MarkdownDoc

User Guide

Version: 1.2.5

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¹ MarkdownDoc User Guide

_{1.1} Introduction

MarkdownDoc is a tool that basically does what the name sounds like. My intention with this tool was to be able to document my java opensource tools in markdown and be able to generate both html and PDF from it using a maven plugin.

So why not use mavens site plugin which does support markdown? Since maven3 the site plugin is not what it used to be and these days generating a whole site for your project seems a bit much. Both Bitbucket and GitHub supports markdown documentation right off in a nice and easy way. I want to choose where to put my documentation (ok, most locations in maven can be configured) and I also had the following requirements:

- Be able to generate one PDF document from a whole collection of separate markdown documents so that I can spread them out in different subproject for multi maven project projects. If you are reading this in PDF format this PDF have been put together from multiple sources.
- Be able to generate a table of contents and a title page.
- I just wanted to do it my way OK! :-)

It does also provide a java -jar executable variant. The main functionality is available as a library.

1.1.1 Version history

1.1.1.1 1.2.2

Added support for to be able to indent text. This is one more exception to no html passtrhough.

1.1.1.2 **1.2.3**

If image paths are not absolute and not http referenced then they are now looked for relative to the source markdown file first, and then the are looked for relative to the result file as before. This makes it easier to generate a big document for a whole project containing several subproject with local makdown documents and referenced images. The image reference can still be relative to the subproject local markdown file.

11131.2.4

Added *makeFileLinksRelativeTo* option for HTMLGenerator and MarkdownGenerator mostly to be able to manipulate *file*: references to images in the generated result so that the image paths still work in source when editing with a markdown tool and is still correct when generated to a different path.

1.1.1.4 **1.2.5**

Added *parserOptions* now used by JavadocParser to markdown parse javadoc comments if markdownJavadoc=true is provided. The Parser API is thus also updated to take a Properties object for the parser options.

1.1.2 How markdown is MarkdownDoc?

Well, it implements the "specification" as documented on daringfireball.net. This specification however is not extremely exact so there might be some differences.

The known (and intentional) differences are:

No HMTL pass-through! Well, there is a small exception to that. HTML comments are passed along. Mostly because
there is no markdown comment format and I wanted to be able to put comments in my documents. " " is also
passed through to create indents that are not code blocks. The reason for no HTML pass-through is that

MarkdownDoc takes it directly from markdown to PDF without any HTML rendering in between. The main purpose of this tool is to write documentation not generate HTML sites.

- Escaping with '\'. In MarkdownDoc you can escape any character with \ and it will be passed through as is without being acted on if it has markdown meaning.
- No entity encoding of email addresses.
- No multiple block quote levels (as of now).

1.2 File specifications

With both the maven plugin and the command line execution jar file you can specify a set of files to use as input. These are basically a comma separated list of files, but with the following additions:

/my/path

All files in the directory pointed to by the path.

/my/path/**

All files in the directory pointed to by the path and sub directories.

/my/path/**/regexp pattern

All files matching the pattern in the directory pointed to by the path and sub directories.

/my/path/regexp pattern

All files matching the pattern in the directory pointed to by the path.

/my/path/fileset.fs

The above rules are applied to all file specifications in files having the .fs extension. # are comment lines within .fs files.

2 Maven Plugin

The maven plugin is rather straight forward. It has 3 sets of configuration structures, one common and one for each generator.

If you dont what to checkout and build this code, add the following to your pom:

to have maven download it from my repository.

2.1 generatorOptions

There is a config section that is common to all generators and specifys which generator to run and what input files to include. The following example is from the generation of this manual:

The current valid argument for <generator>...</generator> are pdf, html, and md.

The input paths are comma separated and are always relative to the root of the maven project. To clarify that, for a multi module maven build it is always the top root with the top pom that is the root even if you start the build at a lower level. This root is resolved by starting at \${basedir} and going up until the parent directory does not have a pom. I have found no way to let maven tell me this path.

The paths can have wildcards in form of regular expressions for the file names. There is also a special directory name

** that means any level of subdirectories.

All the input paths are parsed into the same document model that then gets passed to the generator. They are parsed in the order they are specified. When it comes to wildcards it is hard to say which order they will be in. It might differ on different platforms.

If you are wondering about the .mdpart extensions above it is just to hide them from GitHub. They are just very small header lines that I inject to the PDF document that I don't want in the main parts of the documentation since they

are reused and linked from the README.md in the root.

I'm also using this possibility to generate from multiple sources to put the documentation for each module project in that project.

2.2 pdfGeneratorOptions

Following is a complete plugin specification with all options specified:

```
<plugin>
    <groupId>se.natusoft.tools.doc.markdowndoc</groupId>
    <artifactId>markdowndoc-maven-plugin</artifactId>
    <version>n.n[.n]
    <executions>
        <execution>
            <id>generate-docs</id>
            <goals>
                <goal>doc</goal>
            </goals>
            <phase>install</phase>
            <configuration>
                <generatorOptions>
                    <generator>pdf</generator>
                    <inputPaths>
                    </inputPaths>
                </generatorOptions>
                <pdfGeneratorOptions>
                    <!--
                        The path to the pdf document to produce. Path is relative
                        to project root (see comment about root above).
                        Required.
                    <resultFile>Docs/MarkdownDoc-User-Guide.pdf</resultFile>
                    <!--
                        The page size. For example: A4, LETTER
                        Optional. Default: A4
                    <pageSize>A4</pageSize>
                    <!--
                        This will be put in PDF metadata and also rendered on
                        title page.
                        Required if generateTitlePage is true optional otherwise.
                    <title>MarkdownDoc</title>
                    < 1 - -
                        This will be put in PDF metadata and also rendered on
                        title page.
                        Optional.
                    <subject>User Guide</subject>
                        This sill be put in PDF metadata.
                        Optional.
                    <keywords></keywords>
                    <!--
```

```
The version of the document. This will be rendered on the
                title page.
                Optional, but recommended if generateTitlePage is true.
            <version>1.0</version>
            <!--
                The author of the document. This will be put in PDF
                metadata and also be rendered on title page.
                Optional.
            <author>Tommy Svensson</author>
                This will be rendered on the title page.
                Optional
            <copyright>Copyright © 2012 Natusoft AB</copyright>
                If true then links will render as plain text and not be
                clickable.
                Optional. Default: false
            <hideLinks>false</hideLinks>
            <!--
                Specify this if you want to change the bullet for
                unordered lists.
                Optional. Default: • (including space after!)
            <unorderedListItemPrefix>• </unorderedListItemPrefix>
            <!--
                Specify true here to have the first line of each
                paragraph indented.
                Optional. Default: false
            <firstLineParagraphIndent>false</firstLineParagraphIndent>
            <!--
                Specify in R:G:B format to change the background color
                of the document.
                Optional. Default 255:255:255 (white)
            <backgroundColor>255:255:255/backgroundColor>
            <!--
                Specify in R:G:B format to change the text color
                of block quotes.
                Optional. Default: 128:128:128 (grey)
            <blockQuoteColor>128:128:128<blockQuoteColor>
            <!--
                Specify in R:G:B format to change the text color
                of code blocks.
                Optional. Default: 255:255:255 (white)
            <codeColor>255:255:255</codeColor>
            < 1 - -
                Set to true to generate a title page.
                Optional. Default: false
            <generateTitlePage>true</generateTitlePage>
                Set to true to generate a table of contents.
               Optional. Default: false
            <generateTOC>true</generateTOC>
        </pdfGeneratorOptions>
    </configuration>
</execution>
```

</executions>

2.3 htmlGeneratorOptions

Following is a complete plugin specification with all options specified:

```
<pluqin>
        <groupId>se.natusoft.tools.doc.markdowndoc</groupId>
        <artifactId>markdowndoc-maven-plugin</artifactId>
        <version>n.n[.n]
        <executions>
            <execution>
                <id>generate-docs</id>
                <goals>
                    <goal>doc</goal>
                </goals>
                <phase>install</phase>
                <configuration>
                    <generatorOptions>
                        <generator>html</generator>
                        <inputPaths>
                        </inputPaths>
                    </generatorOptions>
                    <htmlGeneratorOptions>
                            The path to the html document to produce. Path is relative
                            to project root (see comment about root above).
                            Required.
                        <resultFile>Docs/MarkdownDoc-User-Guide.html</resultFile>
                            If set to true then the specified css will be inlined
                            in the generated html document. Otherwise the generated
                            html document will reference the specified css.
                            Optional. Default: false
                        <inlineCSS>false</inlineCSS>
                            The path to the css file for the generated html file.
                            Required.
                        <css>css/my.css</css>
                        <!-
                            This affects links and images. When specified the resulting
                            file: URLs in the result will be relative to the path
specified by
                            "path" if the absulute path of the URL starts with the
specified
                            path. If a plus sign (+) and a prefix path is specified it
will be
                            prefixed to the final URL.
<makeFileLinksRelativeTo>path[+prefix]</makeFileLinksRelativeTo>
                    </htmlGeneratorOptions>
                </configuration>
            </execution>
        </executions>
    </plugin>
```

2.4 mdGeneratorOptions

Following is a complete plugin specification with all options specified:

```
<plugin>
        <groupId>se.natusoft.tools.doc.markdowndoc</groupId>
        <artifactId>markdowndoc-maven-plugin</artifactId>
        <version>n.n[.n]
        <executions>
            <execution>
                <id>generate-docs</id>
                <goals>
                    <goal>doc</goal>
                </goals>
                <phase>install</phase>
                <configuration>
                    <generatorOptions>
                        <generator>md</generator>
                        <inputPaths>
                        </inputPaths>
                    </generatorOptions>
                    <htmlGeneratorOptions>
                        <!--
                            The path to the markdown document to produce. Path is
relative
                            to project root (see comment about root above).
                            Required.
                        <resultFile>Docs/MarkdownDoc-User-Guide-Complete.md</resultFile>
                            This affects links and images. When specified the resulting
                            file: URLs in the result will be relative to the path
specified by
                            "path" if the absulute path of the URL starts with the
specified
                            path. If a plus sign (+) and a prefix path is specified it
will be
                            prefixed to the final URL.
<makeFileLinksRelativeTo>path[+prefix]</makeFileLinksRelativeTo>
                    </htmlGeneratorOptions>
                </configuration>
            </execution>
        </executions>
    </plugin>
```

3 Command Line

3.1 General

MarkdownDoc can be run using java -jar markdowndoc-cmd-line-n.n.n-exec.jar. If you just run it without any arguments you get the following:

What the generator options are depends on the specified generator.

The markdowndoc-cmd-line-n.n.n-exec.jar is a jar generated to contain all dependencies in the same jar, making it easy to execute with java -jar.

generator

This should be either pdf, html, or md.

fileSpec

This is a comma separated list of paths relative to the current directory. The filename part of the path can contain regular expressions and the directory part of the path can specify .../**/... to mean any levels of subdirectories.

Example: root//docs/..md

parserOptions

These are in the format "option=value,...,option=value" with no spaces. Currently there is only one options for the JavadocParser: *markdownJavadoc=true*. When this is specified and java files are part of the input fileSpec then class and method texts are passed to the MarkdownParser instead of being added as text. This can be used in conjunction with a markdown doclet for javadoc.

3.2 PDF Generator

- --resultFile text (Required) Where to write the result.
- --pageSize text The pagesize name like LETTER or A4.
- --title text The title of the document
- --subject text The subject of the document.
- --keywords text Meta keywords
- --author text The author of the document.
- --version text The version to put on the title page. Must be specified to be rendered!
- --copyright text The copyright message to put on the title page. Must be specified to be rendered!

- --hideLinks true/false If true then links are not rendered as link the link text will be rendered as plain text.
- --unorderedListItemPrefix text What item marking to use for unuredered lists. Default is '- '.
- --firstLineParagraphIndent true/false If true then the first line of each paragraph is indented. Default is false.
- **--backgroundColor text** The background color of the document in "R:G:B" format where each R, G, and B are number 0 255.
- --blockQuoteColor text The blockquote color to use in this document in "R:G:B" format where each R, G, and B are number 0 255.
- --codeColor text The code color to use in this document in "R:G:B" format where each R, G, and B are number 0 255.
- --generateTOC true/false This generates table of contents. Default is false!
- --generateTitlePage true/false This will generate one first page with title, version, author, and copyright. Default is false.

3.3 HTML Generator

- --resultFile text (Required) Where to write the result.
- --inlineCSS true/false If true then the css will be included in the generated HTML.
- --css text The path to CSS file.
- —makeFileLinksRelativeTo "path+prefix_". This affects links and images. When specified the resulting file: URLs in the result will be relative to the path specified by "path" if the absulute path of the URL starts with the specified path. If a plus sign (+) and a prefix path is specified it will be prefixed to the final URL.

3.4 Markdown Generator

- --resultFile text (Required) Where to write the result.
- —makeFileLinksRelativeTo "path+prefix_". This affects links and images. When specified the resulting file: URLs in the result will be relative to the path specified by "path" if the absulute path of the URL starts with the specified path. If a plus sign (+) and a prefix path is specified it will be prefixed to the final URL.

4 Library

The library is made up of a document model representing all formats of markdown, parsers and generators. The parsers produce a document model and the generators generate from that model. The document model represents the markdown formats. Thereby there are no HTML pass-through from a markdown document! This tool only deals with markdown, not HTML.

The API docs for the library can be found here.

4.1 Usage

In package se.natusoft.doc.markdown.api there are 3 API classes:

Options - This represents options for a generator. It should be seen as a narrow variant of Object representing only generator options, but any such. It has one method common to all public boolean isHelp(). Implementations should have a default constructor.

Parser - This represents a parser.

```
public interface Parser {
    public void parse(Doc document, File parseFile, Properties parserOptions)
        throws IOException, ParseException;
}
```

The parser gets passed an already created Doc model allowing the document to be built from multiple source files by parsing into the same document.

Generator - This represents a generator.

getOptionsClass() returns the class implementing Options and holding all the options for the generator.

generate(...) generates the document provided by *document* using the specified *options* and producing the result in whatever *rootDir* relative path is specified in the *options*.

4.1.1 Parsers

4.1.1.1 se.natusoft.doc.markdown.parser.MarkdownParser

This parser parses markdown and only markdown! It ignores HTML with the exception of comments.

Example usage:

```
Parser parser = new MarkdownParser();
Doc document = new Doc();
parser.parse(document, parseFile);
```

4.1.1.2 se.natusoft.doc.markdown.parser.JavadocParser

This parser parses java source files and extracts class and method declarations and javadoc comment blocks. it produces a document model looking like this (in markdown format):

This allows you to include API documentation in your documentation without having to duplicate it. Please note that if markdownJavadoc=true parser option have been specified then class javadoc and method javadoc will not be ">" formatted but passed to the MarkdownParser instead.

Example usage:

```
Parser parser = new JavadocParser();
Doc document = new Doc();
Properties parserOptions = new Properties();
parser.parse(document, parseFile, parserOptions);
```

4.1.1.3 se.natusoft.doc.markdown.parser.ParserProvider

This is a utility to get a parser based on file extension. ".md", ".markdown", ".mdpart", and ".java" are valid extensions that will return a parser. If the passed file does not have a valid extension null will be returned.

Example usage:

```
Parser parser = ParserProvider.getParserForFile(parseFile);
Doc document = new Doc();
Properties parserOptions = new Properties();
parser.parse(document, parseFie, parserOptions);
```

4.1.2 Generators

Example usage:

```
public static void main(String[] args) {
    Doc document = new Doc();
    ... parsing of document.
   Generator generator = new [PDF | HTML | Markdown]Generator();
    // I'm using OptionsManager to load the options in this example.
    // If you use maven or ant then those tools will have loaded
    // the options for you and getOptionsClass() is not relevant
    // in that case.
    CommandLineOptionsManager<Options> optMgr =
       new CommandLineOptionsManager<Options>(generator.getOptionsClass());
    Options options = optMgr.loadOptions("--", args);
    if (options.isHelp()) {
       optMgr.printHelpText("--","", System.out);
    else {
       File rootDir = new File();
       generator.generate(document, options, rootDir);
}
```

Please note that the CommandLineOptionsMangager used in the example is part of the OptionsManager tool also by

me. Available at github.com/tombensve/OptionsManager.

4.1.2.1 se.natusoft.doc.markdown.generator.PDFGenerator

This generator produces a PDF document.

4.1.2.2 se.natusoft.doc.markdown.generator.HTMLGenerator

This generator produces an HTML document.

4.1.2.3 se.natusoft.doc.markdown.generator.MarkdownGenerator

This generator produces a Markdown document. So why would we want to generate markdown? Well, it became needed after I added the JavadocParser. Now I can have both markdown and java files as input and the PDF and HTML files contained the whole result including the javadoc information. The original markdown document however does not have the javadoc parts, and this markdown document is read as is on github and will then not be complete. Therefore I added this generator and moved my real source document into docs/src and also generate a markdown version into docs that will be as complete as the pdf and html version.

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