| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MenuElement.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/LookAndFeel.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/MenuSelectionManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/MenuElement.html)    [**NO FRAMES**](http://docs.google.com/MenuElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **javax.swing**

Interface MenuElement

**All Known Implementing Classes:** [BasicComboPopup](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.html), [BasicInternalFrameTitlePane.SystemMenuBar](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameTitlePane.SystemMenuBar.html), [JCheckBoxMenuItem](http://docs.google.com/javax/swing/JCheckBoxMenuItem.html), [JMenu](http://docs.google.com/javax/swing/JMenu.html), [JMenuBar](http://docs.google.com/javax/swing/JMenuBar.html), [JMenuItem](http://docs.google.com/javax/swing/JMenuItem.html), [JPopupMenu](http://docs.google.com/javax/swing/JPopupMenu.html), [JRadioButtonMenuItem](http://docs.google.com/javax/swing/JRadioButtonMenuItem.html), [MetalComboBoxUI.MetalComboPopup](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxUI.MetalComboPopup.html)

public interface **MenuElement**

Any component that can be placed into a menu should implement this interface. This interface is used by MenuSelectionManager to handle selection and navigation in menu hierarchies.

| **Method Summary** | |
| --- | --- |
| [Component](http://docs.google.com/java/awt/Component.html) | [**getComponent**](http://docs.google.com/javax/swing/MenuElement.html#getComponent())()            This method should return the java.awt.Component used to paint the receiving element. |
| [MenuElement](http://docs.google.com/javax/swing/MenuElement.html)[] | [**getSubElements**](http://docs.google.com/javax/swing/MenuElement.html#getSubElements())()            This method should return an array containing the sub-elements for the receiving menu element |
| void | [**menuSelectionChanged**](http://docs.google.com/javax/swing/MenuElement.html#menuSelectionChanged(boolean))(boolean isIncluded)            Call by the MenuSelectionManager when the MenuElement is added or remove from the menu selection. |
| void | [**processKeyEvent**](http://docs.google.com/javax/swing/MenuElement.html#processKeyEvent(java.awt.event.KeyEvent,%20javax.swing.MenuElement%5B%5D,%20javax.swing.MenuSelectionManager))([KeyEvent](http://docs.google.com/java/awt/event/KeyEvent.html) event, [MenuElement](http://docs.google.com/javax/swing/MenuElement.html)[] path, [MenuSelectionManager](http://docs.google.com/javax/swing/MenuSelectionManager.html) manager)            Process a key event. |
| void | [**processMouseEvent**](http://docs.google.com/javax/swing/MenuElement.html#processMouseEvent(java.awt.event.MouseEvent,%20javax.swing.MenuElement%5B%5D,%20javax.swing.MenuSelectionManager))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) event, [MenuElement](http://docs.google.com/javax/swing/MenuElement.html)[] path, [MenuSelectionManager](http://docs.google.com/javax/swing/MenuSelectionManager.html) manager)            Processes a mouse event. |

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

### processMouseEvent

void **processMouseEvent**([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) event,  
 [MenuElement](http://docs.google.com/javax/swing/MenuElement.html)[] path,  
 [MenuSelectionManager](http://docs.google.com/javax/swing/MenuSelectionManager.html) manager)

Processes a mouse event. event is a MouseEvent with source being the receiving element's component. path is the path of the receiving element in the menu hierarchy including the receiving element itself. manager is the MenuSelectionManager for the menu hierarchy. This method should process the MouseEvent and change the menu selection if necessary by using MenuSelectionManager's API Note: you do not have to forward the event to sub-components. This is done automatically by the MenuSelectionManager.

### processKeyEvent

void **processKeyEvent**([KeyEvent](http://docs.google.com/java/awt/event/KeyEvent.html) event,  
 [MenuElement](http://docs.google.com/javax/swing/MenuElement.html)[] path,  
 [MenuSelectionManager](http://docs.google.com/javax/swing/MenuSelectionManager.html) manager)

Process a key event.

### menuSelectionChanged

void **menuSelectionChanged**(boolean isIncluded)

Call by the MenuSelectionManager when the MenuElement is added or remove from the menu selection.

### getSubElements

[MenuElement](http://docs.google.com/javax/swing/MenuElement.html)[] **getSubElements**()

This method should return an array containing the sub-elements for the receiving menu element

**Returns:**an array of MenuElements

### getComponent

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

This method should return the java.awt.Component used to paint the receiving element. The returned component will be used to convert events and detect if an event is inside a MenuElement's component.

**Returns:**the Component value

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MenuElement.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/LookAndFeel.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/MenuSelectionManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/MenuElement.html)    [**NO FRAMES**](http://docs.google.com/MenuElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).