

TeXDoclet Java Documentation
Created with Javadoc TeXDoclet Doclet

Greg Wonderly

Søren Caspersen

Stefan Marx

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Class Hierarchy

Classes

- `java.lang.Object`
 - `com.sun.javadoc.Doclet`
 - `org.stfm.texdoclet.TeXDoclet` (in 1.10, page 19)
 - `javax.swing.text.html.HTMLEditorKit.ParserCallback`
 - `org.stfm.texdoclet.HTMLtoLaTeXBackEnd` (in 1.4, page 6)
 - `org.stfm.texdoclet.ClassHierachy` (in 1.2, page 4)
 - `org.stfm.texdoclet.HelpOutput` (in 1.3, page 5)
 - `org.stfm.texdoclet.InterfaceHierachy` (in 1.5, page 8)
 - `org.stfm.texdoclet.MarkdownTest` (in 1.6, page 9)
 - `org.stfm.texdoclet.Package` (in 1.7, page 13)
 - `org.stfm.texdoclet.TableInfo` (in 1.8, page 15)
 - `org.stfm.texdoclet.TestFilter` (in 1.9, page 18)

Interfaces

- `org.stfm.texdoclet.ClassFilter` (in 1.1, page 4)

Chapter 1

Package org.stfm.texdoclet

<i>Package Contents</i>	<i>Page</i>
Interfaces	
ClassFilter	4
This interface can be implemented and a class name provided to the Doclet to filter which classes are and are not included in the output document.	
Classes	
ClassHierachy	4
Manages and prints a class hierarchy.	
HelpOutput	5
HTMLtoLaTeXBackEnd	6
This class implements a <code>ParserCallback</code> that translates HTML to the corresponding \LaTeX .	
InterfaceHierachy	8
Manages and prints a interface hierarchy.	
MarkdownTest	9
This class is just for testing the Mardown processing output.	
Package	13
This class is used to manage the contents of a Java package.	
TableInfo	15
This class provides support for converting HTML tables into \LaTeX tables.	
TestFilter	18
This class filters out classes beginning with "Test" when applied to the Doclet.	
TeXDoclet	19
This class provides a Java javadoc Doclet which generates a $\LaTeX 2\epsilon$ document out of the java classes that it is used on.	

This doclet is based on the doclet originally created by Greg Wonderly of [C2 technologies Inc.](http://www.c2technologies.com) and its revision by [XO Software](http://www.xo.com). The project of Greg Wonderly is available here : <http://java.net/projects/texdoclet>.

1.1 Interface ClassFilter

This interface can be implemented and a class name provided to the Doclet to filter which classes are and are not included in the output document.

1.1.1 Declaration

```
public interface ClassFilter
```

1.1.2 All known subinterfaces

TestFilter (in 1.9, page 18)

1.1.3 All classes known to implement interface

TestFilter (in 1.9, page 18)

1.1.4 Method summary

[includeClass\(ClassDoc\)](#) Filters the ClassDoc passed.

1.1.5 Methods

- **includeClass**

```
boolean includeClass(com.sun.javadoc.ClassDoc cd)
```

- **Description**

Filters the ClassDoc passed. If true is returned, the passed class will be included into the output. If false is returned, this document will not be included.

1.2 Class ClassHierachy

Manages and prints a class hierarchy. Use `add` to add another class to the hierarchy. Use `printTree` to print the corresponding L^AT_EX.

1.2.1 Declaration

```
public class ClassHierachy
extends java.lang.Object
```

1.2.2 Field summary

[root](#)

1.2.3 Constructor summary

[ClassHierachy\(\)](#) Creates new ClassHierachy

1.2.4 Method summary

add(ClassDoc) Adds another class to the hierarchy

printBranch(RootDoc, SortedMap, double, double) Prints a branch of the tree.

printTree(RootDoc, double) Prints the L^AT_EX corresponding to the tree.

1.2.5 Fields

- public java.util.SortedMap **root**

1.2.6 Constructors

- **ClassHierarchy**
public **ClassHierarchy()**
 - **Description**
Creates new **ClassHierarchy**

1.2.7 Methods

- **add**
protected java.util.SortedMap **add**(com.sun.javadoc.ClassDoc **cls**)
 - **Description**
Adds another class to the hierarchy
- **printBranch**
protected void **printBranch**(com.sun.javadoc.RootDoc **rootDoc**, java.util.SortedMap **map**, double **indent**, double **overviewindent**)
 - **Description**
Prints a branch of the tree. The branch is printed using `TeXDoclet.os`.
- **printTree**
public void **printTree**(com.sun.javadoc.RootDoc **rootDoc**, double **overviewindent**)
 - **Description**
Prints the L^AT_EX corresponding to the tree. The tree is printed using `TeXDoclet.os`.

1.3 Class HelpOutput

1.3.1 Declaration

```
public class HelpOutput
extends java.lang.Object
```

1.3.2 Constructor summary

[HelpOutput\(\)](#)

1.3.3 Method summary

[printHelp\(\)](#)

1.3.4 Constructors

- **HelpOutput**
public **HelpOutput()**

1.3.5 Methods

- **printHelp**
protected static void **printHelp()**

1.4 Class HTMLtoLaTeXBackEnd

This class implements a `ParserCallback` that translates HTML to the corresponding \LaTeX . Not all tags are processed but the most common are.

HTML links to files located in the `doc-files` directory (`appendix_a.html`, `appendix_b.txt`) are transformed to references to the appendix, whereby the referenced files themselves are included in the appendix.

1.4.1 See also

- [javax.swing.text.html.parser.ParserDelegator](#)

1.4.2 Declaration

```
public class HTMLtoLaTeXBackEnd
extends javax.swing.text.html.HTMLEditorKit.ParserCallback
```

1.4.3 Constructor summary

[HTMLtoLaTeXBackEnd\(StringBuffer\)](#) Constructs a new instance.

1.4.4 Method summary

[fixText\(String\)](#) Converts a HTML string into \LaTeX using an instance of `HTMLtoLaTeXBackEnd`.

[handleEndTag\(HTML.Tag, int\)](#) This method handles HTML tags that mark an ending (e.g.

[handleSimpleTag\(HTML.Tag, MutableAttributeSet, int\)](#) This method handles simple HTML tags (e.g.

handleStartTag(HTML.Tag, MutableAttributeSet, int) This method handles HTML tags that mark a beginning (e.g. **handleText(char[], int)** This method handles all other text.

1.4.5 Constructors

- **HTMLtoLaTeXBackEnd**

```
public HTMLtoLaTeXBackEnd(java.lang.StringBuffer ret)
```

 - **Description**
Constructs a new instance.
 - **Parameters**
 - * `StringBuffer` – The `StringBuffer` where the translated HTML is appended.

1.4.6 Methods

- **fixText**

```
public static java.lang.String fixText(java.lang.String str)
```

 - **Description**
Converts a HTML string into L^AT_EX using an instance of `HTMLtoLaTeXBackEnd`.
- **handleEndTag**

```
public void handleEndTag(javax.swing.text.html.HTML.Tag tag, int pos)
```

 - **Description**
This method handles HTML tags that mark an ending (e.g. `</P>`-tags). It is called by the parser whenever such a tag is encountered.
- **handleSimpleTag**

```
public void handleSimpleTag(javax.swing.text.html.HTML.Tag tag,
    javax.swing.text.MutableAttributeSet attrSet, int pos)
```

 - **Description**
This method handles simple HTML tags (e.g. `<HR>`-tags). It is called by the parser whenever such a tag is encountered.
- **handleStartTag**

```
public void handleStartTag(javax.swing.text.html.HTML.Tag tag,
    javax.swing.text.MutableAttributeSet attrSet, int pos)
```

 - **Description**
This method handles HTML tags that mark a beginning (e.g. `<P>`-tags). It is called by the parser whenever such a tag is encountered.
- **handleText**

```
public void handleText(char[] data, int pos)
```

 - **Description**
This method handles all other text.

1.4.7 Members inherited from class `HTMLToolkit.ParserCallback`

`javax.swing.text.html.HTMLToolkit.ParserCallback`
`flush`, `handleComment`, `handleEndOfLineString`, `handleEndTag`, `handleError`, `handleSimpleTag`,
`handleStartTag`, `handleText`, `IMPLIED`

1.5 Class `InterfaceHierachy`

Manages and prints a interface hierarchy. Use `add` to add another interface to the hierarchy. Use `printTree` to print the corresponding `LATEX`.

1.5.1 Declaration

```
public class InterfaceHierachy
extends java.lang.Object
```

1.5.2 Field summary

[root](#)

1.5.3 Constructor summary

[InterfaceHierachy\(\)](#) Creates new `InterfaceHierachy`

1.5.4 Method summary

[add\(ClassDoc\)](#) Adds another interface to the hierachy
[printBranch\(RootDoc, SortedMap, double, double\)](#) Prints a branch of the tree.
[printTree\(RootDoc, double\)](#) Prints the `LATEX` corresponding to the tree.

1.5.5 Fields

- `public java.util.SortedMap root`

1.5.6 Constructors

- **InterfaceHierachy**
`public InterfaceHierachy()`
 - **Description**
Creates new `InterfaceHierachy`

1.5.7 Methods

- **add**
`protected java.util.SortedMap add(com.sun.javadoc.ClassDoc cls)`

- **Description**

Adds another interface to the hierachy

- **printBranch**

```
protected void printBranch(com.sun.javadoc.RootDoc rootDoc,
    java.util.SortedMap map, double indent, double overviewindent)
```

- **Description**

Prints a branch of the tree. The branch is printed using `TeXDoclet.os`.

- **printTree**

```
public void printTree(com.sun.javadoc.RootDoc rootDoc, double
    overviewindent)
```

- **Description**

Prints the \LaTeX corresponding to the tree. The tree is printed using `TeXDoclet.os`.

1.6 Class MarkdownTest

This class is just for testing the Markdown processing output.

a) Some text

Markdown code :

```
some text some text some text some text some text some text some
text some text some text some text some text some text some text
some text some text some text with 2 ending spaces
```

```
text some text some text some text some text some text some text
some text some text some text some text some text some text some text
```

```
text some text some text some text some text some text some text
some text some text
```

results in :

some text some text some text some text some text some text some text some text some text some text some text some text some text some text some text some text some text with 2 ending spaces

text some text some text some text some text some text some text some text some text some text some text some text some text some text

text some text some text some text some text some text some text some text some text some text

b) Lists

Markdown code :

```
unsorted :
```

- item1
 - item11
 - item12
- item2

or :

- + item1
 - + item12
 - + item13

sorted :

1. item1
 1. item11
 2. item12
2. item2
 - item21
 - item22
3. item3

lists with paragraphs :

1. some text some text some text some text some text some text some text some text some text some text some text

some text some text some text some text some text some text

2. some text some text some text some text some text some text

results in :

unsorted :

- item1
 - item11
 - item12
- item2

or :

- item1
 - item12
 - * item13

sorted :

1. item1

- (a) item11
 - (b) item12
2. item2
 - item21
 - item22
 3. item3

lists with paragraphs :

1. some text some text some text some text some text some text some text some text some text some text
 some text some text some text some text some text some text
2. some text some text some text some text some text some text

c) Blockquotes

Markdown code :

```

some text some text some text some text some text some text

> some quoting text
>
> > some nested quoting text
>
> some quoting text
>
> ##### header in blockquote
>
> a list in blockquote :
>
> 1. item1
> 2. item2
>   1. item21
>   2. item22
> 3. item3
>
> some quoting text
>
>   code in blockquote

```

results in :

```

some text some text some text some text some text some text
some quoting text
some nested quoting text
some quoting text

```

header in blockquote

a list in blockquote :

1. item1
2. item2
 - (a) item21
 - (b) item22
3. item3

some quoting text
code in blockquote

d) Preformatted text

Markdown code :

some preformatted :

```
code line 1
code line 2
```

results in :

```
some preformatted :
code line 1
code line 2
```

e) Horizontal rules

Markdown code :

```
***
```

results in :

f) Emphasis

Markdown code :

```
*single asterisks* (em)
```

```
._single underscores._ (em)
```

```
**double asterisks** (strong)
```

```
__double underscores__ (strong)
```

results in :

single asterisks (em)
single underscores (em)
double asterisks (strong)
double underscores (strong)

h) Code

Markdown code :

```
some code : 'TeXDoclet extends Doclet' and ''There is a literal backtick (')
here.''
```

results in :

```
some code : TeXDoclet extends Doclet and There is a literal backtick (') here.
```

1.6.1 Declaration

```
public class MarkdownTest
extends java.lang.Object
```

1.6.2 Constructor summary

[MarkdownTest\(\)](#)

1.6.3 Constructors

- **MarkdownTest**
public **MarkdownTest()**

1.7 Class Package

This class is used to manage the contents of a Java package. It accepts `ClassDoc` objects and examines them and groups them according to whether they are classes, interfaces, exceptions or errors. The accumulated `Vectors` can then be processed to get to all of the elements of the package that fall into each category. If needed the classes, interfaces, exceptions and errors can be sorted using the `sort` method.

1.7.1 See also

- [Package.sort\(\)](#) (in 1.7.8, page 15)

1.7.2 Declaration

```
public class Package
extends java.lang.Object
```

1.7.3 Field summary

classes The classes this package has in it
errors The errors this package has in it
exceptions The exceptions this package has in it
interfaces The interfaces this package has in it
pkg The name of the package this object is for
pkgDoc

1.7.4 Constructor summary

Package(String, PackageDoc) Construct a new object corresponding to the passed package name.

1.7.5 Method summary

addElement(ClassDoc) Adds a ClassDoc element to this package.
sort() Sorts the vectors of classes, interfaces exceptions and errors.

1.7.6 Fields

- protected com.sun.javadoc.PackageDoc **pkgDoc**
- protected java.lang.String **pkg**
 - The name of the package this object is for
- protected java.util.Vector **classes**
 - The classes this package has in it
- protected java.util.Vector **interfaces**
 - The interfaces this package has in it
- protected java.util.Vector **exceptions**
 - The exceptions this package has in it
- protected java.util.Vector **errors**
 - The errors this package has in it

1.7.7 Constructors

- **Package**
public **Package**(java.lang.String **pkg**, com.sun.javadoc.PackageDoc **doc**)
 - **Description**
Construct a new object corresponding to the passed package name.
 - **Parameters**
 - * **pkg** – the package name to use

1.7.8 Methods

- **addElement**

```
public void addElement(com.sun.javadoc.ClassDoc cd)
```

- **Description**

- Adds a ClassDoc element to this package.

- **Parameters**

- * cd – the object to add to this package

- **sort**

```
public void sort()
```

- **Description**

- Sorts the vectors of classes, interfaces exceptions and errors.

1.8 Class TableInfo

This class provides support for converting HTML tables into \LaTeX tables. Some of the things **NOT** implemented include the following:

- valign attributes are not processed, but align= is.
- rowspan attributes are not processed, but colspan= is.
- the argument to border= in the table tag is not used to control line size

Here is an example table.

Column 1 Heading	Column two heading	Column three heading
data	Span two columns	
<i>more data</i>	right	left

Column one Heading	Column two heading	Column three heading
data	Span two columns	
<i>more data</i>	right	left
1	first	line
2	second	line
3	third	line
4	fourth	line

1.8.1 Declaration

```
public class TableInfo
extends java.lang.Object
```

1.8.2 Constructor summary

[TableInfo\(\)](#)

1.8.3 Method summary

[endCol\(\)](#) Ends the current column.

[endRow\(\)](#) Ends the current row.

[endTable\(\)](#) Ends the table, closing the last row as needed

[startCol\(MutableAttributeSet\)](#) Starts a new column, possibly closing the current column if needed

[startHeadCol\(MutableAttributeSet\)](#) Starts a new Heading column, possibly closing the current column if needed.

[startRow\(MutableAttributeSet\)](#) Starts a new row, possibly closing the current row if needed

`startTable(StringBuffer, MutableAttributeSet)` Constructs a new table object and starts processing of the table by scanning the `<table>` passed to count columns.

1.8.4 Constructors

- **TableInfo**
`public TableInfo()`

1.8.5 Methods

- **endCol**
`public void endCol()`
 - **Description**
Ends the current column.
 - **Parameters**
 - * `ret` – The output buffer to put $\text{\LaTeX} 2_{\epsilon}$ into.
- **endRow**
`public void endRow()`
 - **Description**
Ends the current row.
 - **Parameters**
 - * `ret` – The output buffer to put $\text{\LaTeX} 2_{\epsilon}$ into.
- **endTable**
`public java.lang.StringBuffer endTable()`
 - **Description**
Ends the table, closing the last row as needed
 - **Parameters**
 - * `ret` – The output buffer to put $\text{\LaTeX} 2_{\epsilon}$ into.
- **startCol**
`public void startCol(javax.swing.text.MutableAttributeSet attrSet)`
 - **Description**
Starts a new column, possibly closing the current column if needed
 - **Parameters**
 - * `ret` – The output buffer to put $\text{\LaTeX} 2_{\epsilon}$ into.
 - * `p` – the properties from the `<td>` tag
- **startHeadCol**
`public void startHeadCol(javax.swing.text.MutableAttributeSet attrSet)`

- **Description**

Starts a new Heading column, possibly closing the current column if needed. A Heading column has a Bold Face font directive around it.

- **Parameters**

- * `ret` – The output buffer to put $\text{\LaTeX} 2_{\epsilon}$ into.
- * `p` – The properties from the `<th>` tag

- **startRow**

```
public void startRow(javax.swing.text.MutableAttributeSet attrSet)
```

- **Description**

Starts a new row, possibly closing the current row if needed

- **Parameters**

- * `ret` – The output buffer to put \LaTeX into.
- * `p` – The properties from the `<tr>` tag

- **startTable**

```
public java.lang.StringBuffer startTable(java.lang.StringBuffer org,
    javax.swing.text.MutableAttributeSet attrSet)
```

- **Description**

Constructs a new table object and starts processing of the table by scanning the `<table>` passed to count columns.

- **Parameters**

- * `p` – properties found on the `<table>` tag
- * `ret` – the result buffer that will contain the output
- * `table` – the input string that has the entire table definition in it.
- * `off` – the offset into `<table>` where scanning should start

1.9 Class TestFilter

This class filters out classes beginning with "Test" when applied to the Doclet.

1.9.1 Declaration

```
public class TestFilter
    extends java.lang.Object
    implements ClassFilter
```

1.9.2 Constructor summary

[TestFilter\(\)](#)

1.9.3 Method summary

[includeClass\(ClassDoc\)](#) Returns false if class name starts with "Test".

1.9.4 Constructors

- **TestFilter**

```
public TestFilter()
```

1.9.5 Methods

- **includeClass**

```
public boolean includeClass(com.sun.javadoc.ClassDoc cd)
```

 - **Description**
Returns false if class name starts with "Test".

1.10 Class TeXDoclet

This class provides a Java javadoc Doclet which generates a $\text{\LaTeX} 2_{\epsilon}$ document out of the java classes that it is used on. This is convenient for creating printable documentation complete with cross reference information.

Supported HTML tags

`<a>` including an additional attribut "doprinturl". Since the output of the doclet should be printable, the href attribut of tags is printed in parentheses following the link if attribut "doprinturl" is set. Sometimes this is undesirable, and omitting "doprinturl" attribut will prevent this.

`<dl>` with the associated `<dt><dd></dl>` tags

`<p>` but not `align=center...yet`

`
` but not `clear=xxx`

`<table>` including all the associated `<td><th><tr></td></th></tr>`

`` ordered lists

`` unordered lists

`` font coloring

`<pre>` preformatted text

`<code>` fixed point fonts

`<i>` italicized fonts

`` bold fonts

`<sub>` subscript

`<sup>` superscript

<center> center

 image located in java sources ()

1. example converted from JPG: (image file not found)
2. example converted from GIF: (image file not found)

 image located in the www: (see image at <http://upload.wikimedia.org/wikipedia/commons/9/92/LaTeX...>)

Extra tags

<TEX>

A new tag is defined: <TEX>. This tag is useful for passing T_EX code directly to the T_EX compiler. The following code:

```
<TEX txt="\[ F\left( x \right) = \int_{-\infty}^x \frac{1}{\sqrt{2\pi}} e^{-\frac{z^2}{2}} dz \]">
<BR><BR><B>This alternative text will appear if the javadoc/HTML is parsed
by any other doclet/browser</B><BR><BR></TEX>
```

will produce the following result:

$$F(x) = \int_{-\infty}^x \frac{1}{\sqrt{2\pi}} e^{-\frac{z^2}{2}} dz$$

The "alternative" text is ignored by the TeXDoclet, but useful if you want to use both the TeXDoclet and a regular HTML based doclet.

<PRE format="markdown">

Instead of writing your java documentation in often hard to read HTML code you can make use of **Markdown** syntax. The HTML <PRE> tag is used therefore to prevent your IDE from automatically reordering your Markdown documentation text. Markdown parsing is based on the **Pegdown** implementation. The following code :

```
<PRE format="markdown">

some text some text some text some text some text some text some text

#### Lists

- item1
  1. item11
  2. item12
- item1

#### Text formatting
```

`__emphasis__` and `__strong__` and some 'code' :

```
code line 1
code line 2
```

some text some text some text some text some text some text some text

<PRE>

will produce the following :

some text some text some text some text some text some text some text

Lists

- item1
 1. item11
 2. item12
- item1

Text formatting

emphasis and **strong** and some code :

```
code line 1
code line 2
```

some text some text some text some text some text some text some text

1.10.1 See also

- [HTMLtoLaTeXBackEnd](#) (in 1.4, page 6)
- [TeXDoclet.start\(RootDoc\)](#) (in 1.10.8, page 23)

1.10.2 Declaration

```
public class TeXDoclet
  extends com.sun.javadoc.Doclet
```

1.10.3 Field summary

```
BOLD
CHAPTER_LEVEL
ITALIC
os Writer for writing to output file
SECTION_LEVEL
SUBSECTION_LEVEL
TRUETYPE
```

1.10.4 Constructor summary

`TeXDoclet()`

1.10.5 Method summary

`finish()`

`init()`

`initSections()`

`main(String[])`

`optionLength(String)` Returns how many arguments would be consumed if `option` is a recognized option.

`start(RootDoc)` Called by the framework to format the entire document

`validOptions(String[], DocErrorReporter)` Checks the passed options and their arguments for validity.

1.10.6 Fields

- `public static final java.lang.String SECTION_LEVEL`
- `public static final java.lang.String CHAPTER_LEVEL`
- `public static final java.lang.String SUBSECTION_LEVEL`
- `public static final java.lang.String BOLD`
- `public static final java.lang.String TRUETYPE`
- `public static final java.lang.String ITALIC`
- `public static java.io.PrintWriter os`
 - Writer for writing to output file

1.10.7 Constructors

- `TeXDoclet`
`public TeXDoclet()`

1.10.8 Methods

- `finish`
`public static void finish()`
- `init`
`public static void init()`
- `initSections`
`public static void initSections()`
- `main`
`public static void main(java.lang.String[] args)`

- **optionLength**

```
public static int optionLength(java.lang.String option)
```

- **Description**

Returns how many arguments would be consumed if `option` is a recognized option.

- **Parameters**

- * `option` – the option to check

- **start**

```
public static boolean start(com.sun.javadoc.RootDoc root)
```

- **Description**

Called by the framework to format the entire document

- **Parameters**

- * `root` – the root of the starting document

- **validOptions**

```
public static boolean validOptions(java.lang.String[] [] args,  
com.sun.javadoc.DocErrorReporter err)
```

- **Description**

Checks the passed options and their arguments for validity.

- **Parameters**

- * `args` – the arguments to check

- * `err` – the interface to use for reporting errors

1.10.9 Members inherited from class `Doclet`

`com.sun.javadoc.Doclet`

`languageVersion`, `optionLength`, `start`, `validOptions`