| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TextComponent.AccessibleAWTTextComponent.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/java/awt/TextComponent.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/TextField.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/TextComponent.AccessibleAWTTextComponent.html)    [**NO FRAMES**](http://docs.google.com/TextComponent.AccessibleAWTTextComponent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#2s8eyo1) | [METHOD](#17dp8vu) | DETAIL: FIELD | [CONSTR](#35nkun2) | [METHOD](#44sinio) |

## **java.awt**

Class TextComponent.AccessibleAWTTextComponent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.accessibility.AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html)  
 [java.awt.Component.AccessibleAWTComponent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html)  
 **java.awt.TextComponent.AccessibleAWTTextComponent**

**All Implemented Interfaces:** [TextListener](http://docs.google.com/java/awt/event/TextListener.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [EventListener](http://docs.google.com/java/util/EventListener.html), [AccessibleComponent](http://docs.google.com/javax/accessibility/AccessibleComponent.html), [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Direct Known Subclasses:** [TextArea.AccessibleAWTTextArea](http://docs.google.com/java/awt/TextArea.AccessibleAWTTextArea.html), [TextField.AccessibleAWTTextField](http://docs.google.com/java/awt/TextField.AccessibleAWTTextField.html) **Enclosing class:**[TextComponent](http://docs.google.com/java/awt/TextComponent.html)

protected class **TextComponent.AccessibleAWTTextComponent**extends [Component.AccessibleAWTComponent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html)implements [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html), [TextListener](http://docs.google.com/java/awt/event/TextListener.html)

This class implements accessibility support for the TextComponent class. It provides an implementation of the Java Accessibility API appropriate to text component user-interface elements.

**Since:** 1.3 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.TextComponent.AccessibleAWTTextComponent)

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

| **Nested classes/interfaces inherited from class java.awt.**[**Component.AccessibleAWTComponent**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html) |
| --- |
| [Component.AccessibleAWTComponent.AccessibleAWTComponentHandler](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.AccessibleAWTComponentHandler.html), [Component.AccessibleAWTComponent.AccessibleAWTFocusHandler](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.AccessibleAWTFocusHandler.html) |

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

| **Fields inherited from class java.awt.**[**Component.AccessibleAWTComponent**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html) |
| --- |
| [accessibleAWTComponentHandler](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#accessibleAWTComponentHandler), [accessibleAWTFocusHandler](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#accessibleAWTFocusHandler) |

| **Fields inherited from class javax.accessibility.**[**AccessibleContext**](http://docs.google.com/javax/accessibility/AccessibleContext.html) |
| --- |
| [ACCESSIBLE\_ACTION\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_ACTION_PROPERTY), [ACCESSIBLE\_ACTIVE\_DESCENDANT\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_ACTIVE_DESCENDANT_PROPERTY), [ACCESSIBLE\_CARET\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_CARET_PROPERTY), [ACCESSIBLE\_CHILD\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_CHILD_PROPERTY), [ACCESSIBLE\_COMPONENT\_BOUNDS\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_COMPONENT_BOUNDS_CHANGED), [ACCESSIBLE\_DESCRIPTION\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_DESCRIPTION_PROPERTY), [ACCESSIBLE\_HYPERTEXT\_OFFSET](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_HYPERTEXT_OFFSET), [ACCESSIBLE\_INVALIDATE\_CHILDREN](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_INVALIDATE_CHILDREN), [ACCESSIBLE\_NAME\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_NAME_PROPERTY), [ACCESSIBLE\_SELECTION\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_SELECTION_PROPERTY), [ACCESSIBLE\_STATE\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_STATE_PROPERTY), [ACCESSIBLE\_TABLE\_CAPTION\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_CAPTION_CHANGED), [ACCESSIBLE\_TABLE\_COLUMN\_DESCRIPTION\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_COLUMN_DESCRIPTION_CHANGED), [ACCESSIBLE\_TABLE\_COLUMN\_HEADER\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_COLUMN_HEADER_CHANGED), [ACCESSIBLE\_TABLE\_MODEL\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_MODEL_CHANGED), [ACCESSIBLE\_TABLE\_ROW\_DESCRIPTION\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_ROW_DESCRIPTION_CHANGED), [ACCESSIBLE\_TABLE\_ROW\_HEADER\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_ROW_HEADER_CHANGED), [ACCESSIBLE\_TABLE\_SUMMARY\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TABLE_SUMMARY_CHANGED), [ACCESSIBLE\_TEXT\_ATTRIBUTES\_CHANGED](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TEXT_ATTRIBUTES_CHANGED), [ACCESSIBLE\_TEXT\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_TEXT_PROPERTY), [ACCESSIBLE\_VALUE\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_VALUE_PROPERTY), [ACCESSIBLE\_VISIBLE\_DATA\_PROPERTY](http://docs.google.com/javax/accessibility/AccessibleContext.html#ACCESSIBLE_VISIBLE_DATA_PROPERTY), [accessibleDescription](http://docs.google.com/javax/accessibility/AccessibleContext.html#accessibleDescription), [accessibleName](http://docs.google.com/javax/accessibility/AccessibleContext.html#accessibleName), [accessibleParent](http://docs.google.com/javax/accessibility/AccessibleContext.html#accessibleParent) |

| **Fields inherited from interface javax.accessibility.**[**AccessibleText**](http://docs.google.com/javax/accessibility/AccessibleText.html) |
| --- |
| [CHARACTER](http://docs.google.com/javax/accessibility/AccessibleText.html#CHARACTER), [SENTENCE](http://docs.google.com/javax/accessibility/AccessibleText.html#SENTENCE), [WORD](http://docs.google.com/javax/accessibility/AccessibleText.html#WORD) |

| **Constructor Summary** | |
| --- | --- |
| [**TextComponent.AccessibleAWTTextComponent**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#TextComponent.AccessibleAWTTextComponent())()            Constructs an AccessibleAWTTextComponent. |

| **Method Summary** | |
| --- | --- |
| [AccessibleRole](http://docs.google.com/javax/accessibility/AccessibleRole.html) | [**getAccessibleRole**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getAccessibleRole())()            Gets the role of this object. |
| [AccessibleStateSet](http://docs.google.com/javax/accessibility/AccessibleStateSet.html) | [**getAccessibleStateSet**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getAccessibleStateSet())()            Gets the state set of the TextComponent. |
| [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) | [**getAccessibleText**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getAccessibleText())()            Get the AccessibleText associated with this object. |
| [String](http://docs.google.com/java/lang/String.html) | [**getAfterIndex**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getAfterIndex(int,%20int))(int part, int index)            Returns the String after a given index. |
| [String](http://docs.google.com/java/lang/String.html) | [**getAtIndex**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getAtIndex(int,%20int))(int part, int index)            Returns the String at a given index. |
| [String](http://docs.google.com/java/lang/String.html) | [**getBeforeIndex**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getBeforeIndex(int,%20int))(int part, int index)            Returns the String before a given index. |
| int | [**getCaretPosition**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getCaretPosition())()            Returns the zero-based offset of the caret. |
| [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) | [**getCharacterAttribute**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getCharacterAttribute(int))(int i)            Returns the AttributeSet for a given character (at a given index). |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | [**getCharacterBounds**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getCharacterBounds(int))(int i)            Determines the bounding box of the character at the given index into the string. |
| int | [**getCharCount**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getCharCount())()            Returns the number of characters (valid indicies) |
| int | [**getIndexAtPoint**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getIndexAtPoint(java.awt.Point))([Point](http://docs.google.com/java/awt/Point.html) p)            Given a point in local coordinates, return the zero-based index of the character under that Point. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSelectedText**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getSelectedText())()            Returns the portion of the text that is selected. |
| int | [**getSelectionEnd**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getSelectionEnd())()            Returns the end offset within the selected text. |
| int | [**getSelectionStart**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getSelectionStart())()            Returns the start offset within the selected text. |
| void | [**textValueChanged**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#textValueChanged(java.awt.event.TextEvent))([TextEvent](http://docs.google.com/java/awt/event/TextEvent.html) textEvent)            TextListener notification of a text value change. |

| **Methods inherited from class java.awt.**[**Component.AccessibleAWTComponent**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html) |
| --- |
| [addFocusListener](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#addFocusListener(java.awt.event.FocusListener)), [addPropertyChangeListener](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#addPropertyChangeListener(java.beans.PropertyChangeListener)), [contains](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#contains(java.awt.Point)), [getAccessibleAt](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleAt(java.awt.Point)), [getAccessibleChild](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleChild(int)), [getAccessibleChildrenCount](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleChildrenCount()), [getAccessibleComponent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleComponent()), [getAccessibleDescription](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleDescription()), [getAccessibleIndexInParent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleIndexInParent()), [getAccessibleName](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleName()), [getAccessibleParent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleParent()), [getBackground](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getBackground()), [getBounds](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getBounds()), [getCursor](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getCursor()), [getFont](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getFont()), [getFontMetrics](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getFontMetrics(java.awt.Font)), [getForeground](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getForeground()), [getLocale](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getLocale()), [getLocation](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getLocation()), [getLocationOnScreen](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getLocationOnScreen()), [getSize](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getSize()), [isEnabled](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#isEnabled()), [isFocusTraversable](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#isFocusTraversable()), [isShowing](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#isShowing()), [isVisible](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#isVisible()), [removeFocusListener](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#removeFocusListener(java.awt.event.FocusListener)), [removePropertyChangeListener](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#removePropertyChangeListener(java.beans.PropertyChangeListener)), [requestFocus](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#requestFocus()), [setBackground](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setBackground(java.awt.Color)), [setBounds](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setBounds(java.awt.Rectangle)), [setCursor](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setCursor(java.awt.Cursor)), [setEnabled](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setEnabled(boolean)), [setFont](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setFont(java.awt.Font)), [setForeground](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setForeground(java.awt.Color)), [setLocation](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setLocation(java.awt.Point)), [setSize](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setSize(java.awt.Dimension)), [setVisible](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setVisible(boolean)) |

| **Methods inherited from class javax.accessibility.**[**AccessibleContext**](http://docs.google.com/javax/accessibility/AccessibleContext.html) |
| --- |
| [firePropertyChange](http://docs.google.com/javax/accessibility/AccessibleContext.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [getAccessibleAction](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleAction()), [getAccessibleEditableText](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleEditableText()), [getAccessibleIcon](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleIcon()), [getAccessibleRelationSet](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleRelationSet()), [getAccessibleSelection](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleSelection()), [getAccessibleTable](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleTable()), [getAccessibleValue](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleValue()), [setAccessibleDescription](http://docs.google.com/javax/accessibility/AccessibleContext.html#setAccessibleDescription(java.lang.String)), [setAccessibleName](http://docs.google.com/javax/accessibility/AccessibleContext.html#setAccessibleName(java.lang.String)), [setAccessibleParent](http://docs.google.com/javax/accessibility/AccessibleContext.html#setAccessibleParent(javax.accessibility.Accessible)) |

| **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** |
| --- |

### TextComponent.AccessibleAWTTextComponent

public **TextComponent.AccessibleAWTTextComponent**()

Constructs an AccessibleAWTTextComponent. Adds a listener to track caret change.

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

### textValueChanged

public void **textValueChanged**([TextEvent](http://docs.google.com/java/awt/event/TextEvent.html) textEvent)

TextListener notification of a text value change.

**Specified by:**[textValueChanged](http://docs.google.com/java/awt/event/TextListener.html#textValueChanged(java.awt.event.TextEvent)) in interface [TextListener](http://docs.google.com/java/awt/event/TextListener.html)

### getAccessibleStateSet

public [AccessibleStateSet](http://docs.google.com/javax/accessibility/AccessibleStateSet.html) **getAccessibleStateSet**()

Gets the state set of the TextComponent. The AccessibleStateSet of an object is composed of a set of unique AccessibleStates. A change in the AccessibleStateSet of an object will cause a PropertyChangeEvent to be fired for the AccessibleContext.ACCESSIBLE\_STATE\_PROPERTY property.

**Overrides:**[getAccessibleStateSet](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleStateSet()) in class [Component.AccessibleAWTComponent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html) **Returns:**an instance of AccessibleStateSet containing the current state set of the object**See Also:**[AccessibleStateSet](http://docs.google.com/javax/accessibility/AccessibleStateSet.html), [AccessibleState](http://docs.google.com/javax/accessibility/AccessibleState.html), [Component.AccessibleAWTComponent.addPropertyChangeListener(java.beans.PropertyChangeListener)](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#addPropertyChangeListener(java.beans.PropertyChangeListener))

### getAccessibleRole

public [AccessibleRole](http://docs.google.com/javax/accessibility/AccessibleRole.html) **getAccessibleRole**()

Gets the role of this object.

**Overrides:**[getAccessibleRole](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getAccessibleRole()) in class [Component.AccessibleAWTComponent](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html) **Returns:**an instance of AccessibleRole describing the role of the object (AccessibleRole.TEXT)**See Also:**[AccessibleRole](http://docs.google.com/javax/accessibility/AccessibleRole.html)

### getAccessibleText

public [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **getAccessibleText**()

Get the AccessibleText associated with this object. In the implementation of the Java Accessibility API for this class, return this object, which is responsible for implementing the AccessibleText interface on behalf of itself.

**Overrides:**[getAccessibleText](http://docs.google.com/javax/accessibility/AccessibleContext.html#getAccessibleText()) in class [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) **Returns:**this object**See Also:**[AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html)

### getIndexAtPoint

public int **getIndexAtPoint**([Point](http://docs.google.com/java/awt/Point.html) p)

Given a point in local coordinates, return the zero-based index of the character under that Point. If the point is invalid, this method returns -1.

**Specified by:**[getIndexAtPoint](http://docs.google.com/javax/accessibility/AccessibleText.html#getIndexAtPoint(java.awt.Point)) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Parameters:**p - the Point in local coordinates **Returns:**the zero-based index of the character under Point p.

### getCharacterBounds

public [Rectangle](http://docs.google.com/java/awt/Rectangle.html) **getCharacterBounds**(int i)

Determines the bounding box of the character at the given index into the string. The bounds are returned in local coordinates. If the index is invalid a null rectangle is returned.

**Specified by:**[getCharacterBounds](http://docs.google.com/javax/accessibility/AccessibleText.html#getCharacterBounds(int)) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Parameters:**i - the index into the String >= 0 **Returns:**the screen coordinates of the character's bounding box

### getCharCount

public int **getCharCount**()

Returns the number of characters (valid indicies)

**Specified by:**[getCharCount](http://docs.google.com/javax/accessibility/AccessibleText.html#getCharCount()) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Returns:**the number of characters >= 0

### getCaretPosition

public int **getCaretPosition**()

Returns the zero-based offset of the caret. Note: The character to the right of the caret will have the same index value as the offset (the caret is between two characters).

**Specified by:**[getCaretPosition](http://docs.google.com/javax/accessibility/AccessibleText.html#getCaretPosition()) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Returns:**the zero-based offset of the caret.

### getCharacterAttribute

public [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) **getCharacterAttribute**(int i)

Returns the AttributeSet for a given character (at a given index).

**Specified by:**[getCharacterAttribute](http://docs.google.com/javax/accessibility/AccessibleText.html#getCharacterAttribute(int)) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Parameters:**i - the zero-based index into the text **Returns:**the AttributeSet of the character

### getSelectionStart

public int **getSelectionStart**()

Returns the start offset within the selected text. If there is no selection, but there is a caret, the start and end offsets will be the same. Return 0 if the text is empty, or the caret position if no selection.

**Specified by:**[getSelectionStart](http://docs.google.com/javax/accessibility/AccessibleText.html#getSelectionStart()) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Returns:**the index into the text of the start of the selection >= 0

### getSelectionEnd

public int **getSelectionEnd**()

Returns the end offset within the selected text. If there is no selection, but there is a caret, the start and end offsets will be the same. Return 0 if the text is empty, or the caret position if no selection.

**Specified by:**[getSelectionEnd](http://docs.google.com/javax/accessibility/AccessibleText.html#getSelectionEnd()) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Returns:**the index into teh text of the end of the selection >= 0

### getSelectedText

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

Returns the portion of the text that is selected.

**Specified by:**[getSelectedText](http://docs.google.com/javax/accessibility/AccessibleText.html#getSelectedText()) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Returns:**the text, null if no selection

### getAtIndex

public [String](http://docs.google.com/java/lang/String.html) **getAtIndex**(int part,  
 int index)

Returns the String at a given index.

**Specified by:**[getAtIndex](http://docs.google.com/javax/accessibility/AccessibleText.html#getAtIndex(int,%20int)) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Parameters:**part - the AccessibleText.CHARACTER, AccessibleText.WORD, or AccessibleText.SENTENCE to retrieveindex - an index within the text >= 0 **Returns:**the letter, word, or sentence, null for an invalid index or part

### getAfterIndex

public [String](http://docs.google.com/java/lang/String.html) **getAfterIndex**(int part,  
 int index)

Returns the String after a given index.

**Specified by:**[getAfterIndex](http://docs.google.com/javax/accessibility/AccessibleText.html#getAfterIndex(int,%20int)) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Parameters:**part - the AccessibleText.CHARACTER, AccessibleText.WORD, or AccessibleText.SENTENCE to retrieveindex - an index within the text >= 0 **Returns:**the letter, word, or sentence, null for an invalid index or part

### getBeforeIndex

public [String](http://docs.google.com/java/lang/String.html) **getBeforeIndex**(int part,  
 int index)

Returns the String before a given index.

**Specified by:**[getBeforeIndex](http://docs.google.com/javax/accessibility/AccessibleText.html#getBeforeIndex(int,%20int)) in interface [AccessibleText](http://docs.google.com/javax/accessibility/AccessibleText.html) **Parameters:**part - the AccessibleText.CHARACTER, AccessibleText.WORD, or AccessibleText.SENTENCE to retrieveindex - an index within the text >= 0 **Returns:**the letter, word, or sentence, null for an invalid index or part

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TextComponent.AccessibleAWTTextComponent.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/java/awt/TextComponent.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/TextField.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/TextComponent.AccessibleAWTTextComponent.html)    [**NO FRAMES**](http://docs.google.com/TextComponent.AccessibleAWTTextComponent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#2s8eyo1) | [METHOD](#17dp8vu) | DETAIL: FIELD | [CONSTR](#35nkun2) | [METHOD](#44sinio) |

[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).