| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ElementIterator.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/Element.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/FieldView.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/ElementIterator.html)    [**NO FRAMES**](http://docs.google.com/ElementIterator.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 ElementIterator

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

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

public class **ElementIterator**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Cloneable](http://docs.google.com/java/lang/Cloneable.html)

ElementIterator, as the name suggests, iteratates over the Element tree. The constructor can be invoked with either Document or an Element as an argument. If the constructor is invoked with a Document as an argument then the root of the iteration is the return value of document.getDefaultRootElement(). The iteration happens in a depth-first manner. In terms of how boundary conditions are handled: a) if next() is called before first() or current(), the root will be returned. b) next() returns null to indicate the end of the list. c) previous() returns null when the current element is the root or next() has returned null. The ElementIterator does no locking of the Element tree. This means that it does not track any changes. It is the responsibility of the user of this class, to ensure that no changes happen during element iteration. Simple usage example: public void iterate() { ElementIterator it = new ElementIterator(root); Element elem; while (true) { if ((elem = next()) != null) { // process element System.out.println("elem: " + elem.getName()); } else { break; } } }

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

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**clone**](http://docs.google.com/javax/swing/text/ElementIterator.html#clone())()            Clones the ElementIterator. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**current**](http://docs.google.com/javax/swing/text/ElementIterator.html#current())()            Fetches the current Element. |
| int | [**depth**](http://docs.google.com/javax/swing/text/ElementIterator.html#depth())()            Fetches the current depth of element tree. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**first**](http://docs.google.com/javax/swing/text/ElementIterator.html#first())()            Fetches the first element. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**next**](http://docs.google.com/javax/swing/text/ElementIterator.html#next())()            Fetches the next Element. |
| [Element](http://docs.google.com/javax/swing/text/Element.html) | [**previous**](http://docs.google.com/javax/swing/text/ElementIterator.html#previous())()            Fetches the previous Element. |

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

### ElementIterator

public **ElementIterator**([Document](http://docs.google.com/javax/swing/text/Document.html) document)

Creates a new ElementIterator. The root element is taken to get the default root element of the document.

**Parameters:**document - a Document.

### ElementIterator

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

Creates a new ElementIterator.

**Parameters:**root - the root Element.

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

### clone

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

Clones the ElementIterator.

**Overrides:**[clone](http://docs.google.com/java/lang/Object.html#clone()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a cloned ElementIterator Object.**See Also:**[Cloneable](http://docs.google.com/java/lang/Cloneable.html)

### first

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

Fetches the first element.

**Returns:**an Element.

### depth

public int **depth**()

Fetches the current depth of element tree.

**Returns:**the depth.

### current

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

Fetches the current Element.

**Returns:**element on top of the stack or null if the root element is null

### next

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

Fetches the next Element. The strategy used to locate the next element is a depth-first search.

**Returns:**the next element or null at the end of the list.

### previous

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

Fetches the previous Element. If howver the current element is the last element, or the current element is null, then null is returned.

**Returns:**previous Element if available

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ElementIterator.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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