| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultStyledDocument.ElementBuffer.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/DefaultStyledDocument.AttributeUndoableEdit.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementSpec.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/DefaultStyledDocument.ElementBuffer.html)    [**NO FRAMES**](http://docs.google.com/DefaultStyledDocument.ElementBuffer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.swing.text**

Class DefaultStyledDocument.ElementBuffer

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.text.DefaultStyledDocument.ElementBuffer**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html) **Enclosing class:**[DefaultStyledDocument](http://docs.google.com/javax/swing/text/DefaultStyledDocument.html)

public class **DefaultStyledDocument.ElementBuffer**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

Class to manage changes to the element hierarchy.

**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).

| **Constructor Summary** | |
| --- | --- |
| [**DefaultStyledDocument.ElementBuffer**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#DefaultStyledDocument.ElementBuffer(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) root)            Creates a new ElementBuffer. |

| **Method Summary** | |
| --- | --- |
| void | [**change**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#change(int,%20int,%20javax.swing.text.AbstractDocument.DefaultDocumentEvent))(int offset, int length, [AbstractDocument.DefaultDocumentEvent](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) de)            Changes content. |
| protected  void | [**changeUpdate**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#changeUpdate())()            Updates the element structure in response to a change in the document. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**clone**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#clone(javax.swing.text.Element,%20javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) parent, [Element](http://docs.google.com/javax/swing/text/Element.html) clonee)            Creates a copy of this element, with a different parent. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**getRootElement**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#getRootElement())()            Gets the root element. |
| void | [**insert**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#insert(int,%20int,%20javax.swing.text.DefaultStyledDocument.ElementSpec%5B%5D,%20javax.swing.text.AbstractDocument.DefaultDocumentEvent))(int offset, int length, [DefaultStyledDocument.ElementSpec](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementSpec.html)[] data, [AbstractDocument.DefaultDocumentEvent](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) de)            Inserts new content. |
| protected  void | [**insertUpdate**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#insertUpdate(javax.swing.text.DefaultStyledDocument.ElementSpec%5B%5D))([DefaultStyledDocument.ElementSpec](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementSpec.html)[] data)            Inserts an update into the document. |
| void | [**remove**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#remove(int,%20int,%20javax.swing.text.AbstractDocument.DefaultDocumentEvent))(int offset, int length, [AbstractDocument.DefaultDocumentEvent](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) de)            Removes content. |
| protected  void | [**removeUpdate**](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementBuffer.html#removeUpdate())()            Updates the element structure in response to a removal from the associated sequence in the document. |

| **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** |
| --- |

### DefaultStyledDocument.ElementBuffer

public **DefaultStyledDocument.ElementBuffer**([Element](http://docs.google.com/javax/swing/text/Element.html) root)

Creates a new ElementBuffer.

**Parameters:**root - the root element**Since:** 1.4

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

### getRootElement

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

Gets the root element.

**Returns:**the root element

### insert

public void **insert**(int offset,  
 int length,  
 [DefaultStyledDocument.ElementSpec](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementSpec.html)[] data,  
 [AbstractDocument.DefaultDocumentEvent](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) de)

Inserts new content.

**Parameters:**offset - the starting offset >= 0length - the length >= 0data - the data to insertde - the event capturing this edit

### remove

public void **remove**(int offset,  
 int length,  
 [AbstractDocument.DefaultDocumentEvent](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) de)

Removes content.

**Parameters:**offset - the starting offset >= 0length - the length >= 0de - the event capturing this edit

### change

public void **change**(int offset,  
 int length,  
 [AbstractDocument.DefaultDocumentEvent](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) de)

Changes content.

**Parameters:**offset - the starting offset >= 0length - the length >= 0de - the event capturing this edit

### insertUpdate

protected void **insertUpdate**([DefaultStyledDocument.ElementSpec](http://docs.google.com/javax/swing/text/DefaultStyledDocument.ElementSpec.html)[] data)

Inserts an update into the document.

**Parameters:**data - the elements to insert

### removeUpdate

protected void **removeUpdate**()

Updates the element structure in response to a removal from the associated sequence in the document. Any elements consumed by the span of the removal are removed.

### changeUpdate

protected void **changeUpdate**()

Updates the element structure in response to a change in the document.

### clone

public [Element](http://docs.google.com/javax/swing/text/Element.html) **clone**([Element](http://docs.google.com/javax/swing/text/Element.html) parent,  
 [Element](http://docs.google.com/javax/swing/text/Element.html) clonee)

Creates a copy of this element, with a different parent.

**Parameters:**parent - the parent elementclonee - the element to be cloned **Returns:**the copy

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[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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