| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AttributedCharacterIterator.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/Annotation.html)   [**NEXT CLASS**](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) | [**FRAMES**](http://docs.google.com/index.html?java/text/AttributedCharacterIterator.html)    [**NO FRAMES**](http://docs.google.com/AttributedCharacterIterator.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | CONSTR | [METHOD](#3dy6vkm) | DETAIL: FIELD | CONSTR | [METHOD](#4d34og8) |

## **java.text**

Interface AttributedCharacterIterator

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

public interface **AttributedCharacterIterator**extends [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html)

An AttributedCharacterIterator allows iteration through both text and related attribute information.

An attribute is a key/value pair, identified by the key. No two attributes on a given character can have the same key.

The values for an attribute are immutable, or must not be mutated by clients or storage. They are always passed by reference, and not cloned.

A *run with respect to an attribute* is a maximum text range for which:

* the attribute is undefined or null for the entire range, or
* the attribute value is defined and has the same non-null value for the entire range.

A *run with respect to a set of attributes* is a maximum text range for which this condition is met for each member attribute.

The returned indexes are limited to the range of the iterator.

The returned attribute information is limited to runs that contain the current character.

Attribute keys are instances of AttributedCharacterIterator.Attribute and its subclasses, such as java.awt.font.TextAttribute.

**Since:** 1.2 **See Also:**[AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html), [TextAttribute](http://docs.google.com/java/awt/font/TextAttribute.html), [AttributedString](http://docs.google.com/java/text/AttributedString.html), [Annotation](http://docs.google.com/java/text/Annotation.html)

| **Nested Class Summary** | |
| --- | --- |
| static class | [**AttributedCharacterIterator.Attribute**](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)            Defines attribute keys that are used to identify text attributes. |

| **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) |

| **Method Summary** | |
| --- | --- |
| [Set](http://docs.google.com/java/util/Set.html)<[AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)> | [**getAllAttributeKeys**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getAllAttributeKeys())()            Returns the keys of all attributes defined on the iterator's text range. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getAttribute**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getAttribute(java.text.AttributedCharacterIterator.Attribute))([AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) attribute)            Returns the value of the named attribute for the current character. |
| [Map](http://docs.google.com/java/util/Map.html)<[AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html),[Object](http://docs.google.com/java/lang/Object.html)> | [**getAttributes**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getAttributes())()            Returns a map with the attributes defined on the current character. |
| int | [**getRunLimit**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getRunLimit())()            Returns the index of the first character following the run with respect to all attributes containing the current character. |
| int | [**getRunLimit**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getRunLimit(java.text.AttributedCharacterIterator.Attribute))([AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) attribute)            Returns the index of the first character following the run with respect to the given attribute containing the current character. |
| int | [**getRunLimit**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getRunLimit(java.util.Set))([Set](http://docs.google.com/java/util/Set.html)<? extends [AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)> attributes)            Returns the index of the first character following the run with respect to the given attributes containing the current character. |
| int | [**getRunStart**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getRunStart())()            Returns the index of the first character of the run with respect to all attributes containing the current character. |
| int | [**getRunStart**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getRunStart(java.text.AttributedCharacterIterator.Attribute))([AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) attribute)            Returns the index of the first character of the run with respect to the given attribute containing the current character. |
| int | [**getRunStart**](http://docs.google.com/java/text/AttributedCharacterIterator.html#getRunStart(java.util.Set))([Set](http://docs.google.com/java/util/Set.html)<? extends [AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)> attributes)            Returns the index of the first character of the run with respect to the given attributes containing the current character. |

| **Methods inherited from interface java.text.**[**CharacterIterator**](http://docs.google.com/java/text/CharacterIterator.html) |
| --- |
| [clone](http://docs.google.com/java/text/CharacterIterator.html#clone()), [current](http://docs.google.com/java/text/CharacterIterator.html#current()), [first](http://docs.google.com/java/text/CharacterIterator.html#first()), [getBeginIndex](http://docs.google.com/java/text/CharacterIterator.html#getBeginIndex()), [getEndIndex](http://docs.google.com/java/text/CharacterIterator.html#getEndIndex()), [getIndex](http://docs.google.com/java/text/CharacterIterator.html#getIndex()), [last](http://docs.google.com/java/text/CharacterIterator.html#last()), [next](http://docs.google.com/java/text/CharacterIterator.html#next()), [previous](http://docs.google.com/java/text/CharacterIterator.html#previous()), [setIndex](http://docs.google.com/java/text/CharacterIterator.html#setIndex(int)) |

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

### getRunStart

int **getRunStart**()

Returns the index of the first character of the run with respect to all attributes containing the current character.

### getRunStart

int **getRunStart**([AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) attribute)

Returns the index of the first character of the run with respect to the given attribute containing the current character.

### getRunStart

int **getRunStart**([Set](http://docs.google.com/java/util/Set.html)<? extends [AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)> attributes)

Returns the index of the first character of the run with respect to the given attributes containing the current character.

### getRunLimit

int **getRunLimit**()

Returns the index of the first character following the run with respect to all attributes containing the current character.

### getRunLimit

int **getRunLimit**([AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) attribute)

Returns the index of the first character following the run with respect to the given attribute containing the current character.

### getRunLimit

int **getRunLimit**([Set](http://docs.google.com/java/util/Set.html)<? extends [AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)> attributes)

Returns the index of the first character following the run with respect to the given attributes containing the current character.

### getAttributes

[Map](http://docs.google.com/java/util/Map.html)<[AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html),[Object](http://docs.google.com/java/lang/Object.html)> **getAttributes**()

Returns a map with the attributes defined on the current character.

### getAttribute

[Object](http://docs.google.com/java/lang/Object.html) **getAttribute**([AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) attribute)

Returns the value of the named attribute for the current character. Returns null if the attribute is not defined.

**Parameters:**attribute - the key of the attribute whose value is requested.

### getAllAttributeKeys

[Set](http://docs.google.com/java/util/Set.html)<[AttributedCharacterIterator.Attribute](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html)> **getAllAttributeKeys**()

Returns the keys of all attributes defined on the iterator's text range. The set is empty if no attributes are defined.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AttributedCharacterIterator.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/Annotation.html)   [**NEXT CLASS**](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) | [**FRAMES**](http://docs.google.com/index.html?java/text/AttributedCharacterIterator.html)    [**NO FRAMES**](http://docs.google.com/AttributedCharacterIterator.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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