| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StringContent.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/SimpleAttributeSet.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/Style.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/StringContent.html)    [**NO FRAMES**](http://docs.google.com/StringContent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#2s8eyo1) |

## **javax.swing.text**

Class StringContent

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html)

public final class **StringContent**extends [Object](http://docs.google.com/java/lang/Object.html)implements [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

An implementation of the AbstractDocument.Content interface that is a brute force implementation that is useful for relatively small documents and/or debugging. It manages the character content as a simple character array. It is also quite inefficient.

It is generally recommended that the gap buffer or piece table implementations be used instead. This buffer does not scale up to large sizes.

**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** | |
| --- | --- |
| [**StringContent**](http://docs.google.com/javax/swing/text/StringContent.html#StringContent())()            Creates a new StringContent object. |
| [**StringContent**](http://docs.google.com/javax/swing/text/StringContent.html#StringContent(int))(int initialLength)            Creates a new StringContent object, with the initial size specified. |

| **Method Summary** | |
| --- | --- |
| [Position](http://docs.google.com/javax/swing/text/Position.html) | [**createPosition**](http://docs.google.com/javax/swing/text/StringContent.html#createPosition(int))(int offset)            Creates a position within the content that will track change as the content is mutated. |
| void | [**getChars**](http://docs.google.com/javax/swing/text/StringContent.html#getChars(int,%20int,%20javax.swing.text.Segment))(int where, int len, [Segment](http://docs.google.com/javax/swing/text/Segment.html) chars)            Retrieves a portion of the content. |
| protected  [Vector](http://docs.google.com/java/util/Vector.html) | [**getPositionsInRange**](http://docs.google.com/javax/swing/text/StringContent.html#getPositionsInRange(java.util.Vector,%20int,%20int))([Vector](http://docs.google.com/java/util/Vector.html) v, int offset, int length)            Returns a Vector containing instances of UndoPosRef for the Positions in the range offset to offset + length. |
| [String](http://docs.google.com/java/lang/String.html) | [**getString**](http://docs.google.com/javax/swing/text/StringContent.html#getString(int,%20int))(int where, int len)            Retrieves a portion of the content. |
| [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) | [**insertString**](http://docs.google.com/javax/swing/text/StringContent.html#insertString(int,%20java.lang.String))(int where, [String](http://docs.google.com/java/lang/String.html) str)            Inserts a string into the content. |
| int | [**length**](http://docs.google.com/javax/swing/text/StringContent.html#length())()            Returns the length of the content. |
| [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) | [**remove**](http://docs.google.com/javax/swing/text/StringContent.html#remove(int,%20int))(int where, int nitems)            Removes part of the content. |
| protected  void | [**updateUndoPositions**](http://docs.google.com/javax/swing/text/StringContent.html#updateUndoPositions(java.util.Vector))([Vector](http://docs.google.com/java/util/Vector.html) positions)            Resets the location for all the UndoPosRef instances in positions. |

| **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** |
| --- |

### StringContent

public **StringContent**()

Creates a new StringContent object. Initial size defaults to 10.

### StringContent

public **StringContent**(int initialLength)

Creates a new StringContent object, with the initial size specified. If the length is < 1, a size of 1 is used.

**Parameters:**initialLength - the initial size

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

### length

public int **length**()

Returns the length of the content.

**Specified by:**[length](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#length()) in interface [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html) **Returns:**the length >= 1**See Also:**[AbstractDocument.Content.length()](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#length())

### insertString

public [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **insertString**(int where,  
 [String](http://docs.google.com/java/lang/String.html) str)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Inserts a string into the content.

**Specified by:**[insertString](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#insertString(int,%20java.lang.String)) in interface [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html) **Parameters:**where - the starting position >= 0 && < length()str - the non-null string to insert **Returns:**an UndoableEdit object for undoing **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the specified position is invalid**See Also:**[AbstractDocument.Content.insertString(int, java.lang.String)](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#insertString(int,%20java.lang.String))

### remove

public [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **remove**(int where,  
 int nitems)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Removes part of the content. where + nitems must be < length().

**Specified by:**[remove](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#remove(int,%20int)) in interface [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html) **Parameters:**where - the starting position >= 0nitems - the number of characters to remove >= 0 **Returns:**an UndoableEdit object for undoing **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the specified position is invalid**See Also:**[AbstractDocument.Content.remove(int, int)](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#remove(int,%20int))

### getString

public [String](http://docs.google.com/java/lang/String.html) **getString**(int where,  
 int len)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Retrieves a portion of the content. where + len must be <= length().

**Specified by:**[getString](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#getString(int,%20int)) in interface [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html) **Parameters:**where - the starting position >= 0len - the length to retrieve >= 0 **Returns:**a string representing the content; may be empty **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the specified position is invalid**See Also:**[AbstractDocument.Content.getString(int, int)](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#getString(int,%20int))

### getChars

public void **getChars**(int where,  
 int len,  
 [Segment](http://docs.google.com/javax/swing/text/Segment.html) chars)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Retrieves a portion of the content. where + len must be <= length()

**Specified by:**[getChars](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#getChars(int,%20int,%20javax.swing.text.Segment)) in interface [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html) **Parameters:**where - the starting position >= 0len - the number of characters to retrieve >= 0chars - the Segment object to return the characters in **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the specified position is invalid**See Also:**[AbstractDocument.Content.getChars(int, int, javax.swing.text.Segment)](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#getChars(int,%20int,%20javax.swing.text.Segment))

### createPosition

public [Position](http://docs.google.com/javax/swing/text/Position.html) **createPosition**(int offset)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Creates a position within the content that will track change as the content is mutated.

**Specified by:**[createPosition](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#createPosition(int)) in interface [AbstractDocument.Content](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html) **Parameters:**offset - the offset to create a position for >= 0 **Returns:**the position **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if the specified position is invalid

### getPositionsInRange

protected [Vector](http://docs.google.com/java/util/Vector.html) **getPositionsInRange**([Vector](http://docs.google.com/java/util/Vector.html) v,  
 int offset,  
 int length)

Returns a Vector containing instances of UndoPosRef for the Positions in the range offset to offset + length. If v is not null the matching Positions are placed in there. The vector with the resulting Positions are returned.

This is meant for internal usage, and is generally not of interest to subclasses.

**Parameters:**v - the Vector to use, with a new one created on nulloffset - the starting offset >= 0length - the length >= 0 **Returns:**the set of instances

### updateUndoPositions

protected void **updateUndoPositions**([Vector](http://docs.google.com/java/util/Vector.html) positions)

Resets the location for all the UndoPosRef instances in positions.

This is meant for internal usage, and is generally not of interest to subclasses.

**Parameters:**positions - the positions of the instances

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StringContent.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [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.

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