

Short Attention Span Docbook Toolchain – Setup Guide

<info@napcs.com>

Copyright © 2009 Brian P. Hogan

Table of Contents

1. Overview	1
Package Contents	1
2. Windows setup	2
Installing a Java Runtime Environment	2
Installing Ruby	2
3. Mac OS X Setup	3
4. The Project Generator	4
Creating books	4
Chapters	4
Articles	4
5. Writing your First Book	5
6. Generating Output from Docbook	5
PDF and RTF documents	5
Using Rake to build a book	5
Validation	6
Drafts	6
Book filename	6
7. Licensing	7
Saxon 6	7
Apache FOP	8
Xerces	11
Docbook Build Tools - make and new_book	14

1. Overview

This short guide will walk you through everything you need to use this toolchain to author your own Docbook documents.

Package Contents

This package contains all of the tools you need to start working with Docbook, including

- The Docbook stylesheets
- An XML validation tool
- The Saxon XSLT processor (version 6.5.3)
- The Apache FOP FO processor for making PDFs
- A copy of the Microsoft HHC program for building HTML Help files

- A sample project with an easy-to-use Ruby script to transform your document into various formats

2. Windows setup

Windows users should use the installer ¹ which sets up the necessary files and also sets up the path.

Manual installation

The easiest way to use this package is to use the application installer, but if you need to do a manual install, you can download the docbook zip file from <http://www.napcsweb.com/files/docbook/docbook.zip> and extract it to `c:\docbook`. Next, you'll want to add this folder to your PATH. To do that, press **Windows+Pause** to bring up the *System Properties* window. Select the Advanced tab and then select the Environment Variables button. In the User variables section, locate the Path variable and edit its contents. Append `;c:\docbook` to the end of the value. If there currently is no Path variable, create a new one called *PATH* and use `c:\docbook` for the value. Press OK to commit these changes. Press OK on the *System Properties* window to finish up.

Open a new command prompt and type **SET**. The PATH variable now reflects the changes you made.

Installing a Java Runtime Environment

Download the Java Runtime Environment from Sun ² and get it installed on your system if you don't already have it. Once installed, open a new command prompt and type

```
java -version
```

You'll see something similar to this:

```
Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_13-b05-237)
Java HotSpot(TM) Client VM (build 1.5.0_13-119, mixed mode, sharing)
```

Installing Ruby

Download and install the One Click Ruby Installer³ and install it, accepting the defaults. To verify the installation, open a new command prompt and type

```
ruby -v
```

You'll see something like this:

```
ruby 1.8.6 (2007-03-13 patchlevel 0) [i386-mswin32]
```

At this point, everything is installed and you're ready to begin. Test it out by creating a new project:

```
generate book my_test_project with_sample
```

¹Docbook setup for Windows: <http://www.napcsweb.com/files/docbook/docbook-setup.exe>

²Java Runtime: <http://java.sun.com/javase/downloads/index.jsp>

³Ruby: http://rubyforge.org/frs/?group_id=167&release_id=17128

```

Creating docbook project...
- my_test_project/xsl
- my_test_project/images
- my_test_project/book.xml
- my_test_project/chapter01.xml
- my_test_project/Rakefile
- my_test_project/template/xsl/pdf.xml
- my_test_project/w3centities-f.ent
Done

```

Now you have a simple sample project with a book file and a chapter. Convert this to a PDF to make sure everything works.

```
cd my_test_project
```

```
rake book.pdf
```

You'll get a brand-new PDF of the sample book.

3. Mac OS X Setup

Setup on Mac OS X 10.4 or above is quite easy. You have Java and Ruby already installed on the machine in most cases. All you need to do is download the files from <http://www.napcs.com/products/docbook/> and extract to `<dirname>docbook</dirname>` in your home folder. Once extracted, you should have a list of files that resembles this in your `~/docbook` folder:

```

drwxr-xr-x  18 brianhogan  brianhogan   612B Apr  2 11:56 .
drwx-----+ 63 brianhogan  brianhogan   2.1K Apr  2 10:12 ..
-rwxr-----  1 brianhogan  brianhogan    53K Apr  2 10:23 docbook.pdf
-rwxr-----@ 1 brianhogan  brianhogan   5.1K Apr  2 13:58 generate
-rwxr-----  1 brianhogan  brianhogan   165B Apr  2 10:52 generate.bat
drwxr-xr-x  35 brianhogan  brianhogan   1.2K Mar 31 10:15 jars
drwxr-xr-x  11 brianhogan  brianhogan   374B Apr  3 21:05 template
drwxr-xr-x  41 brianhogan  brianhogan   1.4K Mar 25 22:19 xsl

```

Permission Denied

You may need to set the executable bit for the `generate` file so you can use it.

```
chmod +x ~/docbook/generate
```

To create a new project, type

```
~/docbook/generate book my_test_project with_sample
```

This generates the project skeleton:

```

Creating docbook project...
- my_test_project/xsl
- my_test_project/images
- my_test_project/book.xml
- my_test_project/chapter01.xml
- my_test_project/Rakefile
- my_test_project/xsl/pdf.xml
- my_test_project/w3centities-f.ent
Done

```

Now try generating a PDF.

```
cd my_test_project
```

```
rake book.pdf
```

You'll get a brand-new PDF of the sample book.

Tip

Add the
`<dirname>docbook</dirname>`
folder to your path to make the `generate` command available without having to specify the full path.
Modify your `.bash_profile` to change the path.

4. The Project Generator

You've already seen how to generate a new book, but the generator is a bit more flexible.

Creating books

`generate book my_book with_sample` generates a new book with some sample content so you can see how you might construct your book. It also generates a sample external chapter file as an example of how you would split your book into multiple files.

`generate book my_book` generates a `book.xml` file, a `chapter01.xml` file, and a PDF XSLT customization layer file, as well as the directory structure. This sets you up to start your book from scratch.

Chapters

You can generate chapters as well so you don't have to remember what exactly goes into the chapter template.

`generate chapter chapter02` generates a `chapter02.xml` file in your current directory.

`generate chapter chapter2/some_stuff` generates a `some_stuff.xml` file in a `chapter2` folder within your current directory.

Articles

An article is just like a book, except it doesn't have chapters. It's ideal for simple projects where you don't need the complex structure of a book. The document you're reading is marked up as a Docbook article.

`generate article foo` creates a new article called `article.xml` in the `foo` subfolder of your current folder.

```
- foo/images
- foo/xsl
- foo/xsl/pdf.xml
- foo/Rakefile
- foo/w3centities-f.ent
- foo/article.xml
```

5. Writing your First Book

Your sample project contains the following files:

```
Creating docbook project...
- my_test_project/xsl
- my_test_project/images
- my_test_project/book.xml
- my_test_project/chapter01.xml
- my_test_project/Rakefile
- my_test_project/w3centities-f.ent
- my_test_project/xsl/pdf.xml
Done
```

`xsl/` contains XSLT Customization Layers for the various types of outputs. By default, the `Rake` task only uses a customization layer for the PDF output. A customization layer is simply a way for you to define your own style properties for your output. The customization layer imports the original Docbook XSLT file, and then you redefine your own transformations.

`images/` will contain any images you plan to reference in your document. It's a good idea to organize this by chapter.

`book.xml` is a sample starter template that shows you how to compose a simple book. You can build this into a PDF right away, and you can modify it and use it as the basis for your book, or just leave it around as an example.

`chapter01.xml` is an example chapter for a book. It's included within `book.xml` so you can see how you might break apart a book into multiple files.

`Rakefile` is the script used to transform your document into an actual publication. See Section 6, “Generating Output from Docbook” [5] to see how that works.

`xsl/pdf.xml` is the aforementioned customization layer for the PDF output. This is the only supported customization layer at this time. Look at the `make` to see how to add your own for other files. Additional defaults are coming in future releases.

Open up the `book.xml` file and modify its contents to write your book. Then render a new output, as discussed in Section 6, “Generating Output from Docbook” [5].

6. Generating Output from Docbook

There are several output options available with Docbook. This package provides easy access to the most popular transformation methods

PDF and RTF documents

Generating a PDF or an RTF document is a two-step process. The XML document needs to be processed and transformed into an XML-FO document which is ready for print. Then it needs to be converted into either RTF or PDF by another process. This package uses Apache FOP to handle this step.

Using Rake to build a book

When you generate a new project with `new_book` you get a `Rakefile` script written in the Ruby programming language. Ruby's a powerful language that's easy to learn and modify. That's the main reason it's used in this project. The other reason is that the script works on all platforms, whereas traditional makefiles work on Linux-based operating systems only. A Rakefile defines a script for use with the Rake utility popular in the Ruby community.

The Rakefile doesn't include much. It actually includes another file that does all the work, and provides a variable used to locate the rest of the build chain files.

Path to the Build Chain

When you generate a project, the generator will put the absolute path to the docbook build chain in your Rakefile. However, you can override this by setting an environment variable. On Linux or Mac OS, this would be:

```
export SHORT_ATTENTION_SPAN_DOCBOOK_PATH=/usr/local/docbook
```

On Windows, you'd do

```
SET SHORT_ATTENTION_SPAN_DOCBOOK_PATH=c:/docbook
```

Building

By default, this script can generate HTML, PDF, and RTF outputs. Windows users can also use it to generate Windows Help (CHM) documents if they have the [hhc.exe](#) file from the HTML Help Workshop installed on their system.

The build script is easy to use. You simply specify the name of the input file you want to use and the format you want to generate. To make things simple, the script uses a file naming convention that matches your original docbook xml file.

For example, if you have a file called `book.xml`, you'd be able to do the following transformations:

`rake book.html` to generate an HTML file of your book.

`rake book.rtf` to generate an RTF file of your book.

`rake book.pdf` to generate a PDF file of your book.

Validation

By default, the script calls out to the Docbook website to validate your file against the RelaxNG schema definition file. Sometimes you may want to work offline or you just know you're that awesome and don't need to validate. The script takes a `VALIDATE=false` option that skips the validation step.

`rake pdf VALIDATE=false`

If you have problems with your document, you may get unexpected results, so use this with caution.

Drafts

As you're writing, you may want to inform your readers and reviewers that you are in Draft mode.

`rake pdf DRAFT=true`

This turns on a background overlay and enables display of any remark tags in your document.

Book filename

The filename of your book is expected to be `book.xml`. However, sometimes it's necessary to build 'p

7. Licensing

The software contained herein is subject to various licensing agreements.

Saxon 6

SAXON: Conditions of Use

Saxon

The contents of the downloaded file (saxon.zip), with the exception of the AElfired parser (see below), are subject to the Mozilla Public License Version 1.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code of SAXON comprises all those components which are not explicitly attributed to other parties. It does not include the AElfired parser, which is redistributed under the licence described below.

The Initial Developer of the Original Code was Michael Kay. Individual modules identified as being created by James Clark, David Megginson, or John Cowan include separate IPR notices. All Rights Reserved.

Until January 2001 Michael Kay worked for International Computers Limited (ICL, now part of Fujitsu), and from February 2001 to January 2004 he worked for Software AG. These two companies both sponsored the development of Saxon and authorised its release under this license, but are not themselves parties to the license. Michael Kay now runs his own company, Saxonica, which has taken over all responsibility for Saxon development and support.

For reasons of continuity, the icl.com domain name is retained in package names and namespace URIs with the tacit consent of ICL, but this should not be taken to imply any ongoing ICL involvement.

If you produce a product that includes or requires SAXON, please refer to it as "The SAXON XSLT Processor from Michael Kay", and include the URL of the home page, which is at <http://saxon.sourceforge.net/>.

There is no guarantee of technical support, though I am usually able to answer enquiries within a few days. Please subscribe to the mailing list available at <http://lists.sourceforge.net/lists/listinfo/saxon-help> and raise any enquiries there. Also check the Saxon project pages on sourceforge for details of known errors; all bugs are listed there as soon as I have sufficient evidence to describe the nature of the problem.

AElfired

Included in the Saxon distribution is a modified version of the AElfired XML parser originally developed by David Megginson at Microstar (no longer in existence). I have taken the relevant part of David Brownell's AElfired2 distribution, repackaged it, and fixed a few bugs. All changes are clearly documented in the source code.

This is distributed under the terms of Microstar's terms and conditions, which are as follows:

AElfired, Version 1.2
Microstar's Java-Based XML Parser
Copyright (c) 1997, 1998 by Microstar Software Ltd.
Home Page: <http://www.microstar.com/XML/>

AElfired is free for both commercial and non-commercial use and redistribution, provided that Microstar's copyright and disclaimer are retained intact. You are free to modify AElfired

for your own use and to redistribute AElfried with your modifications, provided that the modifications are clearly documented.

DISCLAIMER

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of merchantability or fitness for a particular purpose. Please use it AT YOUR OWN RISK.

David Brownell added the following statement:

```
/*
 * Copyright (c) 1999-2000 by David Brownell.  All Rights Reserved.
 *
 * This program is open source software; you may use, copy, modify, and
 * redistribute it under the terms of the LICENSE with which it was
 * originally distributed.
 *
 * This program is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
 * LICENSE for more details.
 */
```

The version included with Saxon is David Brownell's code of 26 Feb 2000, modified as follows:

- * Changed the package name to com.icl.saxon.aelfred to prevent any accidental confusion with the original Microstar code or with David Brownell's version.
- * Fixed several bugs: (1) a bug in namespace handling (where an attribute xxx:name precedes the xmlns:xxx declaration) (2) poor diagnostics when end of file occurs prematurely
- * Subsetting the code to include only the XML non-validating parser and SAX driver, with appropriate changes to the setFeature() and getFeature() methods.
- * Some further changes made by David Brownell up to June 2001 have been incorporated.

Michael H. Kay
Saxonica Limited
22 June 2005

Apache FOP

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Xerces

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Docbook Build Tools - make and new_book

Copyright (c) 2008 Brian Hogan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.