| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractDocument.LeafElement.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/text/AbstractDocument.ElementEdit.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/AbstractWriter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/AbstractDocument.LeafElement.html)    [**NO FRAMES**](http://docs.google.com/AbstractDocument.LeafElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **javax.swing.text**

Class AbstractDocument.LeafElement

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.swing.text.AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html)  
 **javax.swing.text.AbstractDocument.LeafElement**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html), [Element](http://docs.google.com/javax/swing/text/Element.html), [MutableAttributeSet](http://docs.google.com/javax/swing/text/MutableAttributeSet.html), [TreeNode](http://docs.google.com/javax/swing/tree/TreeNode.html) **Direct Known Subclasses:** [HTMLDocument.RunElement](http://docs.google.com/javax/swing/text/html/HTMLDocument.RunElement.html) **Enclosing class:**[AbstractDocument](http://docs.google.com/javax/swing/text/AbstractDocument.html)

public class **AbstractDocument.LeafElement**extends [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html)

Implements an element that directly represents content of some kind.

**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).

**See Also:**[Element](http://docs.google.com/javax/swing/text/Element.html)

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

| **Nested classes/interfaces inherited from interface javax.swing.text.**[**AttributeSet**](http://docs.google.com/javax/swing/text/AttributeSet.html) |
| --- |
| [AttributeSet.CharacterAttribute](http://docs.google.com/javax/swing/text/AttributeSet.CharacterAttribute.html), [AttributeSet.ColorAttribute](http://docs.google.com/javax/swing/text/AttributeSet.ColorAttribute.html), [AttributeSet.FontAttribute](http://docs.google.com/javax/swing/text/AttributeSet.FontAttribute.html), [AttributeSet.ParagraphAttribute](http://docs.google.com/javax/swing/text/AttributeSet.ParagraphAttribute.html) |

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

| **Fields inherited from interface javax.swing.text.**[**AttributeSet**](http://docs.google.com/javax/swing/text/AttributeSet.html) |
| --- |
| [NameAttribute](http://docs.google.com/javax/swing/text/AttributeSet.html#NameAttribute), [ResolveAttribute](http://docs.google.com/javax/swing/text/AttributeSet.html#ResolveAttribute) |

| **Constructor Summary** | |
| --- | --- |
| [**AbstractDocument.LeafElement**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#AbstractDocument.LeafElement(javax.swing.text.Element,%20javax.swing.text.AttributeSet,%20int,%20int))([Element](http://docs.google.com/javax/swing/text/Element.html) parent, [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) a, int offs0, int offs1)            Constructs an element that represents content within the document (has no children). |

| **Method Summary** | |
| --- | --- |
| [Enumeration](http://docs.google.com/java/util/Enumeration.html) | [**children**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#children())()            Returns the children of the receiver as an Enumeration. |
| boolean | [**getAllowsChildren**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getAllowsChildren())()            Returns true if the receiver allows children. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**getElement**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getElement(int))(int index)            Gets a child element. |
| int | [**getElementCount**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getElementCount())()            Returns the number of child elements. |
| int | [**getElementIndex**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getElementIndex(int))(int pos)            Gets the child element index closest to the given model offset. |
| int | [**getEndOffset**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getEndOffset())()            Gets the ending offset in the model for the element. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getName())()            Gets the element name. |
| int | [**getStartOffset**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#getStartOffset())()            Gets the starting offset in the model for the element. |
| boolean | [**isLeaf**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#isLeaf())()            Checks whether the element is a leaf. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/swing/text/AbstractDocument.LeafElement.html#toString())()            Converts the element to a string. |

| **Methods inherited from class javax.swing.text.**[**AbstractDocument.AbstractElement**](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) |
| --- |
| [addAttribute](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#addAttribute(java.lang.Object,%20java.lang.Object)), [addAttributes](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#addAttributes(javax.swing.text.AttributeSet)), [containsAttribute](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#containsAttribute(java.lang.Object,%20java.lang.Object)), [containsAttributes](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#containsAttributes(javax.swing.text.AttributeSet)), [copyAttributes](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#copyAttributes()), [dump](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#dump(java.io.PrintStream,%20int)), [getAttribute](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getAttribute(java.lang.Object)), [getAttributeCount](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getAttributeCount()), [getAttributeNames](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getAttributeNames()), [getAttributes](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getAttributes()), [getChildAt](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getChildAt(int)), [getChildCount](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getChildCount()), [getDocument](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getDocument()), [getIndex](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getIndex(javax.swing.tree.TreeNode)), [getParent](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getParent()), [getParentElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getParentElement()), [getResolveParent](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getResolveParent()), [isDefined](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#isDefined(java.lang.Object)), [isEqual](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#isEqual(javax.swing.text.AttributeSet)), [removeAttribute](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#removeAttribute(java.lang.Object)), [removeAttributes](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#removeAttributes(javax.swing.text.AttributeSet)), [removeAttributes](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#removeAttributes(java.util.Enumeration)), [setResolveParent](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#setResolveParent(javax.swing.text.AttributeSet)) |

| **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()), [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** |
| --- |

### AbstractDocument.LeafElement

public **AbstractDocument.LeafElement**([Element](http://docs.google.com/javax/swing/text/Element.html) parent,  
 [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) a,  
 int offs0,  
 int offs1)

Constructs an element that represents content within the document (has no children).

**Parameters:**parent - The parent elementa - The element attributesoffs0 - The start offset >= 0offs1 - The end offset >= offs0**Since:** 1.4

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

### toString

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

Converts the element to a string.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**the string

### getStartOffset

public int **getStartOffset**()

Gets the starting offset in the model for the element.

**Specified by:**[getStartOffset](http://docs.google.com/javax/swing/text/Element.html#getStartOffset()) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Specified by:**[getStartOffset](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getStartOffset()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**the offset >= 0**See Also:**[Document](http://docs.google.com/javax/swing/text/Document.html), [AbstractDocument](http://docs.google.com/javax/swing/text/AbstractDocument.html)

### getEndOffset

public int **getEndOffset**()

Gets the ending offset in the model for the element.

**Specified by:**[getEndOffset](http://docs.google.com/javax/swing/text/Element.html#getEndOffset()) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Specified by:**[getEndOffset](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getEndOffset()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**the offset >= 0**See Also:**[Document](http://docs.google.com/javax/swing/text/Document.html), [AbstractDocument](http://docs.google.com/javax/swing/text/AbstractDocument.html)

### getName

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

Gets the element name.

**Specified by:**[getName](http://docs.google.com/javax/swing/text/Element.html#getName()) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Overrides:**[getName](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getName()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**the name

### getElementIndex

public int **getElementIndex**(int pos)

Gets the child element index closest to the given model offset.

**Specified by:**[getElementIndex](http://docs.google.com/javax/swing/text/Element.html#getElementIndex(int)) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Specified by:**[getElementIndex](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getElementIndex(int)) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Parameters:**pos - the offset >= 0 **Returns:**the element index >= 0

### getElement

public [Element](http://docs.google.com/javax/swing/text/Element.html) **getElement**(int index)

Gets a child element.

**Specified by:**[getElement](http://docs.google.com/javax/swing/text/Element.html#getElement(int)) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Specified by:**[getElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getElement(int)) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Parameters:**index - the child index, >= 0 && < getElementCount() **Returns:**the child element

### getElementCount

public int **getElementCount**()

Returns the number of child elements.

**Specified by:**[getElementCount](http://docs.google.com/javax/swing/text/Element.html#getElementCount()) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Specified by:**[getElementCount](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getElementCount()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**the number of children >= 0

### isLeaf

public boolean **isLeaf**()

Checks whether the element is a leaf.

**Specified by:**[isLeaf](http://docs.google.com/javax/swing/text/Element.html#isLeaf()) in interface [Element](http://docs.google.com/javax/swing/text/Element.html)**Specified by:**[isLeaf](http://docs.google.com/javax/swing/tree/TreeNode.html#isLeaf()) in interface [TreeNode](http://docs.google.com/javax/swing/tree/TreeNode.html)**Specified by:**[isLeaf](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#isLeaf()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**true if a leaf

### getAllowsChildren

public boolean **getAllowsChildren**()

Returns true if the receiver allows children.

**Specified by:**[getAllowsChildren](http://docs.google.com/javax/swing/tree/TreeNode.html#getAllowsChildren()) in interface [TreeNode](http://docs.google.com/javax/swing/tree/TreeNode.html)**Specified by:**[getAllowsChildren](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#getAllowsChildren()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**true if the receiver allows children, otherwise false

### children

public [Enumeration](http://docs.google.com/java/util/Enumeration.html) **children**()

Returns the children of the receiver as an Enumeration.

**Specified by:**[children](http://docs.google.com/javax/swing/tree/TreeNode.html#children()) in interface [TreeNode](http://docs.google.com/javax/swing/tree/TreeNode.html)**Specified by:**[children](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html#children()) in class [AbstractDocument.AbstractElement](http://docs.google.com/javax/swing/text/AbstractDocument.AbstractElement.html) **Returns:**the children of the receiver

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractDocument.LeafElement.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/text/AbstractDocument.ElementEdit.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/AbstractWriter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/AbstractDocument.LeafElement.html)    [**NO FRAMES**](http://docs.google.com/AbstractDocument.LeafElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

[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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