| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TextUI.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/TableUI.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/ToolBarUI.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/TextUI.html)    [**NO FRAMES**](http://docs.google.com/TextUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **javax.swing.plaf**

Class TextUI

[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.TextUI**

**Direct Known Subclasses:** [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html), [MultiTextUI](http://docs.google.com/javax/swing/plaf/multi/MultiTextUI.html)

public abstract class **TextUI**extends [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html)

Text editor user interface

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

| **Method Summary** | |
| --- | --- |
| abstract  void | [**damageRange**](http://docs.google.com/javax/swing/plaf/TextUI.html#damageRange(javax.swing.text.JTextComponent,%20int,%20int))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int p0, int p1)            Causes the portion of the view responsible for the given part of the model to be repainted. |
| abstract  void | [**damageRange**](http://docs.google.com/javax/swing/plaf/TextUI.html#damageRange(javax.swing.text.JTextComponent,%20int,%20int,%20javax.swing.text.Position.Bias,%20javax.swing.text.Position.Bias))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int p0, int p1, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) firstBias, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) secondBias)            Causes the portion of the view responsible for the given part of the model to be repainted. |
| abstract  [EditorKit](http://docs.google.com/javax/swing/text/EditorKit.html) | [**getEditorKit**](http://docs.google.com/javax/swing/plaf/TextUI.html#getEditorKit(javax.swing.text.JTextComponent))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t)            Fetches the binding of services that set a policy for the type of document being edited. |
| abstract  int | [**getNextVisualPositionFrom**](http://docs.google.com/javax/swing/plaf/TextUI.html#getNextVisualPositionFrom(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias,%20int,%20javax.swing.text.Position.Bias%5B%5D))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int pos, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) b, int direction, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html)[] biasRet)            Provides a way to determine the next visually represented model location that one might place a caret. |
| abstract  [View](http://docs.google.com/javax/swing/text/View.html) | [**getRootView**](http://docs.google.com/javax/swing/plaf/TextUI.html#getRootView(javax.swing.text.JTextComponent))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t)            Fetches a View with the allocation of the associated text component (i.e. |
| [String](http://docs.google.com/java/lang/String.html) | [**getToolTipText**](http://docs.google.com/javax/swing/plaf/TextUI.html#getToolTipText(javax.swing.text.JTextComponent,%20java.awt.Point))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, [Point](http://docs.google.com/java/awt/Point.html) pt)            Returns the string to be used as the tooltip at the passed in location. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | [**modelToView**](http://docs.google.com/javax/swing/plaf/TextUI.html#modelToView(javax.swing.text.JTextComponent,%20int))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int pos)            Converts the given location in the model to a place in the view coordinate system. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | [**modelToView**](http://docs.google.com/javax/swing/plaf/TextUI.html#modelToView(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int pos, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) bias)            Converts the given location in the model to a place in the view coordinate system. |
| abstract  int | [**viewToModel**](http://docs.google.com/javax/swing/plaf/TextUI.html#viewToModel(javax.swing.text.JTextComponent,%20java.awt.Point))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, [Point](http://docs.google.com/java/awt/Point.html) pt)            Converts the given place in the view coordinate system to the nearest representative location in the model. |
| abstract  int | [**viewToModel**](http://docs.google.com/javax/swing/plaf/TextUI.html#viewToModel(javax.swing.text.JTextComponent,%20java.awt.Point,%20javax.swing.text.Position.Bias%5B%5D))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, [Point](http://docs.google.com/java/awt/Point.html) pt, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html)[] biasReturn)            Provides a mapping from the view coordinate space to the logical coordinate space of the model. |

| **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)), [createUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html#createUI(javax.swing.JComponent)), [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)), [getBaseline](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getBaseline(javax.swing.JComponent,%20int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getBaselineResizeBehavior(javax.swing.JComponent)), [getMaximumSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getMaximumSize(javax.swing.JComponent)), [getMinimumSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getMinimumSize(javax.swing.JComponent)), [getPreferredSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getPreferredSize(javax.swing.JComponent)), [installUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html#installUI(javax.swing.JComponent)), [paint](http://docs.google.com/javax/swing/plaf/ComponentUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)), [uninstallUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html#uninstallUI(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** |
| --- |

### TextUI

public **TextUI**()

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

### modelToView

public abstract [Rectangle](http://docs.google.com/java/awt/Rectangle.html) **modelToView**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 int pos)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Converts the given location in the model to a place in the view coordinate system.

**Parameters:**pos - the local location in the model to translate >= 0 **Returns:**the coordinates as a rectangle **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the given position does not represent a valid location in the associated document

### modelToView

public abstract [Rectangle](http://docs.google.com/java/awt/Rectangle.html) **modelToView**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 int pos,  
 [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) bias)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Converts the given location in the model to a place in the view coordinate system.

**Parameters:**pos - the local location in the model to translate >= 0 **Returns:**the coordinates as a rectangle **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the given position does not represent a valid location in the associated document

### viewToModel

public abstract int **viewToModel**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 [Point](http://docs.google.com/java/awt/Point.html) pt)

Converts the given place in the view coordinate system to the nearest representative location in the model.

**Parameters:**pt - the location in the view to translate. This should be in the same coordinate system as the mouse events. **Returns:**the offset from the start of the document >= 0

### viewToModel

public abstract int **viewToModel**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 [Point](http://docs.google.com/java/awt/Point.html) pt,  
 [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html)[] biasReturn)

Provides a mapping from the view coordinate space to the logical coordinate space of the model.

**Parameters:**pt - the location in the view to translate. This should be in the same coordinate system as the mouse events.biasReturn - filled in by this method to indicate whether the point given is closer to the previous or the next character in the model **Returns:**the location within the model that best represents the given point in the view >= 0

### getNextVisualPositionFrom

public abstract int **getNextVisualPositionFrom**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 int pos,  
 [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) b,  
 int direction,  
 [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html)[] biasRet)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Provides a way to determine the next visually represented model location that one might place a caret. Some views may not be visible, they might not be in the same order found in the model, or they just might not allow access to some of the locations in the model.

**Parameters:**t - the text component for which this UI is installedpos - the position to convert >= 0b - the bias for the positiondirection - the direction from the current position that can be thought of as the arrow keys typically found on a keyboard. This may be SwingConstants.WEST, SwingConstants.EAST, SwingConstants.NORTH, or SwingConstants.SOUTHbiasRet - an array to contain the bias for the returned position **Returns:**the location within the model that best represents the next location visual position **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - for an invalid direction

### damageRange

public abstract void **damageRange**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 int p0,  
 int p1)

Causes the portion of the view responsible for the given part of the model to be repainted.

**Parameters:**p0 - the beginning of the range >= 0p1 - the end of the range >= p0

### damageRange

public abstract void **damageRange**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 int p0,  
 int p1,  
 [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) firstBias,  
 [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) secondBias)

Causes the portion of the view responsible for the given part of the model to be repainted.

**Parameters:**p0 - the beginning of the range >= 0p1 - the end of the range >= p0

### getEditorKit

public abstract [EditorKit](http://docs.google.com/javax/swing/text/EditorKit.html) **getEditorKit**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t)

Fetches the binding of services that set a policy for the type of document being edited. This contains things like the commands available, stream readers and writers, etc.

**Returns:**the editor kit binding

### getRootView

public abstract [View](http://docs.google.com/javax/swing/text/View.html) **getRootView**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t)

Fetches a View with the allocation of the associated text component (i.e. the root of the hierarchy) that can be traversed to determine how the model is being represented spatially.

**Returns:**the view

### getToolTipText

public [String](http://docs.google.com/java/lang/String.html) **getToolTipText**([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t,  
 [Point](http://docs.google.com/java/awt/Point.html) pt)

Returns the string to be used as the tooltip at the passed in location.

**Since:** 1.4 **See Also:**[JTextComponent.getToolTipText(java.awt.event.MouseEvent)](http://docs.google.com/javax/swing/text/JTextComponent.html#getToolTipText(java.awt.event.MouseEvent))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TextUI.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/TableUI.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/ToolBarUI.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/TextUI.html)    [**NO FRAMES**](http://docs.google.com/TextUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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