| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MetalToggleButtonUI.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/plaf/metal/MetalTheme.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/metal/MetalToolBarUI.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/metal/MetalToggleButtonUI.html)    [**NO FRAMES**](http://docs.google.com/MetalToggleButtonUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#1ksv4uv) | [METHOD](#2jxsxqh) |

## **javax.swing.plaf.metal**

Class MetalToggleButtonUI

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.swing.plaf.ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html)  
 [javax.swing.plaf.ButtonUI](http://docs.google.com/javax/swing/plaf/ButtonUI.html)  
 [javax.swing.plaf.basic.BasicButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html)  
 [javax.swing.plaf.basic.BasicToggleButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html)  
 **javax.swing.plaf.metal.MetalToggleButtonUI**

public class **MetalToggleButtonUI**extends [BasicToggleButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html)

MetalToggleButton implementation

**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).

| **Field Summary** | |
| --- | --- |
| protected  [Color](http://docs.google.com/java/awt/Color.html) | [**disabledTextColor**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#disabledTextColor) |
| protected  [Color](http://docs.google.com/java/awt/Color.html) | [**focusColor**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#focusColor) |
| protected  [Color](http://docs.google.com/java/awt/Color.html) | [**selectColor**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#selectColor) |

| **Fields inherited from class javax.swing.plaf.basic.**[**BasicButtonUI**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html) |
| --- |
| [defaultTextIconGap](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#defaultTextIconGap), [defaultTextShiftOffset](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#defaultTextShiftOffset) |

| **Constructor Summary** | |
| --- | --- |
| [**MetalToggleButtonUI**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#MetalToggleButtonUI())() |

| **Method Summary** | |
| --- | --- |
| static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) | [**createUI**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#createUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) b) |
| protected  [Color](http://docs.google.com/java/awt/Color.html) | [**getDisabledTextColor**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#getDisabledTextColor())() |
| protected  [Color](http://docs.google.com/java/awt/Color.html) | [**getFocusColor**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#getFocusColor())() |
| protected  [Color](http://docs.google.com/java/awt/Color.html) | [**getSelectColor**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#getSelectColor())() |
| void | [**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) |
| protected  void | [**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 | [**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 | [**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 | [**paintText**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text)            As of Java 2 platform v 1.4 this method should not be used or overriden. |
| protected  void | [**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 | [**update**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#update(java.awt.Graphics,%20javax.swing.JComponent))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            If necessary paints the background of the component, then invokes paint. |

| **Methods inherited from class javax.swing.plaf.basic.**[**BasicToggleButtonUI**](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html) |
| --- |
| [getPropertyPrefix](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html#getPropertyPrefix()), [getTextShiftOffset](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html#getTextShiftOffset()), [paint](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)) |

| **Methods inherited from class javax.swing.plaf.basic.**[**BasicButtonUI**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html) |
| --- |
| [clearTextShiftOffset](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#clearTextShiftOffset()), [createButtonListener](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#createButtonListener(javax.swing.AbstractButton)), [getBaseline](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getBaseline(javax.swing.JComponent,%20int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getBaselineResizeBehavior(javax.swing.JComponent)), [getDefaultTextIconGap](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getDefaultTextIconGap(javax.swing.AbstractButton)), [getMaximumSize](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getMaximumSize(javax.swing.JComponent)), [getMinimumSize](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getMinimumSize(javax.swing.JComponent)), [getPreferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#getPreferredSize(javax.swing.JComponent)), [installKeyboardActions](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installKeyboardActions(javax.swing.AbstractButton)), [installListeners](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installListeners(javax.swing.AbstractButton)), [installUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installUI(javax.swing.JComponent)), [paintIcon](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle)), [paintText](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.lang.String)), [setTextShiftOffset](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#setTextShiftOffset()), [uninstallKeyboardActions](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallKeyboardActions(javax.swing.AbstractButton)), [uninstallListeners](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallListeners(javax.swing.AbstractButton)), [uninstallUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallUI(javax.swing.JComponent)) |

| **Methods inherited from class javax.swing.plaf.**[**ComponentUI**](http://docs.google.com/javax/swing/plaf/ComponentUI.html) |
| --- |
| [contains](http://docs.google.com/javax/swing/plaf/ComponentUI.html#contains(javax.swing.JComponent,%20int,%20int)), [getAccessibleChild](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getAccessibleChild(javax.swing.JComponent,%20int)), [getAccessibleChildrenCount](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getAccessibleChildrenCount(javax.swing.JComponent)) |

| **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()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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** |
| --- |

### focusColor

protected [Color](http://docs.google.com/java/awt/Color.html) **focusColor**

### selectColor

protected [Color](http://docs.google.com/java/awt/Color.html) **selectColor**

### disabledTextColor

protected [Color](http://docs.google.com/java/awt/Color.html) **disabledTextColor**

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

### MetalToggleButtonUI

public **MetalToggleButtonUI**()

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

### createUI

public static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **createUI**([JComponent](http://docs.google.com/javax/swing/JComponent.html) b)

### installDefaults

public void **installDefaults**([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)

**Overrides:**[installDefaults](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#installDefaults(javax.swing.AbstractButton)) in class [BasicButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html)

### uninstallDefaults

protected void **uninstallDefaults**([AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)

**Overrides:**[uninstallDefaults](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#uninstallDefaults(javax.swing.AbstractButton)) in class [BasicButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html)

### getSelectColor

protected [Color](http://docs.google.com/java/awt/Color.html) **getSelectColor**()

### getDisabledTextColor

protected [Color](http://docs.google.com/java/awt/Color.html) **getDisabledTextColor**()

### getFocusColor

protected [Color](http://docs.google.com/java/awt/Color.html) **getFocusColor**()

### update

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

If necessary paints the background of the component, then invokes paint.

**Overrides:**[update](http://docs.google.com/javax/swing/plaf/ComponentUI.html#update(java.awt.Graphics,%20javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**g - Graphics to paint toc - JComponent painting on **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if g or c is null**Since:** 1.5 **See Also:**[ComponentUI.update(java.awt.Graphics, javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#update(java.awt.Graphics,%20javax.swing.JComponent)), [ComponentUI.paint(java.awt.Graphics, javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent))

### paintButtonPressed

protected void **paintButtonPressed**([Graphics](http://docs.google.com/java/awt/Graphics.html) g,  
 [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b)

**Overrides:**[paintButtonPressed](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintButtonPressed(java.awt.Graphics,%20javax.swing.AbstractButton)) in class [BasicButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html)

### paintText

protected void **paintText**([Graphics](http://docs.google.com/java/awt/Graphics.html) g,  
 [JComponent](http://docs.google.com/javax/swing/JComponent.html) c,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect,  
 [String](http://docs.google.com/java/lang/String.html) text)

**Description copied from class:** [**BasicButtonUI**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle,%20java.lang.String)) As of Java 2 platform v 1.4 this method should not be used or overriden. Use the paintText method which takes the AbstractButton argument.

**Overrides:**[paintText](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle,%20java.lang.String)) in class [BasicButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html)

### paintFocus

protected void **paintFocus**([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)

**Overrides:**[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)) in class [BasicButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html)

### paintIcon

protected void **paintIcon**([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.

**Overrides:**[paintIcon](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle)) in class [BasicToggleButtonUI](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html) **Parameters:**g - Graphics to paint tob - Button to render foriconRect - space to render in **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if any of the arguments are null.**Since:** 1.5

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MetalToggleButtonUI.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/plaf/metal/MetalTheme.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/metal/MetalToolBarUI.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/metal/MetalToggleButtonUI.html)    [**NO FRAMES**](http://docs.google.com/MetalToggleButtonUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#1ksv4uv) | [METHOD](#2jxsxqh) |

[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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