| | [**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.Content.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.BranchElement.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/AbstractDocument.Content.html)    [**NO FRAMES**](http://docs.google.com/AbstractDocument.Content.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **javax.swing.text**

Interface AbstractDocument.Content

**All Known Implementing Classes:** [GapContent](http://docs.google.com/javax/swing/text/GapContent.html), [StringContent](http://docs.google.com/javax/swing/text/StringContent.html) **Enclosing class:**[AbstractDocument](http://docs.google.com/javax/swing/text/AbstractDocument.html)

public static interface **AbstractDocument.Content**

Interface to describe a sequence of character content that can be edited. Implementations may or may not support a history mechanism which will be reflected by whether or not mutations return an UndoableEdit implementation.

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

| **Method Summary** | |
| --- | --- |
| [Position](http://docs.google.com/javax/swing/text/Position.html) | [**createPosition**](http://docs.google.com/javax/swing/text/AbstractDocument.Content.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/AbstractDocument.Content.html#getChars(int,%20int,%20javax.swing.text.Segment))(int where, int len, [Segment](http://docs.google.com/javax/swing/text/Segment.html) txt)            Gets a sequence of characters and copies them into a Segment. |
| [String](http://docs.google.com/java/lang/String.html) | [**getString**](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#getString(int,%20int))(int where, int len)            Fetches a string of characters contained in the sequence. |
| [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) | [**insertString**](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#insertString(int,%20java.lang.String))(int where, [String](http://docs.google.com/java/lang/String.html) str)            Inserts a string of characters into the sequence. |
| int | [**length**](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#length())()            Current length of the sequence of character content. |
| [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) | [**remove**](http://docs.google.com/javax/swing/text/AbstractDocument.Content.html#remove(int,%20int))(int where, int nitems)            Removes some portion of the sequence. |

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

### createPosition

[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.

**Parameters:**offset - the offset in the content >= 0 **Returns:**a Position **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - for an invalid offset

### length

int **length**()

Current length of the sequence of character content.

**Returns:**the length >= 0

### insertString

[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 of characters into the sequence.

**Parameters:**where - offset into the sequence to make the insertion >= 0str - string to insert **Returns:**if the implementation supports a history mechanism, a reference to an Edit implementation will be returned, otherwise returns null **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - thrown if the area covered by the arguments is not contained in the character sequence

### remove

[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 some portion of the sequence.

**Parameters:**where - The offset into the sequence to make the insertion >= 0.nitems - The number of items in the sequence to remove >= 0. **Returns:**If the implementation supports a history mechansim, a reference to an Edit implementation will be returned, otherwise null. **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - Thrown if the area covered by the arguments is not contained in the character sequence.

### getString

[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)

Fetches a string of characters contained in the sequence.

**Parameters:**where - Offset into the sequence to fetch >= 0.len - number of characters to copy >= 0. **Returns:**the string **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - Thrown if the area covered by the arguments is not contained in the character sequence.

### getChars

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

Gets a sequence of characters and copies them into a Segment.

**Parameters:**where - the starting offset >= 0len - the number of characters >= 0txt - the target location to copy into **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - Thrown if the area covered by the arguments is not contained in the character sequence.

| | [**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.Content.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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[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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