#getForeground()), [getGraphicsConfiguration](http://docs.google.com/java/awt/Component.html#getGraphicsConfiguration()), [getHeight](http://docs.google.com/java/awt/Component.html#getHeight()), [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()), [getLocation](http://docs.google.com/java/awt/Component.html#getLocation()), [getLocation](http://docs.google.com/java/awt/Component.html#getLocation(java.awt.Point)), [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()), [getSize](http://docs.google.com/java/awt/Component.html#getSize(java.awt.Dimension)), [getToolkit](http://docs.google.com/java/awt/Component.html#getToolkit()), [getTreeLock](http://docs.google.com/java/awt/Component.html#getTreeLock()), [getWidth](http://docs.google.com/java/awt/Component.html#getWidth()), [getX](http://docs.google.com/java/awt/Component.html#getX()), [getY](http://docs.google.com/java/awt/Component.html#getY()), [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()), [imageUpdate](http://docs.google.com/java/awt/Component.html#imageUpdate(java.awt.Image,%20int,%20int,%20int,%20int,%20int)), [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()), [isDoubleBuffered](http://docs.google.com/java/awt/Component.html#isDoubleBuffered()), [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()), [isOpaque](http://docs.google.com/java/awt/Component.html#isOpaque()), [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)), [printAll](http://docs.google.com/java/awt/Component.html#printAll(java.awt.Graphics)), [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)), [processKeyEvent](http://docs.google.com/java/awt/Component.html#processKeyEvent(java.awt.event.KeyEvent)), [processMouseEvent](http://docs.google.com/java/awt/Component.html#processMouseEvent(java.awt.event.MouseEvent)), [processMouseMotionEvent](http://docs.google.com/java/awt/Component.html#processMouseMotionEvent(java.awt.event.MouseEvent)), [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()), [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)), [requestFocus](http://docs.google.com/java/awt/Component.html#requestFocus()), [requestFocus](http://docs.google.com/java/awt/Component.html#requestFocus(boolean)), [requestFocusInWindow](http://docs.google.com/java/awt/Component.html#requestFocusInWindow()), [requestFocusInWindow](http://docs.google.com/java/awt/Component.html#requestFocusInWindow(boolean)), [reshape](http://docs.google.com/java/awt/Component.html#reshape(int,%20int,%20int,%20int)), [setBackground](http://docs.google.com/java/awt/Component.html#setBackground(java.awt.Color)), [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)), [setEnabled](http://docs.google.com/java/awt/Component.html#setEnabled(boolean)), [setFocusable](http://docs.google.com/java/awt/Component.html#setFocusable(boolean)), [setFocusTraversalKeysEnabled](http://docs.google.com/java/awt/Component.html#setFocusTraversalKeysEnabled(boolean)), [setForeground](http://docs.google.com/java/awt/Component.html#setForeground(java.awt.Color)), [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)), [setMaximumSize](http://docs.google.com/java/awt/Component.html#setMaximumSize(java.awt.Dimension)), [setMinimumSize](http://docs.google.com/java/awt/Component.html#setMinimumSize(java.awt.Dimension)), [setName](http://docs.google.com/java/awt/Component.html#setName(java.lang.String)), [setPreferredSize](http://docs.google.com/java/awt/Component.html#setPreferredSize(java.awt.Dimension)), [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)), [setVisible](http://docs.google.com/java/awt/Component.html#setVisible(boolean)), [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** |
| --- |

### rootPane

protected [JRootPane](http://docs.google.com/javax/swing/JRootPane.html) **rootPane**

**See Also:**[getRootPane()](http://docs.google.com/javax/swing/JApplet.html#getRootPane()), [setRootPane(javax.swing.JRootPane)](http://docs.google.com/javax/swing/JApplet.html#setRootPane(javax.swing.JRootPane))

### rootPaneCheckingEnabled

protected boolean **rootPaneCheckingEnabled**

If true then calls to add and setLayout will be forwarded to the contentPane. This is initially false, but is set to true when the JApplet is constructed.

**See Also:**[isRootPaneCheckingEnabled()](http://docs.google.com/javax/swing/JApplet.html#isRootPaneCheckingEnabled()), [setRootPaneCheckingEnabled(boolean)](http://docs.google.com/javax/swing/JApplet.html#setRootPaneCheckingEnabled(boolean)), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

### accessibleContext

protected [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) **accessibleContext**

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

### JApplet

public **JApplet**()  
 throws [HeadlessException](http://docs.google.com/java/awt/HeadlessException.html)

Creates a swing applet instance.

This constructor sets the component's locale property to the value returned by JComponent.getDefaultLocale.

**Throws:** [HeadlessException](http://docs.google.com/java/awt/HeadlessException.html) - if GraphicsEnvironment.isHeadless() returns true.**See Also:**[GraphicsEnvironment.isHeadless()](http://docs.google.com/java/awt/GraphicsEnvironment.html#isHeadless()), [JComponent.getDefaultLocale()](http://docs.google.com/javax/swing/JComponent.html#getDefaultLocale())

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

### createRootPane

protected [JRootPane](http://docs.google.com/javax/swing/JRootPane.html) **createRootPane**()

Called by the constructor methods to create the default rootPane.

### setTransferHandler

public void **setTransferHandler**([TransferHandler](http://docs.google.com/javax/swing/TransferHandler.html) newHandler)

Sets the transferHandler property, which is a mechanism to support transfer of data into this component. Use null if the component does not support data transfer operations.

If the system property suppressSwingDropSupport is false (the default) and the current drop target on this component is either null or not a user-set drop target, this method will change the drop target as follows: If newHandler is null it will clear the drop target. If not null it will install a new DropTarget.

Note: When used with JApplet, TransferHandler only provides data import capability, as the data export related methods are currently typed to JComponent.

Please see  [How to Use Drag and Drop and Data Transfer](http://java.sun.com/docs/books/tutorial/uiswing/misc/dnd.html), a section in *The Java Tutorial*, for more information.

**Parameters:**newHandler - the new TransferHandler**Since:** 1.6 **See Also:**[TransferHandler](http://docs.google.com/javax/swing/TransferHandler.html), [getTransferHandler()](http://docs.google.com/javax/swing/JApplet.html#getTransferHandler()), [Component.setDropTarget(java.awt.dnd.DropTarget)](http://docs.google.com/java/awt/Component.html#setDropTarget(java.awt.dnd.DropTarget))

### getTransferHandler

public [TransferHandler](http://docs.google.com/javax/swing/TransferHandler.html) **getTransferHandler**()

Gets the transferHandler property.

**Returns:**the value of the transferHandler property**Since:** 1.6 **See Also:**[TransferHandler](http://docs.google.com/javax/swing/TransferHandler.html), [setTransferHandler(javax.swing.TransferHandler)](http://docs.google.com/javax/swing/JApplet.html#setTransferHandler(javax.swing.TransferHandler))

### update

public void **update**([Graphics](http://docs.google.com/java/awt/Graphics.html) g)

Just calls paint(g). This method was overridden to prevent an unnecessary call to clear the background.

**Overrides:**[update](http://docs.google.com/java/awt/Container.html#update(java.awt.Graphics)) in class [Container](http://docs.google.com/java/awt/Container.html) **Parameters:**g - the specified Graphics window**See Also:**[Component.update(Graphics)](http://docs.google.com/java/awt/Component.html#update(java.awt.Graphics))

### setJMenuBar

public void **setJMenuBar**([JMenuBar](http://docs.google.com/javax/swing/JMenuBar.html) menuBar)

Sets the menubar for this applet.

**Parameters:**menuBar - the menubar being placed in the applet**See Also:**[getJMenuBar()](http://docs.google.com/javax/swing/JApplet.html#getJMenuBar())

### getJMenuBar

public [JMenuBar](http://docs.google.com/javax/swing/JMenuBar.html) **getJMenuBar**()

Returns the menubar set on this applet.

**See Also:**[setJMenuBar(javax.swing.JMenuBar)](http://docs.google.com/javax/swing/JApplet.html#setJMenuBar(javax.swing.JMenuBar))

### isRootPaneCheckingEnabled

protected boolean **isRootPaneCheckingEnabled**()

Returns whether calls to add and setLayout are forwarded to the contentPane.

**Returns:**true if add and setLayout are fowarded; false otherwise**See Also:**[addImpl(java.awt.Component, java.lang.Object, int)](http://docs.google.com/javax/swing/JApplet.html#addImpl(java.awt.Component,%20java.lang.Object,%20int)), [setLayout(java.awt.LayoutManager)](http://docs.google.com/javax/swing/JApplet.html#setLayout(java.awt.LayoutManager)), [setRootPaneCheckingEnabled(boolean)](http://docs.google.com/javax/swing/JApplet.html#setRootPaneCheckingEnabled(boolean)), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

### setRootPaneCheckingEnabled

protected void **setRootPaneCheckingEnabled**(boolean enabled)

Sets whether calls to add and setLayout are forwarded to the contentPane.

**Parameters:**enabled - true if add and setLayout are forwarded, false if they should operate directly on the JApplet.**See Also:**[addImpl(java.awt.Component, java.lang.Object, int)](http://docs.google.com/javax/swing/JApplet.html#addImpl(java.awt.Component,%20java.lang.Object,%20int)), [setLayout(java.awt.LayoutManager)](http://docs.google.com/javax/swing/JApplet.html#setLayout(java.awt.LayoutManager)), [isRootPaneCheckingEnabled()](http://docs.google.com/javax/swing/JApplet.html#isRootPaneCheckingEnabled()), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

### addImpl

protected void **addImpl**([Component](http://docs.google.com/java/awt/Component.html) comp,  
 [Object](http://docs.google.com/java/lang/Object.html) constraints,  
 int index)

Adds the specified child Component. This method is overridden to conditionally forward calls to the contentPane. By default, children are added to the contentPane instead of the frame, refer to [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) for details.

**Overrides:**[addImpl](http://docs.google.com/java/awt/Container.html#addImpl(java.awt.Component,%20java.lang.Object,%20int)) in class [Container](http://docs.google.com/java/awt/Container.html) **Parameters:**comp - the component to be enhancedconstraints - the constraints to be respectedindex - the index **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if index is invalid [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if adding the container's parent to itself [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if adding a window to a container**See Also:**[setRootPaneCheckingEnabled(boolean)](http://docs.google.com/javax/swing/JApplet.html#setRootPaneCheckingEnabled(boolean)), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

### remove

public void **remove**([Component](http://docs.google.com/java/awt/Component.html) comp)

Removes the specified component from the container. If comp is not the rootPane, this will forward the call to the contentPane. This will do nothing if comp is not a child of the JFrame or contentPane.

**Overrides:**[remove](http://docs.google.com/java/awt/Container.html#remove(java.awt.Component)) in class [Container](http://docs.google.com/java/awt/Container.html) **Parameters:**comp - the component to be removed **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if comp is null**See Also:**[Container.add(java.awt.Component)](http://docs.google.com/java/awt/Container.html#add(java.awt.Component)), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

### setLayout

public void **setLayout**([LayoutManager](http://docs.google.com/java/awt/LayoutManager.html) manager)

Sets the LayoutManager. Overridden to conditionally forward the call to the contentPane. Refer to [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) for more information.

**Overrides:**[setLayout](http://docs.google.com/java/awt/Container.html#setLayout(java.awt.LayoutManager)) in class [Container](http://docs.google.com/java/awt/Container.html) **Parameters:**manager - the LayoutManager**See Also:**[setRootPaneCheckingEnabled(boolean)](http://docs.google.com/javax/swing/JApplet.html#setRootPaneCheckingEnabled(boolean)), [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html)

### getRootPane

public [JRootPane](http://docs.google.com/javax/swing/JRootPane.html) **getRootPane**()

Returns the rootPane object for this applet.

**Specified by:**[getRootPane](http://docs.google.com/javax/swing/RootPaneContainer.html#getRootPane()) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Returns:**this components single JRootPane child.**See Also:**[setRootPane(javax.swing.JRootPane)](http://docs.google.com/javax/swing/JApplet.html#setRootPane(javax.swing.JRootPane)), [RootPaneContainer.getRootPane()](http://docs.google.com/javax/swing/RootPaneContainer.html#getRootPane())

### setRootPane

protected void **setRootPane**([JRootPane](http://docs.google.com/javax/swing/JRootPane.html) root)

Sets the rootPane property. This method is called by the constructor.

**Parameters:**root - the rootPane object for this applet**See Also:**[getRootPane()](http://docs.google.com/javax/swing/JApplet.html#getRootPane())

### getContentPane

public [Container](http://docs.google.com/java/awt/Container.html) **getContentPane**()

Returns the contentPane object for this applet.

**Specified by:**[getContentPane](http://docs.google.com/javax/swing/RootPaneContainer.html#getContentPane()) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Returns:**the value of the contentPane property.**See Also:**[setContentPane(java.awt.Container)](http://docs.google.com/javax/swing/JApplet.html#setContentPane(java.awt.Container)), [RootPaneContainer.getContentPane()](http://docs.google.com/javax/swing/RootPaneContainer.html#getContentPane())

### setContentPane

public void **setContentPane**([Container](http://docs.google.com/java/awt/Container.html) contentPane)

Sets the contentPane property. This method is called by the constructor.

**Specified by:**[setContentPane](http://docs.google.com/javax/swing/RootPaneContainer.html#setContentPane(java.awt.Container)) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Parameters:**contentPane - the contentPane object for this applet **Throws:** [IllegalComponentStateException](http://docs.google.com/java/awt/IllegalComponentStateException.html) - (a runtime exception) if the content pane parameter is null**See Also:**[getContentPane()](http://docs.google.com/javax/swing/JApplet.html#getContentPane()), [RootPaneContainer.setContentPane(java.awt.Container)](http://docs.google.com/javax/swing/RootPaneContainer.html#setContentPane(java.awt.Container))

### getLayeredPane

public [JLayeredPane](http://docs.google.com/javax/swing/JLayeredPane.html) **getLayeredPane**()

Returns the layeredPane object for this applet.

**Specified by:**[getLayeredPane](http://docs.google.com/javax/swing/RootPaneContainer.html#getLayeredPane()) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Returns:**the value of the layeredPane property. **Throws:** [IllegalComponentStateException](http://docs.google.com/java/awt/IllegalComponentStateException.html) - (a runtime exception) if the layered pane parameter is null**See Also:**[setLayeredPane(javax.swing.JLayeredPane)](http://docs.google.com/javax/swing/JApplet.html#setLayeredPane(javax.swing.JLayeredPane)), [RootPaneContainer.getLayeredPane()](http://docs.google.com/javax/swing/RootPaneContainer.html#getLayeredPane())

### setLayeredPane

public void **setLayeredPane**([JLayeredPane](http://docs.google.com/javax/swing/JLayeredPane.html) layeredPane)

Sets the layeredPane property. This method is called by the constructor.

**Specified by:**[setLayeredPane](http://docs.google.com/javax/swing/RootPaneContainer.html#setLayeredPane(javax.swing.JLayeredPane)) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Parameters:**layeredPane - the layeredPane object for this applet**See Also:**[getLayeredPane()](http://docs.google.com/javax/swing/JApplet.html#getLayeredPane()), [RootPaneContainer.setLayeredPane(javax.swing.JLayeredPane)](http://docs.google.com/javax/swing/RootPaneContainer.html#setLayeredPane(javax.swing.JLayeredPane))

### getGlassPane

public [Component](http://docs.google.com/java/awt/Component.html) **getGlassPane**()

Returns the glassPane object for this applet.

**Specified by:**[getGlassPane](http://docs.google.com/javax/swing/RootPaneContainer.html#getGlassPane()) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Returns:**the value of the glassPane property.**See Also:**[setGlassPane(java.awt.Component)](http://docs.google.com/javax/swing/JApplet.html#setGlassPane(java.awt.Component)), [RootPaneContainer.getGlassPane()](http://docs.google.com/javax/swing/RootPaneContainer.html#getGlassPane())

### setGlassPane

public void **setGlassPane**([Component](http://docs.google.com/java/awt/Component.html) glassPane)

Sets the glassPane property. This method is called by the constructor.

**Specified by:**[setGlassPane](http://docs.google.com/javax/swing/RootPaneContainer.html#setGlassPane(java.awt.Component)) in interface [RootPaneContainer](http://docs.google.com/javax/swing/RootPaneContainer.html) **Parameters:**glassPane - the glassPane object for this applet**See Also:**[getGlassPane()](http://docs.google.com/javax/swing/JApplet.html#getGlassPane()), [RootPaneContainer.setGlassPane(java.awt.Component)](http://docs.google.com/javax/swing/RootPaneContainer.html#setGlassPane(java.awt.Component))

### getGraphics

public [Graphics](http://docs.google.com/java/awt/Graphics.html) **getGraphics**()

Creates a graphics context for this component. This method will return null if this component is currently not displayable.

**Overrides:**[getGraphics](http://docs.google.com/java/awt/Component.html#getGraphics()) in class [Component](http://docs.google.com/java/awt/Component.html) **Returns:**a graphics context for this component, or null if it has none**Since:** 1.6 **See Also:**[Component.paint(java.awt.Graphics)](http://docs.google.com/java/awt/Component.html#paint(java.awt.Graphics))

### repaint

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

Repaints the specified rectangle of this component within time milliseconds. Refer to RepaintManager for details on how the repaint is handled.

**Overrides:**[repaint](http://docs.google.com/java/awt/Component.html#repaint(long,%20int,%20int,%20int,%20int)) in class [Component](http://docs.google.com/java/awt/Component.html) **Parameters:**time - maximum time in milliseconds before updatex - the *x* coordinatey - the *y* coordinatewidth - the widthheight - the height**Since:** 1.6 **See Also:**[RepaintManager](http://docs.google.com/javax/swing/RepaintManager.html)

### paramString

protected [String](http://docs.google.com/java/lang/String.html) **paramString**()

Returns a string representation of this JApplet. This method is intended to be used only for debugging purposes, and the content and format of the returned string may vary between implementations. The returned string may be empty but may not be null.

**Overrides:**[paramString](http://docs.google.com/java/awt/Container.html#paramString()) in class [Container](http://docs.google.com/java/awt/Container.html) **Returns:**a string representation of this JApplet.

### getAccessibleContext

public [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) **getAccessibleContext**()

Gets the AccessibleContext associated with this JApplet. For JApplets, the AccessibleContext takes the form of an AccessibleJApplet. A new AccessibleJApplet instance is created if necessary.

**Specified by:**[getAccessibleContext](http://docs.google.com/javax/accessibility/Accessible.html#getAccessibleContext()) in interface [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)**Overrides:**[getAccessibleContext](http://docs.google.com/java/applet/Applet.html#getAccessibleContext()) in class [Applet](http://docs.google.com/java/applet/Applet.html) **Returns:**an AccessibleJApplet that serves as the AccessibleContext of this JApplet

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JApplet.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/InternalFrameFocusTraversalPolicy.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/JApplet.AccessibleJApplet.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/JApplet.html)    [**NO FRAMES**](http://docs.google.com/JApplet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#4d34og8) | [CONSTR](#3rdcrjn) | [METHOD](#26in1rg) | DETAIL: [FIELD](#z337ya) | [CONSTR](#2xcytpi) | [METHOD](#3whwml4) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

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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