| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/swing/AbstractButton.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-useAbstractButton.html)    [**NO FRAMES**](http://docs.google.com/AbstractButton.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**javax.swing.AbstractButton**

| Packages that use [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.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.plaf.basic**](#2et92p0) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.plaf.metal**](#tyjcwt) | Provides user interface objects built according to the Java look and feel (once codenamed *Metal*), which is the default look and feel. |

| Uses of [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
| --- | --- |

| Subclasses of [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
| --- | --- |
| class | [**JButton**](http://docs.google.com/javax/swing/JButton.html)            An implementation of a "push" button. |
| class | [**JCheckBox**](http://docs.google.com/javax/swing/JCheckBox.html)            An implementation of a check box -- an item that can be selected or deselected, and which displays its state to the user. |
| class | [**JCheckBoxMenuItem**](http://docs.google.com/javax/swing/JCheckBoxMenuItem.html)            A menu item that can be selected or deselected. |
| class | [**JMenu**](http://docs.google.com/javax/swing/JMenu.html)            An implementation of a menu -- a popup window containing JMenuItems that is displayed when the user selects an item on the JMenuBar. |
| class | [**JMenuItem**](http://docs.google.com/javax/swing/JMenuItem.html)            An implementation of an item in a menu. |
| class | [**JRadioButton**](http://docs.google.com/javax/swing/JRadioButton.html)            An implementation of a radio button -- an item that can be selected or deselected, and which displays its state to the user. |
| class | [**JRadioButtonMenuItem**](http://docs.google.com/javax/swing/JRadioButtonMenuItem.html)            An implementation of a radio button menu item. |
| class | [**JToggleButton**](http://docs.google.com/javax/swing/JToggleButton.html)            An implementation of a two-state button. |

| Fields in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with type parameters of type [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) | |
| --- | --- |
| protected  [Vector](http://docs.google.com/java/util/Vector.html)<[AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html)> | **ButtonGroup.**[**buttons**](http://docs.google.com/javax/swing/ButtonGroup.html#buttons) |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that return types with arguments of type [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) | |
| --- | --- |
| [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html)> | **ButtonGroup.**[**getElements**](http://docs.google.com/javax/swing/ButtonGroup.html#getElements())()            Returns all the buttons that are participating in this group. |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with parameters of type [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) | |
| --- | --- |
| void | **ButtonGroup.**[**add**](http://docs.google.com/javax/swing/ButtonGroup.html#add(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)            Adds the button to the group. |
| void | **ButtonGroup.**[**remove**](http://docs.google.com/javax/swing/ButtonGroup.html#remove(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)            Removes the button from the group. |

| Uses of [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |

| Subclasses of [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |
| class | [**BasicArrowButton**](http://docs.google.com/javax/swing/plaf/basic/BasicArrowButton.html)            JButton object that draws a scaled Arrow in one of the cardinal directions. |

| Methods in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) with parameters of type [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) | |
| --- | --- |
| protected  void | **BasicButtonListener.**[**checkOpacity**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonListener.html#checkOpacity(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  [BasicButtonListener](http://docs.google.com/javax/swing/plaf/basic/BasicButtonListener.html) | **BasicButtonUI.**[**createButtonListener**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#createButtonListener(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| int | **BasicButtonUI.**[**getDefaultTextIconGap**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getDefaultTextIconGap(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  [Border](http://docs.google.com/javax/swing/border/Border.html) | **BasicToolBarUI.**[**getNonRolloverBorder**](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.html#getNonRolloverBorder(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)            Returns a non-rollover border for the button. |
| static [Dimension](http://docs.google.com/java/awt/Dimension.html) | **BasicGraphicsUtils.**[**getPreferredButtonSize**](http://docs.google.com/javax/swing/plaf/basic/BasicGraphicsUtils.html#getPreferredButtonSize(javax.swing.AbstractButton,%20int))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, int textIconGap) |
| protected  [Border](http://docs.google.com/javax/swing/border/Border.html) | **BasicToolBarUI.**[**getRolloverBorder**](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.html#getRolloverBorder(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)            Returns a rollover border for the button. |
| protected  void | **BasicRadioButtonUI.**[**installDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicRadioButtonUI.html#installDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**installDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**installKeyboardActions**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installKeyboardActions(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**installListeners**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installListeners(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**paintButtonPressed**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintButtonPressed(java.awt.Graphics,%20javax.swing.AbstractButton))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintFocus(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **BasicToggleButtonUI.**[**paintIcon**](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **BasicButtonUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text)            Method which renders the text of the current button. |
| protected  void | **BasicRadioButtonUI.**[**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicRadioButtonUI.html#uninstallDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**uninstallKeyboardActions**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallKeyboardActions(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **BasicButtonUI.**[**uninstallListeners**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallListeners(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |

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

| Uses of [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) | |
| --- | --- |

| Subclasses of [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) | |
| --- | --- |
| class | [**MetalComboBoxButton**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxButton.html)            JButton subclass to help out MetalComboBoxUI |
| class | [**MetalScrollButton**](http://docs.google.com/javax/swing/plaf/metal/MetalScrollButton.html)            JButton object for Metal scrollbar arrows. |

| Methods in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) with parameters of type [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) | |
| --- | --- |
| protected  [BasicButtonListener](http://docs.google.com/javax/swing/plaf/basic/BasicButtonListener.html) | **MetalButtonUI.**[**createButtonListener**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#createButtonListener(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| void | **MetalRadioButtonUI.**[**installDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalRadioButtonUI.html#installDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| void | **MetalCheckBoxUI.**[**installDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalCheckBoxUI.html#installDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| void | **MetalToggleButtonUI.**[**installDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#installDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| void | **MetalButtonUI.**[**installDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#installDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **MetalToggleButtonUI.**[**paintButtonPressed**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintButtonPressed(java.awt.Graphics,%20javax.swing.AbstractButton))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **MetalButtonUI.**[**paintButtonPressed**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#paintButtonPressed(java.awt.Graphics,%20javax.swing.AbstractButton))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **MetalToggleButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintFocus(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **MetalButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#paintFocus(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **MetalToggleButtonUI.**[**paintIcon**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect)            Paints the appropriate icon of the button b in the space iconRect. |
| protected  void | **MetalRadioButtonUI.**[**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalRadioButtonUI.html#uninstallDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **MetalCheckBoxUI.**[**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalCheckBoxUI.html#uninstallDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| protected  void | **MetalToggleButtonUI.**[**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#uninstallDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b) |
| void | **MetalButtonUI.**[**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#uninstallDefaults(javax.swing.AbstractButton))([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.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/AbstractButton.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-useAbstractButton.html)    [**NO FRAMES**](http://docs.google.com/AbstractButton.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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