| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BasicTableUI.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/basic/BasicTableHeaderUI.MouseInputHandler.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.FocusHandler.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/basic/BasicTableUI.html)    [**NO FRAMES**](http://docs.google.com/BasicTableUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#1ksv4uv) | [METHOD](#2jxsxqh) |

## **javax.swing.plaf.basic**

Class BasicTableUI

[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.TableUI](http://docs.google.com/javax/swing/plaf/TableUI.html)  
 **javax.swing.plaf.basic.BasicTableUI**

public class **BasicTableUI**extends [TableUI](http://docs.google.com/javax/swing/plaf/TableUI.html)

BasicTableUI implementation

| **Nested Class Summary** | |
| --- | --- |
| class | [**BasicTableUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.FocusHandler.html)            This inner class is marked "public" due to a compiler bug. |
| class | [**BasicTableUI.KeyHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.KeyHandler.html)            This inner class is marked "public" due to a compiler bug. |
| class | [**BasicTableUI.MouseInputHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.MouseInputHandler.html)            This inner class is marked "public" due to a compiler bug. |

| **Field Summary** | |
| --- | --- |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | [**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#focusListener) |
| protected  [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html) | [**keyListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#keyListener) |
| protected  [MouseInputListener](http://docs.google.com/javax/swing/event/MouseInputListener.html) | [**mouseInputListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#mouseInputListener) |
| protected  [CellRendererPane](http://docs.google.com/javax/swing/CellRendererPane.html) | [**rendererPane**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#rendererPane) |
| protected  [JTable](http://docs.google.com/javax/swing/JTable.html) | [**table**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#table) |

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

| **Method Summary** | |
| --- | --- |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | [**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#createFocusListener())()            Creates the focus listener for handling keyboard navigation in the JTable. |
| protected  [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html) | [**createKeyListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#createKeyListener())()            Creates the key listener for handling keyboard navigation in the JTable. |
| protected  [MouseInputListener](http://docs.google.com/javax/swing/event/MouseInputListener.html) | [**createMouseInputListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#createMouseInputListener())()            Creates the mouse listener for the JTable. |
| static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) | [**createUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#createUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c) |
| int | [**getBaseline**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#getBaseline(javax.swing.JComponent,%20int,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c, int width, int height)            Returns the baseline. |
| [Component.BaselineResizeBehavior](http://docs.google.com/java/awt/Component.BaselineResizeBehavior.html) | [**getBaselineResizeBehavior**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#getBaselineResizeBehavior(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            Returns an enum indicating how the baseline of the component changes as the size changes. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getMaximumSize**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#getMaximumSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            Return the maximum size of the table. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getMinimumSize**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#getMinimumSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            Return the minimum size of the table. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getPreferredSize**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#getPreferredSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            Return the preferred size of the table. |
| protected  void | [**installDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#installDefaults())()            Initialize JTable properties, e.g. |
| protected  void | [**installKeyboardActions**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#installKeyboardActions())()            Register all keyboard actions on the JTable. |
| protected  void | [**installListeners**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#installListeners())()            Attaches listeners to the JTable. |
| void | [**installUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.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. |
| void | [**paint**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.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)            Paint a representation of the table instance that was set in installUI(). |
| protected  void | [**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#uninstallDefaults())() |
| protected  void | [**uninstallKeyboardActions**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#uninstallKeyboardActions())() |
| protected  void | [**uninstallListeners**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#uninstallListeners())() |
| void | [**uninstallUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.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.**[**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)) |

| **Field Detail** |
| --- |

### table

protected [JTable](http://docs.google.com/javax/swing/JTable.html) **table**

### rendererPane

protected [CellRendererPane](http://docs.google.com/javax/swing/CellRendererPane.html) **rendererPane**

### keyListener

protected [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html) **keyListener**

### focusListener

protected [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) **focusListener**

### mouseInputListener

protected [MouseInputListener](http://docs.google.com/javax/swing/event/MouseInputListener.html) **mouseInputListener**

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

### BasicTableUI

public **BasicTableUI**()

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

### createKeyListener

protected [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html) **createKeyListener**()

Creates the key listener for handling keyboard navigation in the JTable.

### createFocusListener

protected [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) **createFocusListener**()

Creates the focus listener for handling keyboard navigation in the JTable.

### createMouseInputListener

protected [MouseInputListener](http://docs.google.com/javax/swing/event/MouseInputListener.html) **createMouseInputListener**()

Creates the mouse listener for the JTable.

### createUI

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

### 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/ComponentUI.html#installUI(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.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())

### installDefaults

protected void **installDefaults**()

Initialize JTable properties, e.g. font, foreground, and background. The font, foreground, and background properties are only set if their current value is either null or a UIResource, other properties are set if the current value is null.

**See Also:**[installUI(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#installUI(javax.swing.JComponent))

### installListeners

protected void **installListeners**()

Attaches listeners to the JTable.

### installKeyboardActions

protected void **installKeyboardActions**()

Register all keyboard actions on the JTable.

### 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/ComponentUI.html#uninstallUI(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.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())

### uninstallDefaults

protected void **uninstallDefaults**()

### uninstallListeners

protected void **uninstallListeners**()

### uninstallKeyboardActions

protected void **uninstallKeyboardActions**()

### getBaseline

public int **getBaseline**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c,  
 int width,  
 int height)

Returns the baseline.

**Overrides:**[getBaseline](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getBaseline(javax.swing.JComponent,%20int,%20int)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**c - JComponent baseline is being requested forwidth - the width to get the baseline forheight - the height to get the baseline for **Returns:**baseline or a value < 0 indicating there is no reasonable baseline **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if c is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if width or height is < 0**Since:** 1.6 **See Also:**[JComponent.getBaseline(int, int)](http://docs.google.com/javax/swing/JComponent.html#getBaseline(int,%20int))

### getBaselineResizeBehavior

public [Component.BaselineResizeBehavior](http://docs.google.com/java/awt/Component.BaselineResizeBehavior.html) **getBaselineResizeBehavior**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)

Returns an enum indicating how the baseline of the component changes as the size changes.

**Overrides:**[getBaselineResizeBehavior](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getBaselineResizeBehavior(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**c - JComponent to return baseline resize behavior for **Returns:**an enum indicating how the baseline changes as the component size changes **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if c is null**Since:** 1.6 **See Also:**[JComponent.getBaseline(int, int)](http://docs.google.com/javax/swing/JComponent.html#getBaseline(int,%20int))

### getMinimumSize

public [Dimension](http://docs.google.com/java/awt/Dimension.html) **getMinimumSize**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)

Return the minimum size of the table. The minimum height is the row height times the number of rows. The minimum width is the sum of the minimum widths of each column.

**Overrides:**[getMinimumSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getMinimumSize(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**c - the component whose minimum size is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components **Returns:**a Dimension object or null**See Also:**[JComponent.getMinimumSize()](http://docs.google.com/javax/swing/JComponent.html#getMinimumSize()), [LayoutManager.minimumLayoutSize(java.awt.Container)](http://docs.google.com/java/awt/LayoutManager.html#minimumLayoutSize(java.awt.Container)), [ComponentUI.getPreferredSize(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getPreferredSize(javax.swing.JComponent))

### getPreferredSize

public [Dimension](http://docs.google.com/java/awt/Dimension.html) **getPreferredSize**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)

Return the preferred size of the table. The preferred height is the row height times the number of rows. The preferred width is the sum of the preferred widths of each column.

**Overrides:**[getPreferredSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getPreferredSize(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**c - the component whose preferred size is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components**See Also:**[JComponent.getPreferredSize()](http://docs.google.com/javax/swing/JComponent.html#getPreferredSize()), [LayoutManager.preferredLayoutSize(java.awt.Container)](http://docs.google.com/java/awt/LayoutManager.html#preferredLayoutSize(java.awt.Container))

### getMaximumSize

public [Dimension](http://docs.google.com/java/awt/Dimension.html) **getMaximumSize**([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)

Return the maximum size of the table. The maximum height is the row heighttimes the number of rows. The maximum width is the sum of the maximum widths of each column.

**Overrides:**[getMaximumSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getMaximumSize(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**c - the component whose maximum size is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components **Returns:**a Dimension object or null**See Also:**[JComponent.getMaximumSize()](http://docs.google.com/javax/swing/JComponent.html#getMaximumSize()), [LayoutManager2.maximumLayoutSize(java.awt.Container)](http://docs.google.com/java/awt/LayoutManager2.html#maximumLayoutSize(java.awt.Container))

### paint

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

Paint a representation of the table instance that was set in installUI().

**Overrides:**[paint](http://docs.google.com/javax/swing/plaf/ComponentUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.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))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BasicTableUI.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/basic/BasicTableHeaderUI.MouseInputHandler.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.FocusHandler.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/basic/BasicTableUI.html)    [**NO FRAMES**](http://docs.google.com/BasicTableUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [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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