| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StringCharacterIterator.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/text/SimpleDateFormat.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/text/StringCharacterIterator.html)    [**NO FRAMES**](http://docs.google.com/StringCharacterIterator.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#26in1rg) |

## **java.text**

Class StringCharacterIterator

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

**All Implemented Interfaces:** [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html)

public final class **StringCharacterIterator**extends [Object](http://docs.google.com/java/lang/Object.html)implements [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html)

StringCharacterIterator implements the CharacterIterater protocol for a String. The StringCharacterIterator class iterates over the entire String.

**See Also:**[CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html)

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

| **Fields inherited from interface java.text.**[**CharacterIterator**](http://docs.google.com/java/text/CharacterIterator.html) |
| --- |
| [DONE](http://docs.google.com/java/text/CharacterIterator.html#DONE) |

| **Constructor Summary** | |
| --- | --- |
| [**StringCharacterIterator**](http://docs.google.com/java/text/StringCharacterIterator.html#StringCharacterIterator(java.lang.String))([String](http://docs.google.com/java/lang/String.html) text)            Constructs an iterator with an initial index of 0. |
| [**StringCharacterIterator**](http://docs.google.com/java/text/StringCharacterIterator.html#StringCharacterIterator(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) text, int pos)            Constructs an iterator with the specified initial index. |
| [**StringCharacterIterator**](http://docs.google.com/java/text/StringCharacterIterator.html#StringCharacterIterator(java.lang.String,%20int,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) text, int begin, int end, int pos)            Constructs an iterator over the given range of the given string, with the index set at the specified position. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**clone**](http://docs.google.com/java/text/StringCharacterIterator.html#clone())()            Creates a copy of this iterator. |
| char | [**current**](http://docs.google.com/java/text/StringCharacterIterator.html#current())()            Implements CharacterIterator.current() for String. |
| boolean | [**equals**](http://docs.google.com/java/text/StringCharacterIterator.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Compares the equality of two StringCharacterIterator objects. |
| char | [**first**](http://docs.google.com/java/text/StringCharacterIterator.html#first())()            Implements CharacterIterator.first() for String. |
| int | [**getBeginIndex**](http://docs.google.com/java/text/StringCharacterIterator.html#getBeginIndex())()            Implements CharacterIterator.getBeginIndex() for String. |
| int | [**getEndIndex**](http://docs.google.com/java/text/StringCharacterIterator.html#getEndIndex())()            Implements CharacterIterator.getEndIndex() for String. |
| int | [**getIndex**](http://docs.google.com/java/text/StringCharacterIterator.html#getIndex())()            Implements CharacterIterator.getIndex() for String. |
| int | [**hashCode**](http://docs.google.com/java/text/StringCharacterIterator.html#hashCode())()            Computes a hashcode for this iterator. |
| char | [**last**](http://docs.google.com/java/text/StringCharacterIterator.html#last())()            Implements CharacterIterator.last() for String. |
| char | [**next**](http://docs.google.com/java/text/StringCharacterIterator.html#next())()            Implements CharacterIterator.next() for String. |
| char | [**previous**](http://docs.google.com/java/text/StringCharacterIterator.html#previous())()            Implements CharacterIterator.previous() for String. |
| char | [**setIndex**](http://docs.google.com/java/text/StringCharacterIterator.html#setIndex(int))(int p)            Implements CharacterIterator.setIndex() for String. |
| void | [**setText**](http://docs.google.com/java/text/StringCharacterIterator.html#setText(java.lang.String))([String](http://docs.google.com/java/lang/String.html) text)            Reset this iterator to point to a new string. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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** |
| --- |

### StringCharacterIterator

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

Constructs an iterator with an initial index of 0.

### StringCharacterIterator

public **StringCharacterIterator**([String](http://docs.google.com/java/lang/String.html) text,  
 int pos)

Constructs an iterator with the specified initial index.

**Parameters:**text - The String to be iterated overpos - Initial iterator position

### StringCharacterIterator

public **StringCharacterIterator**([String](http://docs.google.com/java/lang/String.html) text,  
 int begin,  
 int end,  
 int pos)

Constructs an iterator over the given range of the given string, with the index set at the specified position.

**Parameters:**text - The String to be iterated overbegin - Index of the first characterend - Index of the character following the last characterpos - Initial iterator position

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

### setText

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

Reset this iterator to point to a new string. This package-visible method is used by other java.text classes that want to avoid allocating new StringCharacterIterator objects every time their setText method is called.

**Parameters:**text - The String to be iterated over**Since:** 1.2

### first

public char **first**()

Implements CharacterIterator.first() for String.

**Specified by:**[first](http://docs.google.com/java/text/CharacterIterator.html#first()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the first character in the text, or DONE if the text is empty**See Also:**[CharacterIterator.first()](http://docs.google.com/java/text/CharacterIterator.html#first())

### last

public char **last**()

Implements CharacterIterator.last() for String.

**Specified by:**[last](http://docs.google.com/java/text/CharacterIterator.html#last()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the last character in the text, or DONE if the text is empty**See Also:**[CharacterIterator.last()](http://docs.google.com/java/text/CharacterIterator.html#last())

### setIndex

public char **setIndex**(int p)

Implements CharacterIterator.setIndex() for String.

**Specified by:**[setIndex](http://docs.google.com/java/text/CharacterIterator.html#setIndex(int)) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Parameters:**p - the position within the text. Valid values range from getBeginIndex() to getEndIndex(). An IllegalArgumentException is thrown if an invalid value is supplied. **Returns:**the character at the specified position or DONE if the specified position is equal to getEndIndex()**See Also:**[CharacterIterator.setIndex(int)](http://docs.google.com/java/text/CharacterIterator.html#setIndex(int))

### current

public char **current**()

Implements CharacterIterator.current() for String.

**Specified by:**[current](http://docs.google.com/java/text/CharacterIterator.html#current()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the character at the current position or DONE if the current position is off the end of the text.**See Also:**[CharacterIterator.current()](http://docs.google.com/java/text/CharacterIterator.html#current())

### next

public char **next**()

Implements CharacterIterator.next() for String.

**Specified by:**[next](http://docs.google.com/java/text/CharacterIterator.html#next()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the character at the new position or DONE if the new position is off the end of the text range.**See Also:**[CharacterIterator.next()](http://docs.google.com/java/text/CharacterIterator.html#next())

### previous

public char **previous**()

Implements CharacterIterator.previous() for String.

**Specified by:**[previous](http://docs.google.com/java/text/CharacterIterator.html#previous()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the character at the new position or DONE if the current position is equal to getBeginIndex().**See Also:**[CharacterIterator.previous()](http://docs.google.com/java/text/CharacterIterator.html#previous())

### getBeginIndex

public int **getBeginIndex**()

Implements CharacterIterator.getBeginIndex() for String.

**Specified by:**[getBeginIndex](http://docs.google.com/java/text/CharacterIterator.html#getBeginIndex()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the index at which the text begins.**See Also:**[CharacterIterator.getBeginIndex()](http://docs.google.com/java/text/CharacterIterator.html#getBeginIndex())

### getEndIndex

public int **getEndIndex**()

Implements CharacterIterator.getEndIndex() for String.

**Specified by:**[getEndIndex](http://docs.google.com/java/text/CharacterIterator.html#getEndIndex()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the index after the last character in the text**See Also:**[CharacterIterator.getEndIndex()](http://docs.google.com/java/text/CharacterIterator.html#getEndIndex())

### getIndex

public int **getIndex**()

Implements CharacterIterator.getIndex() for String.

**Specified by:**[getIndex](http://docs.google.com/java/text/CharacterIterator.html#getIndex()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) **Returns:**the current index.**See Also:**[CharacterIterator.getIndex()](http://docs.google.com/java/text/CharacterIterator.html#getIndex())

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Compares the equality of two StringCharacterIterator objects.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the StringCharacterIterator object to be compared with. **Returns:**true if the given obj is the same as this StringCharacterIterator object; false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Computes a hashcode for this iterator.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**A hash code**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### clone

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

Creates a copy of this iterator.

**Specified by:**[clone](http://docs.google.com/java/text/CharacterIterator.html#clone()) in interface [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html)**Overrides:**[clone](http://docs.google.com/java/lang/Object.html#clone()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**A copy of this**See Also:**[Cloneable](http://docs.google.com/java/lang/Cloneable.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StringCharacterIterator.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/text/SimpleDateFormat.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/text/StringCharacterIterator.html)    [**NO FRAMES**](http://docs.google.com/StringCharacterIterator.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#26in1rg) |

[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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