| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BasicTextAreaUI.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/BasicTableUI.MouseInputHandler.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/basic/BasicTextFieldUI.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/basic/BasicTextAreaUI.html)    [**NO FRAMES**](http://docs.google.com/BasicTextAreaUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | FIELD | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

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

Class BasicTextAreaUI

[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](http://docs.google.com/javax/swing/plaf/TextUI.html)  
 [javax.swing.plaf.basic.BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html)  
 **javax.swing.plaf.basic.BasicTextAreaUI**

**All Implemented Interfaces:** [ViewFactory](http://docs.google.com/javax/swing/text/ViewFactory.html)

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

Provides the look and feel for a plain text editor. In this implementation the default UI is extended to act as a simple view factory.

**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).

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

| **Nested classes/interfaces inherited from class javax.swing.plaf.basic.**[**BasicTextUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) |
| --- |
| [BasicTextUI.BasicCaret](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.BasicCaret.html), [BasicTextUI.BasicHighlighter](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.BasicHighlighter.html) |

| **Constructor Summary** | |
| --- | --- |
| [**BasicTextAreaUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#BasicTextAreaUI())()            Constructs a new BasicTextAreaUI object. |

| **Method Summary** | |
| --- | --- |
| [View](http://docs.google.com/javax/swing/text/View.html) | [**create**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#create(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Creates the view for an element. |
| static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) | [**createUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#createUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) ta)            Creates a UI for a JTextArea. |
| int | [**getBaseline**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.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/BasicTextAreaUI.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) | [**getMinimumSize**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#getMinimumSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            The method is overridden to take into account caret width. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getPreferredSize**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#getPreferredSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c)            The method is overridden to take into account caret width. |
| protected  [String](http://docs.google.com/java/lang/String.html) | [**getPropertyPrefix**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#getPropertyPrefix())()            Fetches the name used as a key to look up properties through the UIManager. |
| protected  void | [**installDefaults**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#installDefaults())()            Initializes component properties, e.g. |
| protected  void | [**propertyChange**](http://docs.google.com/javax/swing/plaf/basic/BasicTextAreaUI.html#propertyChange(java.beans.PropertyChangeEvent))([PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html) evt)            This method gets called when a bound property is changed on the associated JTextComponent. |

| **Methods inherited from class javax.swing.plaf.basic.**[**BasicTextUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) |
| --- |
| [create](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#create(javax.swing.text.Element,%20int,%20int)), [createCaret](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#createCaret()), [createHighlighter](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#createHighlighter()), [createKeymap](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#createKeymap()), [damageRange](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#damageRange(javax.swing.text.JTextComponent,%20int,%20int)), [damageRange](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#damageRange(javax.swing.text.JTextComponent,%20int,%20int,%20javax.swing.text.Position.Bias,%20javax.swing.text.Position.Bias)), [getComponent](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getComponent()), [getEditorKit](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getEditorKit(javax.swing.text.JTextComponent)), [getKeymapName](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getKeymapName()), [getMaximumSize](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getMaximumSize(javax.swing.JComponent)), [getNextVisualPositionFrom](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getNextVisualPositionFrom(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias,%20int,%20javax.swing.text.Position.Bias%5B%5D)), [getRootView](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getRootView(javax.swing.text.JTextComponent)), [getToolTipText](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getToolTipText(javax.swing.text.JTextComponent,%20java.awt.Point)), [getVisibleEditorRect](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getVisibleEditorRect()), [installKeyboardActions](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#installKeyboardActions()), [installListeners](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#installListeners()), [installUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#installUI(javax.swing.JComponent)), [modelChanged](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#modelChanged()), [modelToView](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#modelToView(javax.swing.text.JTextComponent,%20int)), [modelToView](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#modelToView(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias)), [paint](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)), [paintBackground](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#paintBackground(java.awt.Graphics)), [paintSafely](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#paintSafely(java.awt.Graphics)), [setView](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#setView(javax.swing.text.View)), [uninstallDefaults](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#uninstallDefaults()), [uninstallKeyboardActions](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#uninstallKeyboardActions()), [uninstallListeners](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#uninstallListeners()), [uninstallUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#uninstallUI(javax.swing.JComponent)), [update](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#update(java.awt.Graphics,%20javax.swing.JComponent)), [viewToModel](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#viewToModel(javax.swing.text.JTextComponent,%20java.awt.Point)), [viewToModel](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#viewToModel(javax.swing.text.JTextComponent,%20java.awt.Point,%20javax.swing.text.Position.Bias%5B%5D)) |

| **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)) |

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

### BasicTextAreaUI

public **BasicTextAreaUI**()

Constructs a new BasicTextAreaUI object.

| **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) ta)

Creates a UI for a JTextArea.

**Parameters:**ta - a text area **Returns:**the UI

### getPropertyPrefix

protected [String](http://docs.google.com/java/lang/String.html) **getPropertyPrefix**()

Fetches the name used as a key to look up properties through the UIManager. This is used as a prefix to all the standard text properties.

**Specified by:**[getPropertyPrefix](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getPropertyPrefix()) in class [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) **Returns:**the name ("TextArea")

### installDefaults

protected void **installDefaults**()

**Description copied from class:** [**BasicTextUI**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#installDefaults()) Initializes component properties, e.g. font, foreground, background, caret color, selection color, selected text color, disabled text color, and border color. 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.

**Overrides:**[installDefaults](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#installDefaults()) in class [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) **See Also:**[BasicTextUI.uninstallDefaults()](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#uninstallDefaults()), [BasicTextUI.installUI(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#installUI(javax.swing.JComponent))

### propertyChange

protected void **propertyChange**([PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html) evt)

This method gets called when a bound property is changed on the associated JTextComponent. This is a hook which UI implementations may change to reflect how the UI displays bound properties of JTextComponent subclasses. This is implemented to rebuild the View when the *WrapLine* or the *WrapStyleWord* property changes.

**Overrides:**[propertyChange](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#propertyChange(java.beans.PropertyChangeEvent)) in class [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) **Parameters:**evt - the property change event

### getPreferredSize

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

The method is overridden to take into account caret width.

**Overrides:**[getPreferredSize](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getPreferredSize(javax.swing.JComponent)) in class [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) **Parameters:**c - the editor component **Returns:**the preferred size **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if invalid value is passed**Since:** 1.5 **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))

### getMinimumSize

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

The method is overridden to take into account caret width.

**Overrides:**[getMinimumSize](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getMinimumSize(javax.swing.JComponent)) in class [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) **Parameters:**c - the editor component **Returns:**the minimum size **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if invalid value is passed**Since:** 1.5 **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))

### create

public [View](http://docs.google.com/javax/swing/text/View.html) **create**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)

Creates the view for an element. Returns a WrappedPlainView or PlainView.

**Specified by:**[create](http://docs.google.com/javax/swing/text/ViewFactory.html#create(javax.swing.text.Element)) in interface [ViewFactory](http://docs.google.com/javax/swing/text/ViewFactory.html)**Overrides:**[create](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#create(javax.swing.text.Element)) in class [BasicTextUI](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html) **Parameters:**elem - the element **Returns:**the view**See Also:**[View](http://docs.google.com/javax/swing/text/View.html)

### 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))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BasicTextAreaUI.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/BasicTableUI.MouseInputHandler.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/basic/BasicTextFieldUI.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/basic/BasicTextAreaUI.html)    [**NO FRAMES**](http://docs.google.com/BasicTextAreaUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | FIELD | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

[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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