| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MetalTreeUI.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/MetalToolTipUI.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/metal/OceanTheme.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/metal/MetalTreeUI.html)    [**NO FRAMES**](http://docs.google.com/MetalTreeUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

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

Class MetalTreeUI

[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.TreeUI](http://docs.google.com/javax/swing/plaf/TreeUI.html)  
 [javax.swing.plaf.basic.BasicTreeUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html)  
 **javax.swing.plaf.metal.MetalTreeUI**

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

The metal look and feel implementation of TreeUI.

MetalTreeUI allows for configuring how to visually render the spacing and delineation between nodes. The following hints are supported:

| Angled | A line is drawn connecting the child to the parent. For handling of the root node refer to [JTree.setRootVisible(boolean)](http://docs.google.com/javax/swing/JTree.html#setRootVisible(boolean)) and [JTree.setShowsRootHandles(boolean)](http://docs.google.com/javax/swing/JTree.html#setShowsRootHandles(boolean)). |
| --- | --- |
| Horizontal | A horizontal line is drawn dividing the children of the root node. |
| None | Do not draw any visual indication between nodes. |

As it is typically impratical to obtain the TreeUI from the JTree and cast to an instance of MetalTreeUI you enable this property via the client property JTree.lineStyle. For example, to switch to Horizontal style you would do: tree.putClientProperty("JTree.lineStyle", "Horizontal");

The default is Angled.

| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from class javax.swing.plaf.basic.**[**BasicTreeUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html) |
| --- |
| [BasicTreeUI.CellEditorHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.CellEditorHandler.html), [BasicTreeUI.ComponentHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.ComponentHandler.html), [BasicTreeUI.FocusHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.FocusHandler.html), [BasicTreeUI.KeyHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.KeyHandler.html), [BasicTreeUI.MouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.MouseHandler.html), [BasicTreeUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.MouseInputHandler.html), [BasicTreeUI.NodeDimensionsHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.NodeDimensionsHandler.html), [BasicTreeUI.PropertyChangeHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.PropertyChangeHandler.html), [BasicTreeUI.SelectionModelPropertyChangeHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.SelectionModelPropertyChangeHandler.html), [BasicTreeUI.TreeCancelEditingAction](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeCancelEditingAction.html), [BasicTreeUI.TreeExpansionHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeExpansionHandler.html), [BasicTreeUI.TreeHomeAction](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeHomeAction.html), [BasicTreeUI.TreeIncrementAction](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeIncrementAction.html), [BasicTreeUI.TreeModelHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeModelHandler.html), [BasicTreeUI.TreePageAction](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreePageAction.html), [BasicTreeUI.TreeSelectionHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeSelectionHandler.html), [BasicTreeUI.TreeToggleAction](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeToggleAction.html), [BasicTreeUI.TreeTraverseAction](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeTraverseAction.html) |

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class javax.swing.plaf.basic.**[**BasicTreeUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html) |
| --- |
| [cellEditor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#cellEditor), [collapsedIcon](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#collapsedIcon), [createdCellEditor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createdCellEditor), [createdRenderer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createdRenderer), [currentCellRenderer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#currentCellRenderer), [depthOffset](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#depthOffset), [drawingCache](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#drawingCache), [editingComponent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#editingComponent), [editingPath](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#editingPath), [editingRow](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#editingRow), [editorHasDifferentSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#editorHasDifferentSize), [expandedIcon](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#expandedIcon), [largeModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#largeModel), [lastSelectedRow](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#lastSelectedRow), [leftChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#leftChildIndent), [nodeDimensions](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#nodeDimensions), [preferredMinSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#preferredMinSize), [preferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#preferredSize), [rendererPane](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#rendererPane), [rightChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#rightChildIndent), [stopEditingInCompleteEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#stopEditingInCompleteEditing), [totalChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#totalChildIndent), [tree](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#tree), [treeModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#treeModel), [treeSelectionModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#treeSelectionModel), [treeState](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#treeState), [validCachedPreferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#validCachedPreferredSize) |

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

| **Method Summary** | |
| --- | --- |
| static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) | [**createUI**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#createUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) x) |
| protected  void | [**decodeLineStyle**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#decodeLineStyle(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) lineStyleFlag)            this function converts between the string passed into the client property and the internal representation (currently and int) |
| protected  int | [**getHorizontalLegBuffer**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#getHorizontalLegBuffer())()            The horizontal element of legs between nodes starts at the right of the left-hand side of the child node by default. |
| void | [**installUI**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#installUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            Configures the specified component appropriate for the look and feel. |
| protected  boolean | [**isLocationInExpandControl**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#isLocationInExpandControl(int,%20int,%20int,%20int))(int row, int rowLevel, int mouseX, int mouseY) |
| void | [**paint**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#paint(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)            Paints the specified component appropriate for the look and feel. |
| protected  void | [**paintHorizontalPartOfLeg**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#paintHorizontalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, int row, boolean isExpanded, boolean hasBeenExpanded, boolean isLeaf)            Paints the horizontal part of the leg. |
| protected  void | [**paintHorizontalSeparators**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#paintHorizontalSeparators(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) |
| protected  void | [**paintVerticalPartOfLeg**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#paintVerticalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20javax.swing.tree.TreePath))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path)            Paints the vertical part of the leg. |
| void | [**uninstallUI**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#uninstallUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            Reverses configuration which was done on the specified component during installUI. |

| **Methods inherited from class javax.swing.plaf.basic.**[**BasicTreeUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html) |
| --- |
| [cancelEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#cancelEditing(javax.swing.JTree)), [checkForClickInExpandControl](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#checkForClickInExpandControl(javax.swing.tree.TreePath,%20int,%20int)), [completeEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#completeEditing()), [completeEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#completeEditing(boolean,%20boolean,%20boolean)), [completeUIInstall](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#completeUIInstall()), [completeUIUninstall](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#completeUIUninstall()), [configureLayoutCache](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#configureLayoutCache()), [createCellEditorListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createCellEditorListener()), [createCellRendererPane](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createCellRendererPane()), [createComponentListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createComponentListener()), [createDefaultCellEditor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createDefaultCellEditor()), [createDefaultCellRenderer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createDefaultCellRenderer()), [createFocusListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createFocusListener()), [createKeyListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createKeyListener()), [createLayoutCache](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createLayoutCache()), [createMouseListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createMouseListener()), [createNodeDimensions](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createNodeDimensions()), [createPropertyChangeListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createPropertyChangeListener()), [createSelectionModelPropertyChangeListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createSelectionModelPropertyChangeListener()), [createTreeExpansionListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createTreeExpansionListener()), [createTreeModelListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createTreeModelListener()), [createTreeSelectionListener](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createTreeSelectionListener()), [drawCentered](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#drawCentered(java.awt.Component,%20java.awt.Graphics,%20javax.swing.Icon,%20int,%20int)), [drawDashedHorizontalLine](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#drawDashedHorizontalLine(java.awt.Graphics,%20int,%20int,%20int)), [drawDashedVerticalLine](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#drawDashedVerticalLine(java.awt.Graphics,%20int,%20int,%20int)), [ensureRowsAreVisible](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#ensureRowsAreVisible(int,%20int)), [getBaseline](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getBaseline(javax.swing.JComponent,%20int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getBaselineResizeBehavior(javax.swing.JComponent)), [getCellEditor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getCellEditor()), [getCellRenderer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getCellRenderer()), [getClosestPathForLocation](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getClosestPathForLocation(javax.swing.JTree,%20int,%20int)), [getCollapsedIcon](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getCollapsedIcon()), [getEditingPath](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getEditingPath(javax.swing.JTree)), [getExpandedIcon](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getExpandedIcon()), [getHashColor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getHashColor()), [getLastChildPath](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getLastChildPath(javax.swing.tree.TreePath)), [getLeftChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getLeftChildIndent()), [getMaximumSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getMaximumSize(javax.swing.JComponent)), [getMinimumSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getMinimumSize(javax.swing.JComponent)), [getModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getModel()), [getPathBounds](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getPathBounds(javax.swing.JTree,%20javax.swing.tree.TreePath)), [getPathForRow](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getPathForRow(javax.swing.JTree,%20int)), [getPreferredMinSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getPreferredMinSize()), [getPreferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getPreferredSize(javax.swing.JComponent)), [getPreferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getPreferredSize(javax.swing.JComponent,%20boolean)), [getRightChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getRightChildIndent()), [getRowCount](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getRowCount(javax.swing.JTree)), [getRowForPath](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getRowForPath(javax.swing.JTree,%20javax.swing.tree.TreePath)), [getRowHeight](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getRowHeight()), [getRowX](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getRowX(int,%20int)), [getSelectionModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getSelectionModel()), [getShowsRootHandles](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getShowsRootHandles()), [getVerticalLegBuffer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getVerticalLegBuffer()), [handleExpandControlClick](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#handleExpandControlClick(javax.swing.tree.TreePath,%20int,%20int)), [installComponents](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#installComponents()), [installDefaults](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#installDefaults()), [installKeyboardActions](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#installKeyboardActions()), [installListeners](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#installListeners()), [isEditable](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isEditable()), [isEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isEditing(javax.swing.JTree)), [isLargeModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isLargeModel()), [isLeaf](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isLeaf(int)), [isLocationInExpandControl](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isLocationInExpandControl(javax.swing.tree.TreePath,%20int,%20int)), [isMultiSelectEvent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isMultiSelectEvent(java.awt.event.MouseEvent)), [isRootVisible](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isRootVisible()), [isToggleEvent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isToggleEvent(java.awt.event.MouseEvent)), [isToggleSelectionEvent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#isToggleSelectionEvent(java.awt.event.MouseEvent)), [paintExpandControl](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintExpandControl(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean)), [paintHorizontalLine](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintHorizontalLine(java.awt.Graphics,%20javax.swing.JComponent,%20int,%20int,%20int)), [paintRow](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintRow(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean)), [paintVerticalLine](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintVerticalLine(java.awt.Graphics,%20javax.swing.JComponent,%20int,%20int,%20int)), [pathWasCollapsed](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#pathWasCollapsed(javax.swing.tree.TreePath)), [pathWasExpanded](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#pathWasExpanded(javax.swing.tree.TreePath)), [prepareForUIInstall](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#prepareForUIInstall()), [prepareForUIUninstall](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#prepareForUIUninstall()), [selectPathForEvent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#selectPathForEvent(javax.swing.tree.TreePath,%20java.awt.event.MouseEvent)), [setCellEditor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setCellEditor(javax.swing.tree.TreeCellEditor)), [setCellRenderer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setCellRenderer(javax.swing.tree.TreeCellRenderer)), [setCollapsedIcon](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setCollapsedIcon(javax.swing.Icon)), [setEditable](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setEditable(boolean)), [setExpandedIcon](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setExpandedIcon(javax.swing.Icon)), [setHashColor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setHashColor(java.awt.Color)), [setLargeModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setLargeModel(boolean)), [setLeftChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setLeftChildIndent(int)), [setModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setModel(javax.swing.tree.TreeModel)), [setPreferredMinSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setPreferredMinSize(java.awt.Dimension)), [setRightChildIndent](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setRightChildIndent(int)), [setRootVisible](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setRootVisible(boolean)), [setRowHeight](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setRowHeight(int)), [setSelectionModel](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setSelectionModel(javax.swing.tree.TreeSelectionModel)), [setShowsRootHandles](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#setShowsRootHandles(boolean)), [shouldPaintExpandControl](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#shouldPaintExpandControl(javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean)), [startEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#startEditing(javax.swing.tree.TreePath,%20java.awt.event.MouseEvent)), [startEditingAtPath](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#startEditingAtPath(javax.swing.JTree,%20javax.swing.tree.TreePath)), [stopEditing](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#stopEditing(javax.swing.JTree)), [toggleExpandState](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#toggleExpandState(javax.swing.tree.TreePath)), [uninstallComponents](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#uninstallComponents()), [uninstallDefaults](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#uninstallDefaults()), [uninstallKeyboardActions](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#uninstallKeyboardActions()), [uninstallListeners](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#uninstallListeners()), [updateCachedPreferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateCachedPreferredSize()), [updateCellEditor](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateCellEditor()), [updateDepthOffset](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateDepthOffset()), [updateExpandedDescendants](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateExpandedDescendants(javax.swing.tree.TreePath)), [updateLayoutCacheExpandedNodes](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateLayoutCacheExpandedNodes()), [updateRenderer](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateRenderer()), [updateSize](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#updateSize()) |

| **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)), [update](http://docs.google.com/javax/swing/plaf/ComponentUI.html#update(java.awt.Graphics,%20javax.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)) |

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

### MetalTreeUI

public **MetalTreeUI**()

| **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) x)

### getHorizontalLegBuffer

protected int **getHorizontalLegBuffer**()

**Description copied from class:** [**BasicTreeUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getHorizontalLegBuffer()) The horizontal element of legs between nodes starts at the right of the left-hand side of the child node by default. This method makes the leg end before that.

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

### installUI

public void **installUI**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)

**Description copied from class:** [**ComponentUI**](http://docs.google.com/javax/swing/plaf/ComponentUI.html#installUI(javax.swing.JComponent)) Configures the specified component appropriate for the look and feel. This method is invoked when the ComponentUI instance is being installed as the UI delegate on the specified component. This method should completely configure the component for the look and feel, including the following:

1. Install any default property values for color, fonts, borders, icons, opacity, etc. on the component. Whenever possible, property values initialized by the client program should *not* be overridden.
2. Install a LayoutManager on the component if necessary.
3. Create/add any required sub-components to the component.
4. Create/install event listeners on the component.
5. Create/install a PropertyChangeListener on the component in order to detect and respond to component property changes appropriately.
6. Install keyboard UI (mnemonics, traversal, etc.) on the component.
7. Initialize any appropriate instance data.

**Overrides:**[installUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#installUI(javax.swing.JComponent)) in class [BasicTreeUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html) **Parameters:**c - the component where this UI delegate is being installed**See Also:**[ComponentUI.uninstallUI(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#uninstallUI(javax.swing.JComponent)), [JComponent.setUI(javax.swing.plaf.ComponentUI)](http://docs.google.com/javax/swing/JComponent.html#setUI(javax.swing.plaf.ComponentUI)), [JComponent.updateUI()](http://docs.google.com/javax/swing/JComponent.html#updateUI())

### uninstallUI

public void **uninstallUI**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)

**Description copied from class:** [**ComponentUI**](http://docs.google.com/javax/swing/plaf/ComponentUI.html#uninstallUI(javax.swing.JComponent)) Reverses configuration which was done on the specified component during installUI. This method is invoked when this UIComponent instance is being removed as the UI delegate for the specified component. This method should undo the configuration performed in installUI, being careful to leave the JComponent instance in a clean state (no extraneous listeners, look-and-feel-specific property objects, etc.). This should include the following:

1. Remove any UI-set borders from the component.
2. Remove any UI-set layout managers on the component.
3. Remove any UI-added sub-components from the component.
4. Remove any UI-added event/property listeners from the component.
5. Remove any UI-installed keyboard UI from the component.
6. Nullify any allocated instance data objects to allow for GC.

**Overrides:**[uninstallUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#uninstallUI(javax.swing.JComponent)) in class [BasicTreeUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html) **Parameters:**c - the component from which this UI delegate is being removed; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components**See Also:**[ComponentUI.installUI(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#installUI(javax.swing.JComponent)), [JComponent.updateUI()](http://docs.google.com/javax/swing/JComponent.html#updateUI())

### decodeLineStyle

protected void **decodeLineStyle**([Object](http://docs.google.com/java/lang/Object.html) lineStyleFlag)

this function converts between the string passed into the client property and the internal representation (currently and int)

### isLocationInExpandControl

protected boolean **isLocationInExpandControl**(int row,  
 int rowLevel,  
 int mouseX,  
 int mouseY)

### paint

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

**Description copied from class:** [**ComponentUI**](http://docs.google.com/javax/swing/plaf/ComponentUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)) Paints the specified component appropriate for the look and feel. This method is invoked from the ComponentUI.update method when the specified component is being painted. Subclasses should override this method and use the specified Graphics object to render the content of the component.

**Overrides:**[paint](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)) in class [BasicTreeUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html) **Parameters:**g - the Graphics context in which to paintc - the component being painted; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components**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))

### paintHorizontalSeparators

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

### paintVerticalPartOfLeg

protected void **paintVerticalPartOfLeg**([Graphics](http://docs.google.com/java/awt/Graphics.html) g,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds,  
 [Insets](http://docs.google.com/java/awt/Insets.html) insets,  
 [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path)

**Description copied from class:** [**BasicTreeUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintVerticalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20javax.swing.tree.TreePath)) Paints the vertical part of the leg. The receiver should NOT modify clipBounds, insets.

**Overrides:**[paintVerticalPartOfLeg](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintVerticalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20javax.swing.tree.TreePath)) in class [BasicTreeUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html)

### paintHorizontalPartOfLeg

protected void **paintHorizontalPartOfLeg**([Graphics](http://docs.google.com/java/awt/Graphics.html) g,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds,  
 [Insets](http://docs.google.com/java/awt/Insets.html) insets,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds,  
 [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path,  
 int row,  
 boolean isExpanded,  
 boolean hasBeenExpanded,  
 boolean isLeaf)

**Description copied from class:** [**BasicTreeUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintHorizontalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean)) Paints the horizontal part of the leg. The receiver should NOT modify clipBounds, or insets.

NOTE: parentRow can be -1 if the root is not visible.

**Overrides:**[paintHorizontalPartOfLeg](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintHorizontalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean)) in class [BasicTreeUI](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MetalTreeUI.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/MetalToolTipUI.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/metal/OceanTheme.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/metal/MetalTreeUI.html)    [**NO FRAMES**](http://docs.google.com/MetalTreeUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

[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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