| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HTMLWriter.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/html/HTMLFrameHyperlinkEvent.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/html/ImageView.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/html/HTMLWriter.html)    [**NO FRAMES**](http://docs.google.com/HTMLWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

## **javax.swing.text.html**

Class HTMLWriter

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

public class **HTMLWriter**extends [AbstractWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html)

This is a writer for HTMLDocuments.

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

| **Fields inherited from class javax.swing.text.**[**AbstractWriter**](http://docs.google.com/javax/swing/text/AbstractWriter.html) |
| --- |
| [NEWLINE](http://docs.google.com/javax/swing/text/AbstractWriter.html#NEWLINE) |

| **Constructor Summary** | |
| --- | --- |
| [**HTMLWriter**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#HTMLWriter(java.io.Writer,%20javax.swing.text.html.HTMLDocument))([Writer](http://docs.google.com/java/io/Writer.html) w, [HTMLDocument](http://docs.google.com/javax/swing/text/html/HTMLDocument.html) doc)            Creates a new HTMLWriter. |
| [**HTMLWriter**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#HTMLWriter(java.io.Writer,%20javax.swing.text.html.HTMLDocument,%20int,%20int))([Writer](http://docs.google.com/java/io/Writer.html) w, [HTMLDocument](http://docs.google.com/javax/swing/text/html/HTMLDocument.html) doc, int pos, int len)            Creates a new HTMLWriter. |

| **Method Summary** | |
| --- | --- |
| protected  void | [**closeOutUnwantedEmbeddedTags**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#closeOutUnwantedEmbeddedTags(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Searches the attribute set and for each tag that is stored in the tag vector. |
| protected  void | [**comment**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#comment(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out comments. |
| protected  void | [**emptyTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#emptyTag(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out all empty elements (all tags that have no corresponding end tag). |
| protected  void | [**endTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#endTag(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out an end tag for the element. |
| protected  boolean | [**isBlockTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#isBlockTag(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Determines if the HTML.Tag associated with the element is a block tag. |
| protected  boolean | [**matchNameAttribute**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#matchNameAttribute(javax.swing.text.AttributeSet,%20javax.swing.text.html.HTML.Tag))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr, [HTML.Tag](http://docs.google.com/javax/swing/text/html/HTML.Tag.html) tag)            Returns true if the StyleConstants.NameAttribute is equal to the tag that is passed in as a parameter. |
| protected  void | [**output**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#output(char%5B%5D,%20int,%20int))(char[] chars, int start, int length)            This method is overriden to map any character entities, such as < to <. |
| protected  void | [**selectContent**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#selectContent(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out the content of the SELECT form element. |
| protected  void | [**startTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#startTag(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out a start tag for the element. |
| protected  boolean | [**synthesizedElement**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#synthesizedElement(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Returns true if the element is a synthesized element. |
| protected  void | [**text**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#text(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out text. |
| protected  void | [**textAreaContent**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#textAreaContent(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out text that is contained in a TEXTAREA form element. |
| void | [**write**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#write())()            Iterates over the Element tree and controls the writing out of all the tags and its attributes. |
| protected  void | [**writeAttributes**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeAttributes(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out the attribute set. |
| protected  void | [**writeEmbeddedTags**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeEmbeddedTags(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Searches for embedded tags in the AttributeSet and writes them out. |
| protected  void | [**writeLineSeparator**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeLineSeparator())()            Writes the line separator. |
| protected  void | [**writeOption**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeOption(javax.swing.text.html.Option))([Option](http://docs.google.com/javax/swing/text/html/Option.html) option)            Writes out the content of the Option form element. |

| **Methods inherited from class javax.swing.text.**[**AbstractWriter**](http://docs.google.com/javax/swing/text/AbstractWriter.html) |
| --- |
| [decrIndent](http://docs.google.com/javax/swing/text/AbstractWriter.html#decrIndent()), [getCanWrapLines](http://docs.google.com/javax/swing/text/AbstractWriter.html#getCanWrapLines()), [getCurrentLineLength](http://docs.google.com/javax/swing/text/AbstractWriter.html#getCurrentLineLength()), [getDocument](http://docs.google.com/javax/swing/text/AbstractWriter.html#getDocument()), [getElementIterator](http://docs.google.com/javax/swing/text/AbstractWriter.html#getElementIterator()), [getEndOffset](http://docs.google.com/javax/swing/text/AbstractWriter.html#getEndOffset()), [getIndentLevel](http://docs.google.com/javax/swing/text/AbstractWriter.html#getIndentLevel()), [getIndentSpace](http://docs.google.com/javax/swing/text/AbstractWriter.html#getIndentSpace()), [getLineLength](http://docs.google.com/javax/swing/text/AbstractWriter.html#getLineLength()), [getLineSeparator](http://docs.google.com/javax/swing/text/AbstractWriter.html#getLineSeparator()), [getStartOffset](http://docs.google.com/javax/swing/text/AbstractWriter.html#getStartOffset()), [getText](http://docs.google.com/javax/swing/text/AbstractWriter.html#getText(javax.swing.text.Element)), [getWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html#getWriter()), [incrIndent](http://docs.google.com/javax/swing/text/AbstractWriter.html#incrIndent()), [indent](http://docs.google.com/javax/swing/text/AbstractWriter.html#indent()), [inRange](http://docs.google.com/javax/swing/text/AbstractWriter.html#inRange(javax.swing.text.Element)), [isLineEmpty](http://docs.google.com/javax/swing/text/AbstractWriter.html#isLineEmpty()), [setCanWrapLines](http://docs.google.com/javax/swing/text/AbstractWriter.html#setCanWrapLines(boolean)), [setCurrentLineLength](http://docs.google.com/javax/swing/text/AbstractWriter.html#setCurrentLineLength(int)), [setIndentSpace](http://docs.google.com/javax/swing/text/AbstractWriter.html#setIndentSpace(int)), [setLineLength](http://docs.google.com/javax/swing/text/AbstractWriter.html#setLineLength(int)), [setLineSeparator](http://docs.google.com/javax/swing/text/AbstractWriter.html#setLineSeparator(java.lang.String)), [write](http://docs.google.com/javax/swing/text/AbstractWriter.html#write(char)), [write](http://docs.google.com/javax/swing/text/AbstractWriter.html#write(char%5B%5D,%20int,%20int)), [write](http://docs.google.com/javax/swing/text/AbstractWriter.html#write(java.lang.String)) |

| **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** |
| --- |

### HTMLWriter

public **HTMLWriter**([Writer](http://docs.google.com/java/io/Writer.html) w,  
 [HTMLDocument](http://docs.google.com/javax/swing/text/html/HTMLDocument.html) doc)

Creates a new HTMLWriter.

**Parameters:**w - a Writerdoc - an HTMLDocument

### HTMLWriter

public **HTMLWriter**([Writer](http://docs.google.com/java/io/Writer.html) w,  
 [HTMLDocument](http://docs.google.com/javax/swing/text/html/HTMLDocument.html) doc,  
 int pos,  
 int len)

Creates a new HTMLWriter.

**Parameters:**w - a Writerdoc - an HTMLDocumentpos - the document location from which to fetch the contentlen - the amount to write out

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

### write

public void **write**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Iterates over the Element tree and controls the writing out of all the tags and its attributes.

**Specified by:**[write](http://docs.google.com/javax/swing/text/AbstractWriter.html#write()) in class [AbstractWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if pos represents an invalid location within the document.

### writeAttributes

protected void **writeAttributes**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes out the attribute set. Ignores all attributes with a key of type HTML.Tag, attributes with a key of type StyleConstants, and attributes with a key of type HTML.Attribute.ENDTAG.

**Overrides:**[writeAttributes](http://docs.google.com/javax/swing/text/AbstractWriter.html#writeAttributes(javax.swing.text.AttributeSet)) in class [AbstractWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html) **Parameters:**attr - an AttributeSet **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error

### emptyTag

protected void **emptyTag**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Writes out all empty elements (all tags that have no corresponding end tag).

**Parameters:**elem - an Element **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if pos represents an invalid location within the document.

### isBlockTag

protected boolean **isBlockTag**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)

Determines if the HTML.Tag associated with the element is a block tag.

**Parameters:**attr - an AttributeSet **Returns:**true if tag is block tag, false otherwise.

### startTag

protected void **startTag**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Writes out a start tag for the element. Ignores all synthesized elements.

**Parameters:**elem - an Element **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

### textAreaContent

protected void **textAreaContent**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Writes out text that is contained in a TEXTAREA form element.

**Parameters:**attr - an AttributeSet **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if pos represents an invalid location within the document.

### text

protected void **text**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Writes out text. If a range is specified when the constructor is invoked, then only the appropriate range of text is written out.

**Overrides:**[text](http://docs.google.com/javax/swing/text/AbstractWriter.html#text(javax.swing.text.Element)) in class [AbstractWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html) **Parameters:**elem - an Element **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if pos represents an invalid location within the document.

### selectContent

protected void **selectContent**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes out the content of the SELECT form element.

**Parameters:**attr - the AttributeSet associated with the form element **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error

### writeOption

protected void **writeOption**([Option](http://docs.google.com/javax/swing/text/html/Option.html) option)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes out the content of the Option form element.

**Parameters:**option - an Option **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error

### endTag

protected void **endTag**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes out an end tag for the element.

**Parameters:**elem - an Element **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error

### comment

protected void **comment**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Writes out comments.

**Parameters:**elem - an Element **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - if pos represents an invalid location within the document.

### synthesizedElement

protected boolean **synthesizedElement**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)

Returns true if the element is a synthesized element. Currently we are only testing for the p-implied tag.

### matchNameAttribute

protected boolean **matchNameAttribute**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr,  
 [HTML.Tag](http://docs.google.com/javax/swing/text/html/HTML.Tag.html) tag)

Returns true if the StyleConstants.NameAttribute is equal to the tag that is passed in as a parameter.

### writeEmbeddedTags

protected void **writeEmbeddedTags**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Searches for embedded tags in the AttributeSet and writes them out. It also stores these tags in a vector so that when appropriate the corresponding end tags can be written out.

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error

### closeOutUnwantedEmbeddedTags

protected void **closeOutUnwantedEmbeddedTags**([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Searches the attribute set and for each tag that is stored in the tag vector. If the tag isnt found, then the tag is removed from the vector and a corresponding end tag is written out.

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - on any I/O error

### writeLineSeparator

protected void **writeLineSeparator**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes the line separator. This is overriden to make sure we don't replace the newline content in case it is outside normal ascii.

**Overrides:**[writeLineSeparator](http://docs.google.com/javax/swing/text/AbstractWriter.html#writeLineSeparator()) in class [AbstractWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html)**Since:** 1.3

### output

protected void **output**(char[] chars,  
 int start,  
 int length)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

This method is overriden to map any character entities, such as < to <. super.output will be invoked to write the content.

**Overrides:**[output](http://docs.google.com/javax/swing/text/AbstractWriter.html#output(char%5B%5D,%20int,%20int)) in class [AbstractWriter](http://docs.google.com/javax/swing/text/AbstractWriter.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html)**Since:** 1.3

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