| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/swing/JInternalFrame.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/swing//class-useJInternalFrame.html)    [**NO FRAMES**](http://docs.google.com/JInternalFrame.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**javax.swing.JInternalFrame**

| Packages that use [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| [**javax.swing**](#3znysh7) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.swing.event**](#2et92p0) | Provides for events fired by Swing components. |
| [**javax.swing.plaf.basic**](#tyjcwt) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.plaf.metal**](#3dy6vkm) | Provides user interface objects built according to the Java look and feel (once codenamed *Metal*), which is the default look and feel. |

| Uses of [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
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| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that return [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **JOptionPane.**[**createInternalFrame**](http://docs.google.com/javax/swing/JOptionPane.html#createInternalFrame(java.awt.Component,%20java.lang.String))([Component](http://docs.google.com/java/awt/Component.html) parentComponent, [String](http://docs.google.com/java/lang/String.html) title)            Creates and returns an instance of JInternalFrame. |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html)[] | **JDesktopPane.**[**getAllFrames**](http://docs.google.com/javax/swing/JDesktopPane.html#getAllFrames())()            Returns all JInternalFrames currently displayed in the desktop. |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html)[] | **JDesktopPane.**[**getAllFramesInLayer**](http://docs.google.com/javax/swing/JDesktopPane.html#getAllFramesInLayer(int))(int layer)            Returns all JInternalFrames currently displayed in the specified layer of the desktop. |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **JInternalFrame.JDesktopIcon.**[**getInternalFrame**](http://docs.google.com/javax/swing/JInternalFrame.JDesktopIcon.html#getInternalFrame())()            Returns the JInternalFrame that this DesktopIcon is associated with. |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **JDesktopPane.**[**getSelectedFrame**](http://docs.google.com/javax/swing/JDesktopPane.html#getSelectedFrame())()            Returns the currently active JInternalFrame in this JDesktopPane, or null if no JInternalFrame is currently active. |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **JDesktopPane.**[**selectFrame**](http://docs.google.com/javax/swing/JDesktopPane.html#selectFrame(boolean))(boolean forward)            Selects the next JInternalFrame in this desktop pane. |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| void | **DefaultDesktopManager.**[**activateFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#activateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This will activate **f** moving it to the front. |
| void | **DesktopManager.**[**activateFrame**](http://docs.google.com/javax/swing/DesktopManager.html#activateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, indicate that this frame has focus. |
| void | **DefaultDesktopManager.**[**closeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#closeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Removes the frame, and, if necessary, the desktopIcon, from its parent. |
| void | **DesktopManager.**[**closeFrame**](http://docs.google.com/javax/swing/DesktopManager.html#closeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, this call should remove the frame from it's parent. |
| void | **DefaultDesktopManager.**[**deactivateFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#deactivateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f) |
| void | **DesktopManager.**[**deactivateFrame**](http://docs.google.com/javax/swing/DesktopManager.html#deactivateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, indicate that this frame has lost focus. |
| void | **DefaultDesktopManager.**[**deiconifyFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#deiconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Removes the desktopIcon from its parent and adds its frame to the parent. |
| void | **DesktopManager.**[**deiconifyFrame**](http://docs.google.com/javax/swing/DesktopManager.html#deiconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, remove any iconic representation that is present and restore the frame to it's original size and location. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **DefaultDesktopManager.**[**getBoundsForIconOf**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#getBoundsForIconOf(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            The iconifyFrame() code calls this to determine the proper bounds for the desktopIcon. |
| [Component](http://docs.google.com/java/awt/Component.html) | **InternalFrameFocusTraversalPolicy.**[**getInitialComponent**](http://docs.google.com/javax/swing/InternalFrameFocusTraversalPolicy.html#getInitialComponent(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) frame)            Returns the Component that should receive the focus when a JInternalFrame is selected for the first time. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **DefaultDesktopManager.**[**getPreviousBounds**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#getPreviousBounds(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Gets the normal bounds of the component prior to the component being maximized. |
| void | **DefaultDesktopManager.**[**iconifyFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#iconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Removes the frame from its parent and adds its desktopIcon to the parent. |
| void | **DesktopManager.**[**iconifyFrame**](http://docs.google.com/javax/swing/DesktopManager.html#iconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, remove this frame from it's parent and add an iconic representation. |
| void | **DefaultDesktopManager.**[**maximizeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#maximizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Resizes the frame to fill its parents bounds. |
| void | **DesktopManager.**[**maximizeFrame**](http://docs.google.com/javax/swing/DesktopManager.html#maximizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, the frame should be resized to match it's parents bounds. |
| void | **DefaultDesktopManager.**[**minimizeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#minimizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Restores the frame back to its size and position prior to a maximizeFrame call. |
| void | **DesktopManager.**[**minimizeFrame**](http://docs.google.com/javax/swing/DesktopManager.html#minimizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, this indicates that the frame should be restored to it's size and position prior to a maximizeFrame() call. |
| void | **DefaultDesktopManager.**[**openFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#openFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Normally this method will not be called. |
| void | **DesktopManager.**[**openFrame**](http://docs.google.com/javax/swing/DesktopManager.html#openFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            If possible, display this frame in an appropriate location. |
| protected  void | **DefaultDesktopManager.**[**removeIconFor**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#removeIconFor(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Convenience method to remove the desktopIcon of **f** is necessary. |
| void | **JInternalFrame.JDesktopIcon.**[**setInternalFrame**](http://docs.google.com/javax/swing/JInternalFrame.JDesktopIcon.html#setInternalFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Sets the JInternalFrame with which this DesktopIcon is associated. |
| protected  void | **DefaultDesktopManager.**[**setPreviousBounds**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#setPreviousBounds(javax.swing.JInternalFrame,%20java.awt.Rectangle))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the bounds of the component just before a maximize call. |
| void | **JDesktopPane.**[**setSelectedFrame**](http://docs.google.com/javax/swing/JDesktopPane.html#setSelectedFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Sets the currently active JInternalFrame in this JDesktopPane. |
| protected  void | **DefaultDesktopManager.**[**setWasIcon**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#setWasIcon(javax.swing.JInternalFrame,%20java.lang.Boolean))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f, [Boolean](http://docs.google.com/java/lang/Boolean.html) value)            Sets that the component has been iconized and the bounds of the desktopIcon are valid. |
| protected  boolean | **DefaultDesktopManager.**[**wasIcon**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#wasIcon(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Returns true if the component has been iconized and the bounds of the desktopIcon are valid, otherwise returns false. |

| Constructors in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
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| [**JInternalFrame.JDesktopIcon**](http://docs.google.com/javax/swing/JInternalFrame.JDesktopIcon.html#JInternalFrame.JDesktopIcon(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Creates an icon for an internal frame. |

| Uses of [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) in [javax.swing.event](http://docs.google.com/javax/swing/event/package-summary.html) | |
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| Methods in [javax.swing.event](http://docs.google.com/javax/swing/event/package-summary.html) that return [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **InternalFrameEvent.**[**getInternalFrame**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#getInternalFrame())()            Returns the originator of the event. |

| Constructors in [javax.swing.event](http://docs.google.com/javax/swing/event/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| [**InternalFrameEvent**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#InternalFrameEvent(javax.swing.JInternalFrame,%20int))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) source, int id)            Constructs an InternalFrameEvent object. |

| Uses of [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
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| Fields in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) declared as [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| protected  [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **BasicInternalFrameTitlePane.**[**frame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameTitlePane.html#frame) |
| protected  [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **BasicInternalFrameUI.**[**frame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#frame) |
| protected  [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | **BasicDesktopIconUI.**[**frame**](http://docs.google.com/javax/swing/plaf/basic/BasicDesktopIconUI.html#frame) |

| Methods in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
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| protected  void | **BasicInternalFrameUI.**[**activateFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#activateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the frame becomes selected. |
| protected  void | **BasicInternalFrameUI.**[**closeFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#closeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the user wants to close the frame. |
| protected  [MouseInputAdapter](http://docs.google.com/javax/swing/event/MouseInputAdapter.html) | **BasicInternalFrameUI.**[**createBorderListener**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#createBorderListener(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w) |
| protected  [JComponent](http://docs.google.com/javax/swing/JComponent.html) | **BasicInternalFrameUI.**[**createEastPane**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#createEastPane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w) |
| protected  [JComponent](http://docs.google.com/javax/swing/JComponent.html) | **BasicInternalFrameUI.**[**createNorthPane**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#createNorthPane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w) |
| protected  [JComponent](http://docs.google.com/javax/swing/JComponent.html) | **BasicInternalFrameUI.**[**createSouthPane**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#createSouthPane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w) |
| protected  [JComponent](http://docs.google.com/javax/swing/JComponent.html) | **BasicInternalFrameUI.**[**createWestPane**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#createWestPane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w) |
| protected  void | **BasicInternalFrameUI.**[**deactivateFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#deactivateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the frame is no longer selected. |
| protected  void | **BasicInternalFrameUI.**[**deiconifyFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#deiconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the user wants to deiconify the frame. |
| protected  void | **BasicInternalFrameUI.**[**iconifyFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#iconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the user wants to iconify the frame. |
| protected  void | **BasicInternalFrameUI.**[**maximizeFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#maximizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the user wants to maximize the frame. |
| protected  void | **BasicInternalFrameUI.**[**minimizeFrame**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#minimizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This method is called when the user wants to minimize the frame. |
| protected  void | **BasicInternalFrameTitlePane.**[**postClosingEvent**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameTitlePane.html#postClosingEvent(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) frame)            Post a WINDOW\_CLOSING-like event to the frame, so that it can be treated like a regular Frame. |

| Constructors in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| [**BasicInternalFrameTitlePane**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameTitlePane.html#BasicInternalFrameTitlePane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f) |
| [**BasicInternalFrameUI**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.html#BasicInternalFrameUI(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) b) |

| Uses of [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) | |
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| Methods in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| protected  [MouseInputAdapter](http://docs.google.com/javax/swing/event/MouseInputAdapter.html) | **MetalInternalFrameUI.**[**createBorderListener**](http://docs.google.com/javax/swing/plaf/metal/MetalInternalFrameUI.html#createBorderListener(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w)            Returns the MouseInputAdapter that will be installed on the TitlePane. |
| protected  [JComponent](http://docs.google.com/javax/swing/JComponent.html) | **MetalInternalFrameUI.**[**createNorthPane**](http://docs.google.com/javax/swing/plaf/metal/MetalInternalFrameUI.html#createNorthPane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) w) |

| Constructors in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) with parameters of type [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | |
| --- | --- |
| [**MetalInternalFrameTitlePane**](http://docs.google.com/javax/swing/plaf/metal/MetalInternalFrameTitlePane.html#MetalInternalFrameTitlePane(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f) |
| [**MetalInternalFrameUI**](http://docs.google.com/javax/swing/plaf/metal/MetalInternalFrameUI.html#MetalInternalFrameUI(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) b) |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/swing/JInternalFrame.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/swing//class-useJInternalFrame.html)    [**NO FRAMES**](http://docs.google.com/JInternalFrame.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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