Short Attention Span Docbook Toolchain

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1. Overview

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

1.1. 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 Environmenb 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.

2.1. 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)
```

2.2. Installing Ruby

Download and install the One Click Ruby Installer[3] 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
```

```
Creating docbook project...
 - my_test_project/xsl
 - my_test_project/images
 - my_test_project/book.xml
 - my_test_project/chapter01.xml
```

---

[1]Docbook setup for Windows: `http://www.napcsweb.com/files/docbook/docbook-setup.exe`
[2]Java Runtime: `http://java.sun.com/javase/downloads/index.jsp`
[3]Ruby: `http://rubyforge.org/frs/?group_id=167&release_id=17128`

```
 - my_test_project/make
 - my_test_project/template/xsl/pdf.xml
 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
```

```
ruby make 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 10.5 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.napcsweb.com/files/docbook.zip and extract to a docbook 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
```

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/make
 - my_test_project/xsl/pdf.xml
 Done
```

Now try generating a PDF.

```
cd my_test_project
```

```
ruby make book.pdf
```

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

> **Tip**
>
> Add the docbook folder to your path to make the new_book 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.

4.1. 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.

4.2. 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.

4.3. 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/make
- 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/make
 - my_test_project/xsl/pdf.xml
 Done
```

`xsl/` contains XSLT Customization Layers for the various types of outputs. By default, the `make` script 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.

`make` is the script used to transform your document into an actual publication. See Section 6, "Generating Output from Docbook" 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".

6. Generating Output from Docbook

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

6.1. 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.

6.2. The Make script

When you generate a new project with `new_book` you get a `make` 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.

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 make 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:

`ruby make book.html` to generate an HTML file of your book.

`ruby make book.rtf` to generate an RTF file of your book.

`ruby make book.pdf` to generate a PDF file of your book.

6.3. Validation

By default, the `make` 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 `make` script takes a `novalidate` option that skips the validation step.

```
ruby make book.pdf novalidate
```

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

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7.1. Saxon 6

```
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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
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If you produce a product that includes or requires SAXON, please refer to it as "The
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There is no guarantee of technical support, though I am usually able to answer
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 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.

AElfred
------------
```

```
Included in the Saxon distribution is a modified version of the AElfred XML parser
 originally developed by David Megginson at Microstar (no longer in existence). I have
 taken the relevant part of David Brownell's AElfred2 distribution, repackaged it, and
 fixed a few bugs. All changes are clearly documented in the source code.

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David Brownell added the following statement:

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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
```

7.2. Apache FOP

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7.4. Docbook Build Tools - make and new_book

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