Creating EPUBs: What's the Best Tool for Me?



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21 May 2012 - Scott Prentice, Leximation, Inc.

Introduction

- Scott Prentice, President of Leximation, Inc.
- Specializing in FrameMaker plugin development as well as structured FrameMaker conversions, consulting, and development. FrameMaker user/developer since 1991.
- Developed DITA-FMx, a FrameMaker plugin for efficient DITA authoring and publishing.
 - Developer of custom Help systems and creative/functional web applications.

EPUB basics

- EPUB is an ebook file format that can be read on almost every device and platform
- Requires a "reader" application or dedicated reader device
 - A collection of XHTML, XML, CSS, and media files wrapped up in a "zip" archive
 - Best way to learn about the EPUB format is to open your EPUB and review the contents

Structure of an EPUB file

mimetype file (at root) contains "application/epub+zip"

META-INF/container.xml points to the OPF file

OPF file contains metadata, manifest, and spine;

ditastyleguide.epub

content.opf

META-INF

toc.ncx

iTunesMetadata.plist

images

container.xml

points to an NCX file

NCX file is the "TOC"

XHTML, CSS, and media files are referenced by the OPF file

EPUB2 or EPUB3?

- IDPF (International Digital Publishing Forum) released EPUB3 in October 2011; replaces 2.0.1
- EPUB3 adds support for HTML5, SVG, MathML, and more
- Tool/reader support for EPUB3 is lacking
- For now use EPUB2 unless you know that your target device/application supports EPUB3

Creating an EPUB

Create content in an authoring tool then export to EPUB Convert to EPUB from existing content (PDF, HTML, DITA, etc.) People in techcomm will likely convert from existing content Each tool has its methods for authoring/conversion If possible, use named styles since these will typically map to CSS selectors in the XHTML No .. iBooks Author is not an EPUB authoring tool

Popular Authoring Tools

Authoring Tool	Platform	Cost
Adobe InDesign	Windows/Mac	\$700
Adobe RoboHelp	Windows	\$1,000
Adobe Technical Communication Suite	Windows	\$1,900
Apple iWork Pages	Mac	\$70
Atlantis Word Processor	Windows	\$35
eCub	Windows/Mac/Linux/FreeBSD/Solaris	\$0
Jutoh	Windows/Mac/Linux/FreeBSD/Solaris	\$40
MadCap Flare	Windows	\$1000
oXygen XML Editor	Windows/Mac/Linux	\$488
Scrivener	Windows/Mac	\$40/\$45
Sigil	Windows/Mac/Linux	\$0

Authoring Tool + Plugin

Authoring Tool + Plugin	Platform	Cost
Adobe FrameMaker + ElmSoft EPubFm	Windows	\$50
Open Office Word Processor + Writer2ePub	Windows/Mac/Linux	\$0
Open Office Word Processor + Pincette ODF to ePub	Windows/Mac/Linux	\$53

Conversion Tools

Conversion Tool	Platform	Cost
Aspose.Words Express Imports: DOC, DOCX, RTF, HTML, ODT	Windows	\$0
Calibre Imports: CHM, EPUB, HTML, LIT, MOBI, ODT, PDF, RTF, TXT,	Windows/Mac/Linux	\$0
DITA Open Toolkit + DITA for Publishers plugin Imports: DITA (XML)	Windows/Mac/Linux/ others (Java)	\$0
DocBook EPUB XSL stylesheets Imports: DocBook (XML)	Windows/Mac/Linux/ others (Java)	\$0
Pincette ODF to ePub Batch Converter Imports: ODT (DOC, DOCX, RTF, STW, WPD, PSW, TXT, HTML,)	Windows/Mac/Linux (Java)	\$400
WebWorks ePublisher Imports: FM, MIF, DOC, DOCX, RTF, DITA	Windows	\$800

Selecting a Tool

- No "perfect" tool for everyone

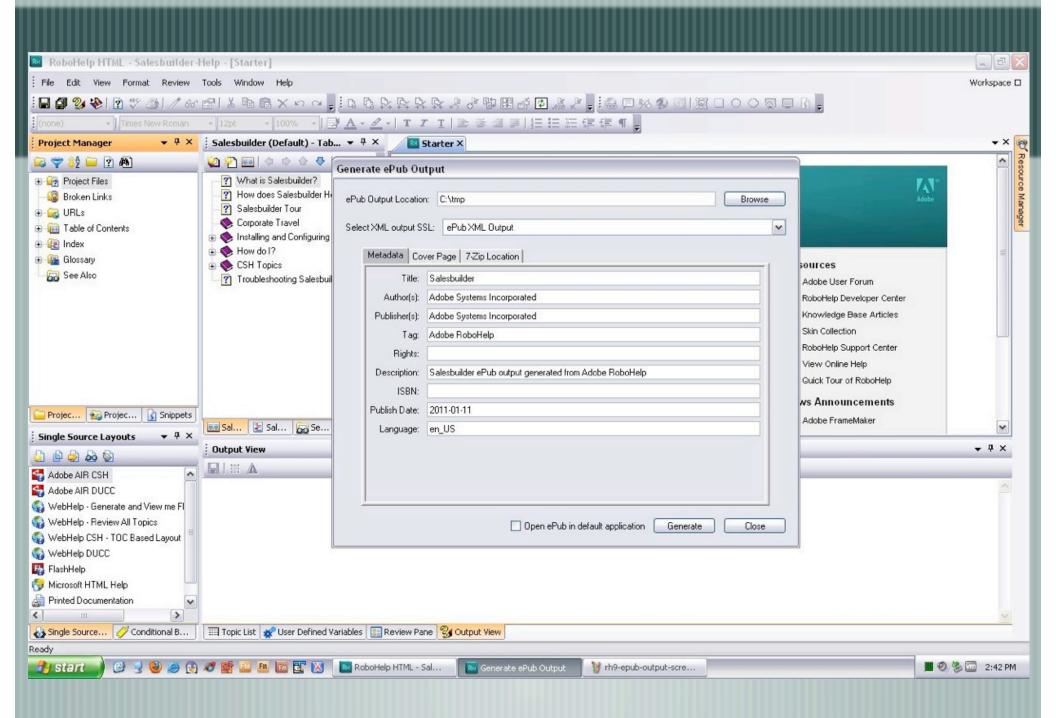
 Authoring specifically for EPUB or multiple outputs?
- Level of formatting required
- Source file formats and OS requirements
- Level of expertise
- Frequency of use
- Budget

Adobe InDesign

- Probably the most popular EPUB authoring tool
- Imports DOC, PDF, XML
- Numerous EPUB-specific features
- CS6 supports both the 2.0.1 and 3.0 EPUB formats
- Great for carefully crafted EPUBs
 - Mac and Windows

Adobe RoboHelp

Nice option for single sourcing Imports DOC, DOCX, RTF, FM, PDF, DITA, XML, HTML Just EPUB 2.0.1 (for now) Allows setting of cover image Limited specification of metadata Can be used for scripted processing Windows only

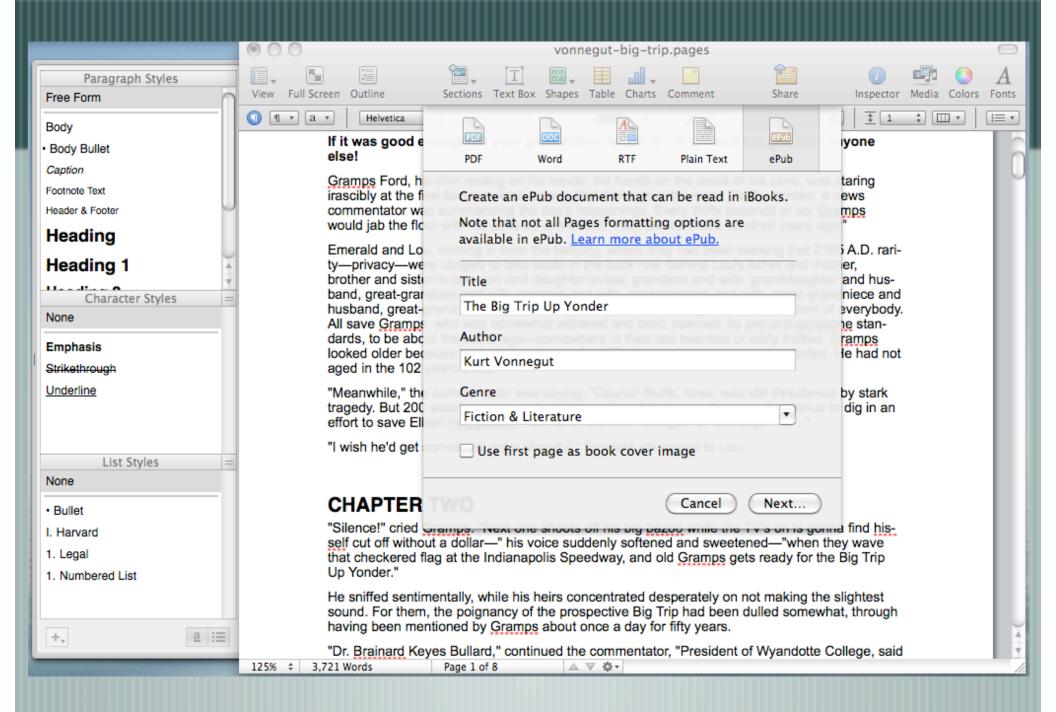


Adobe TCS

Allows authoring in FrameMaker Imports DOC, DOCX, RTF, DITA, XML, ... Publishes EPUB through RoboHelp Just EPUB 2.0.1 (for now) Set cover image in RoboHelp Limited specification of metadata Windows only

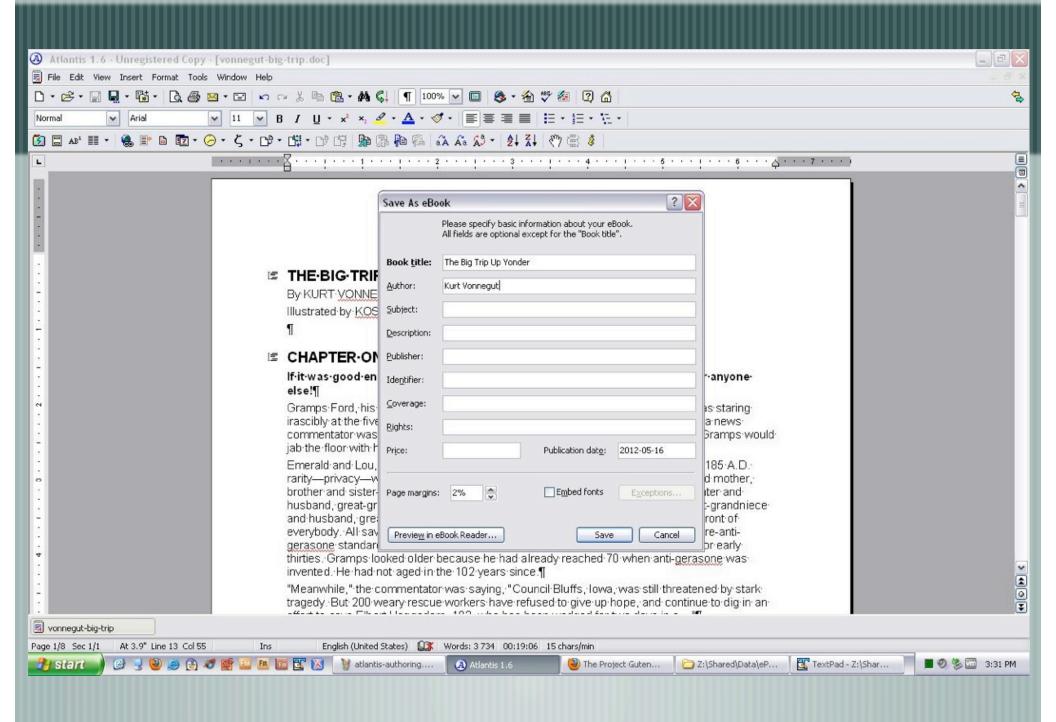
Apple Pages

One of the first tools for exporting to EPUB **Imports RTF** Currently just EPUB 2.0.1 Uses predefined styles for chapters and TOC entries Option to use first page as cover Limited specification of metadata Mac only



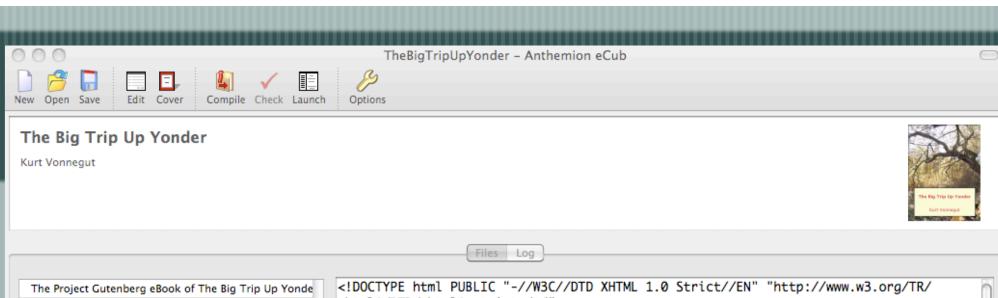
Atlantis Word Processor

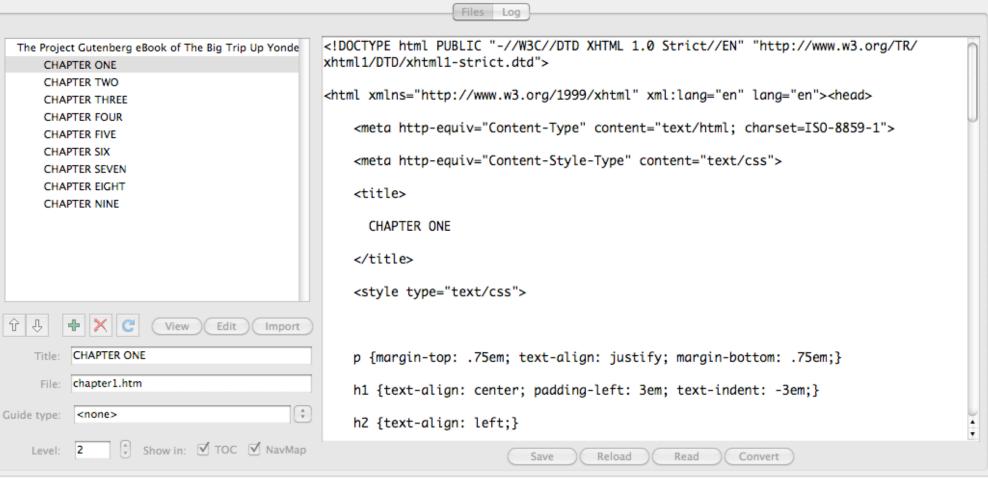
Low-cost "Word-like" word processor Imports DOC, DOCX, ODT, RTF, COD, TXT Supports EPUB 2.0.1 Uses first image as cover page More metadata than some, but limited Can perform batch conversions to EPUB Windows only



eCub

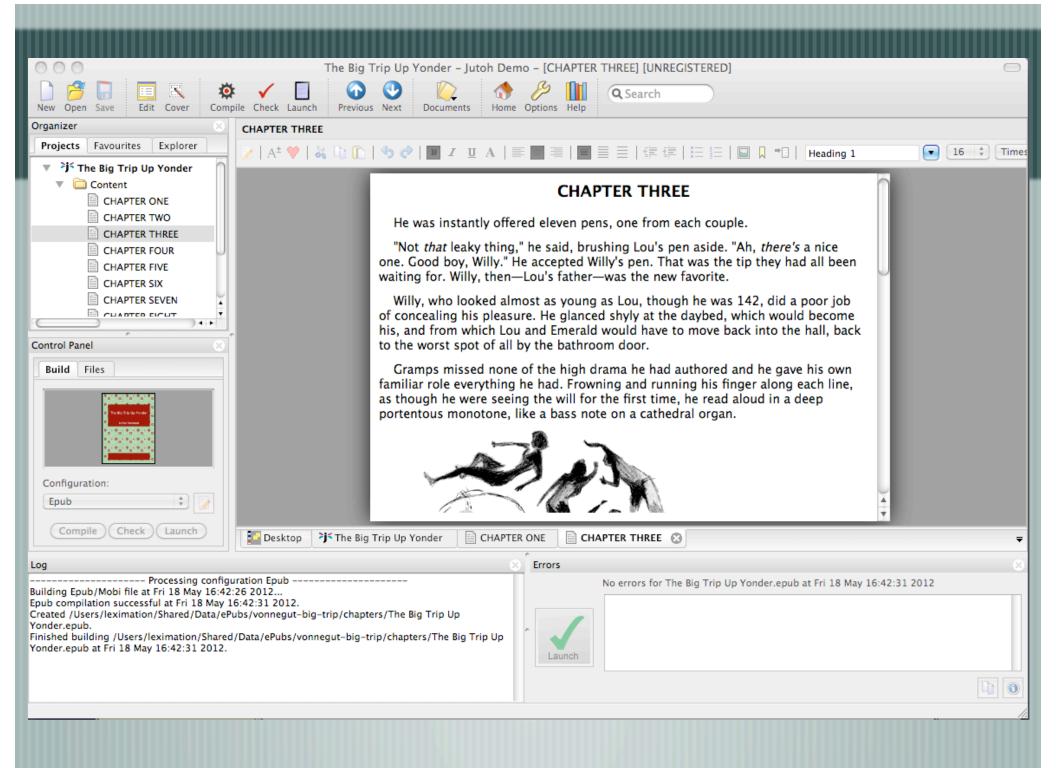
Specifically designed for easy EPUB/MOBI creation Imports TXT, HTML, or EPUB Supports EPUB 2.0.1 Not WYSIWYG, just text or XHTML Cover designer or from template Can be used for batch conversions Supports "all" platforms .. and it's Free!





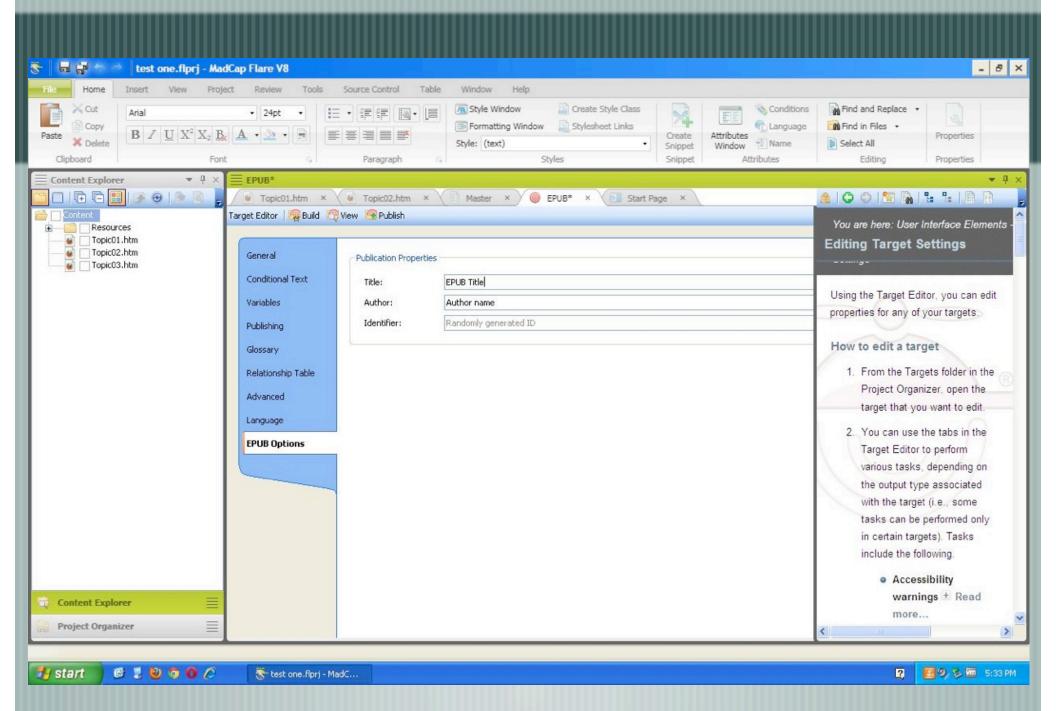
Jutoh

Specifically designed for easy EPUB/MOBI creation Imports ODT, HTML, EPUB, TXT Currently just EPUB 2.0.1 Nice WYSIWYG editor Cover page designer with templates **Extensive output options** Supports "all" platforms!



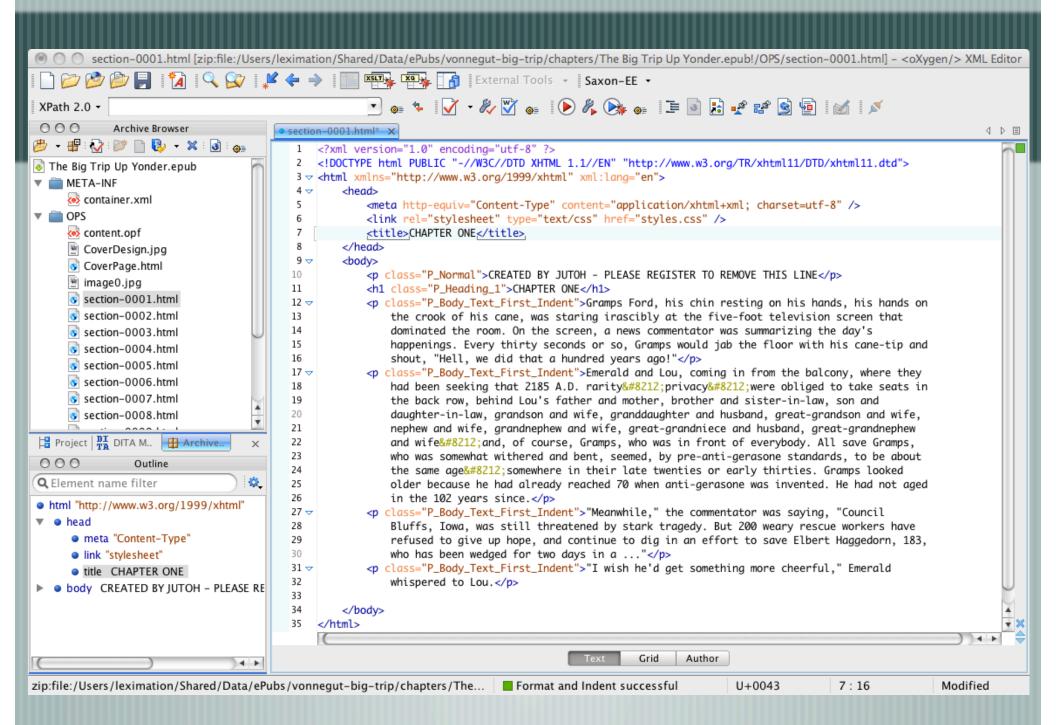
MadCap Flare

Another option for single sourcing Imports DOC, DOCX, FM, DITA, HTML Currently just EPUB 2.0.1 No cover page support, no chapter support Very limited specification of metadata Can be used for scripted processing Windows only



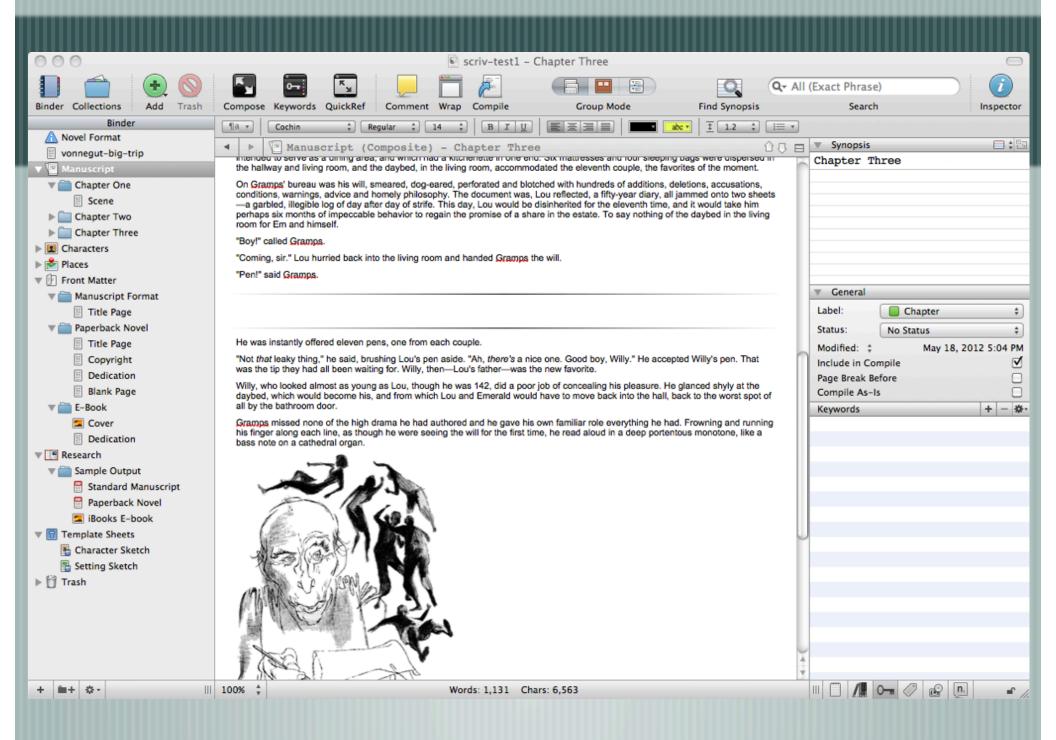
oXygen XML Editor

- Open and edit EPUB files (great for cleanup task)
- Supports EPUB 2.0.1 and 3.0
- Create EPUB from template (EPUB 2.0.1)
- WYSIWYG and code views
- Powerful XML editor features
- Mac/Windows/Linux



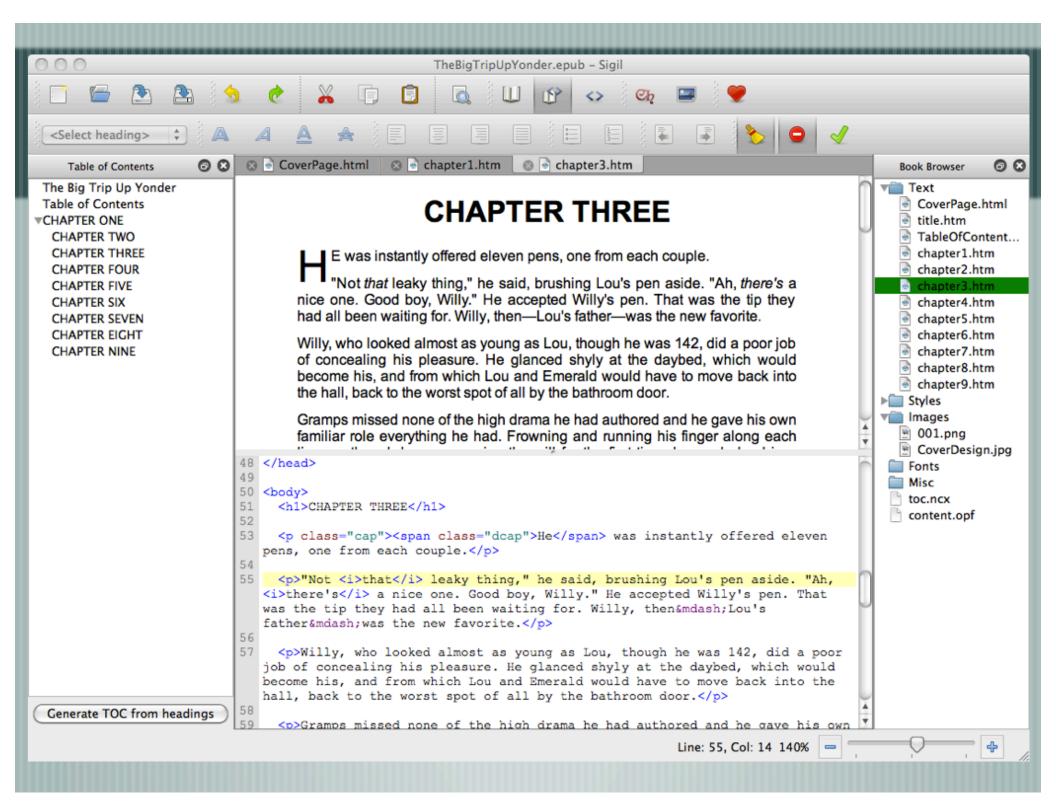
Scrivener

- Interesting "writing studio" interface:
 - Corkboard, Outliner, Scrivenings
- Imports RTFD, DOC, DOCX, ODT, TXT, FDX, FCF, OPML, URL ...
- Supports EPUB 2.0.1
 - Extensive control over output settings (formatting, transformations, layout, etc.)
 - Mac and Windows



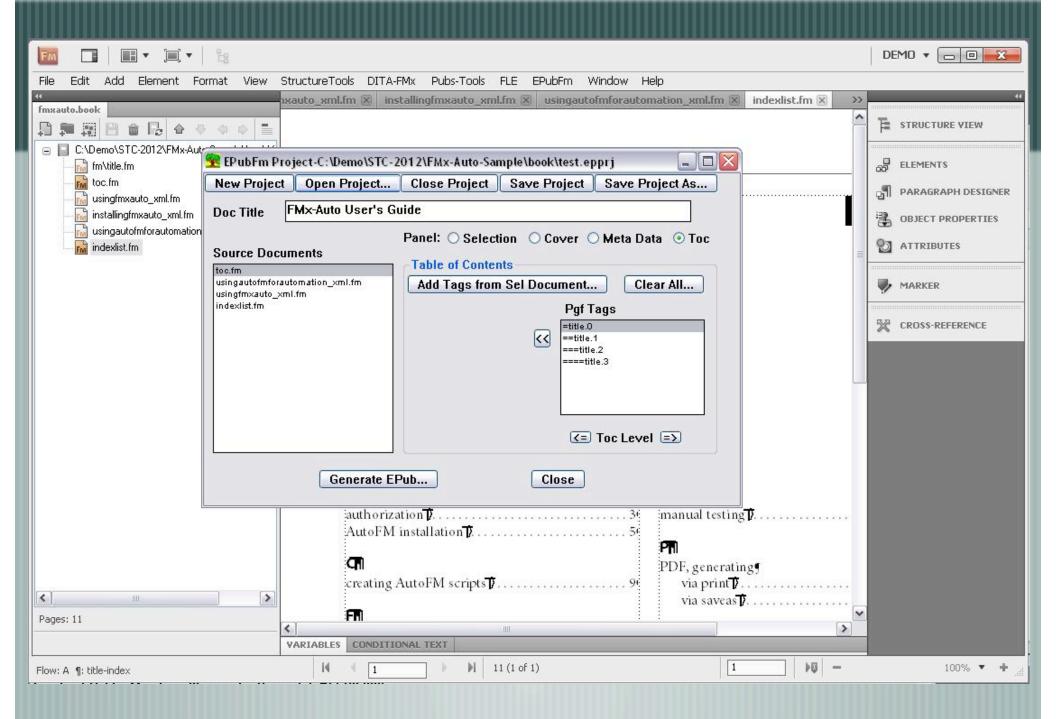
Sigil

Open and edit EPUB files **Imports TXT or HTML** Supports EPUB 2.0.1 WYSIWYG and code view authoring TOC builder, HTML tidy, EPUB validator Full metadata support Mac/Windows/Linux .. and Free!



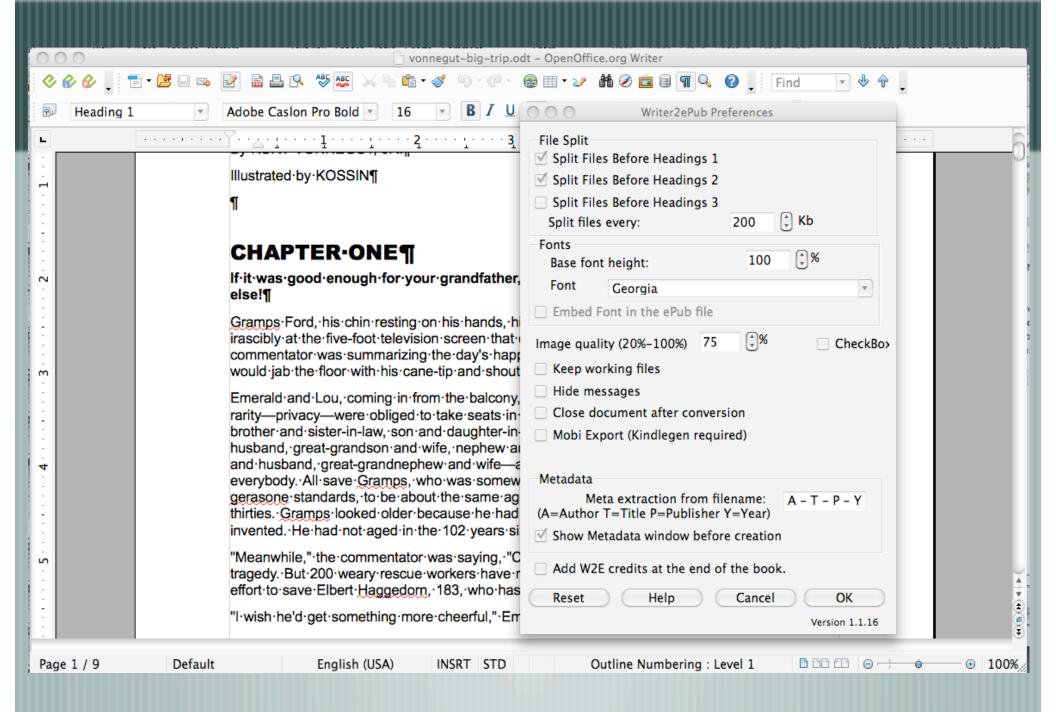
Elmsoft EPubFm

- Plugin for FrameMaker 6, 7.x, 8, 9, and 10
- Exports FM files to EPUB 2.0.1 and MOBI
- Various options for cover page
- Nice conversion of FM index
- Limited metadata support
- Windows only



Writer2ePub

- Extension for LibreOffice, OpenOffice, and NeoOffice
- Supports EPUB 2.0.1 and MOBI (via Kindlegen)
- Limited metadata support
- Cover image from first page or from file
- Mac/Windows/Linux .. and Free!



Pincette ODF to ePub

- Extension for OpenOffice 3.2 or later
- Supports EPUB 2.0.1
- Metadata extracted from source file
- Splits on outline level 1 styles and "page break before"
- Cover image from first page
- Mac/Windows/Linux

Aspose.Words Express

Converts from DOC, DOCX, RTF, HTML, or ODT

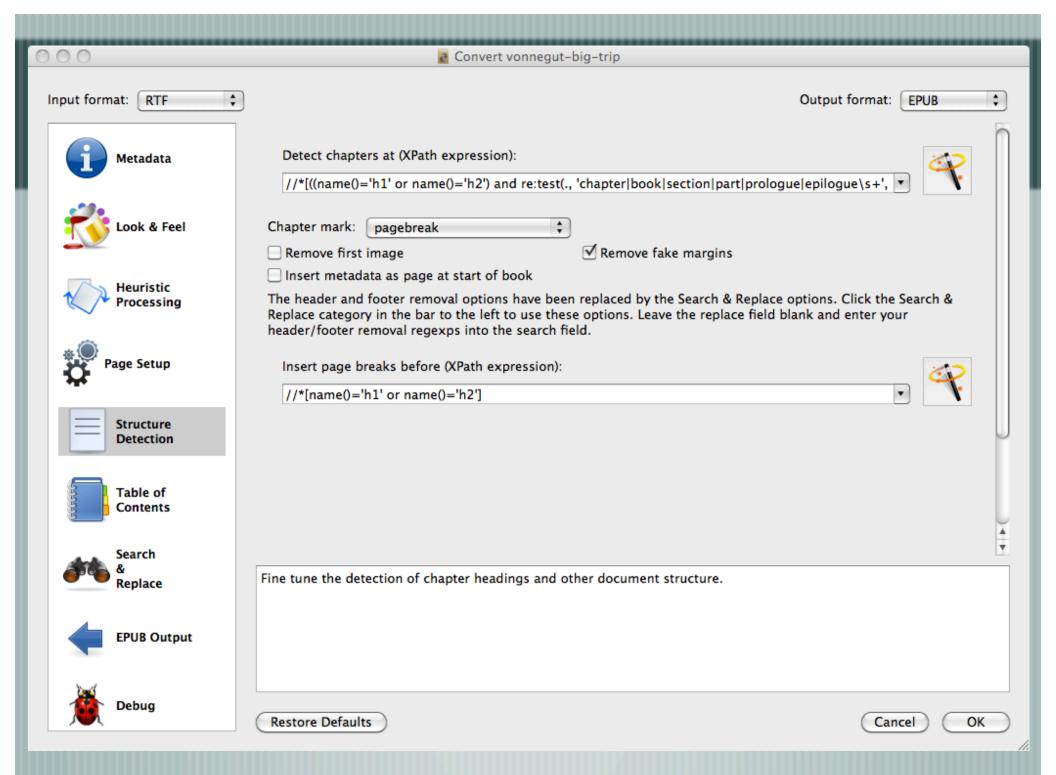
Supports EPUB 2.0.1

Allows control over various formatting options

Windows only .. Free!

Calibre

Converts CHM, EPUB, HTML, LIT, MOBI, ODT, PDF, RTF, TXT, ... Supports EPUB 2.0.1, as well as MOBI and KF8 Extensive control over various formatting options Numerous cleanup and processing features Can use XPath to define chapters and breaks Mac/Windows/Linux .. Free!



DITA-OT + DITA 4 Publishers

Converts from DITA XML
Supports EPUB 2.0.1 and MOBI
Uses XSLT and CSS from XHTML DITA-OT target
Ideal option for creating EPUB from DITA
Mac/Windows/Linux .. Free!

DocBook to EPUB

Converts from DocBook XML

Supports EPUB 2.0.1 and 3.0 (beta)

Uses XSL (also Python and Ruby options available)

Best option for creating EPUB from DocBook

Mac/Windows/Linux .. Free!

Pincette ODF to ePub (batch)

Converts from ODF

Supports EPUB 2.0.1

Metadata extracted from source file

Splits on outline level 1 styles and "page break before"

Cover image from first page

Mac/Windows/Linux

WebWorks ePublisher

- Converts FM, DOC, DOCX, RTF, DITA, and other XML models
 Supports EPUB 2.0.1
 Highly configurable formatting options
- Mix and match input formats
- Batch conversion through AutoMap
- Windows only

How to choose?

Remember .. there's no "perfect tool"

Hand-crafted or conversion?

Try all that remotely meet your needs

Have a number of tools on hand

Watch for new tools

Conclusion

- Create samples and test (and retest)
- Test on as many devices and applications as possible
- EPUBs may need to be "fixed"
- Validate the output with epubcheck
- Make use of scripting and batch processing

Tool resources

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Adobe InDesign - <a href="http://www.adobe.com/go/indesign/">http://www.adobe.com/go/indesign/</a>
Adobe RoboHelp - <a href="http://www.adobe.com/go/robohelp/">http://www.adobe.com/go/robohelp/</a>
Adobe Technical Communication Suite –
http://www.adobe.com/go/technicalcommunicationsuite/
Apple iWork Pages - <a href="http://www.apple.com/iwork/pages/">http://www.apple.com/iwork/pages/</a>
Atlantis Word Processor -
http://www.atlantiswordprocessor.com/en/
Aspose.Words Express - <a href="http://www.aspose.com/">http://www.aspose.com/</a>
categories/free-utilities-and-components.aspx
Calibre - <a href="http://calibre-ebook.com/">http://calibre-ebook.com/</a>
DITA Open Toolkit - <a href="http://dita-ot.sourceforge.net/">http://dita-ot.sourceforge.net/</a>
DITA for Publishers plugin -
http://dita4publishers.sourceforge.net/
DocBook to EPUB XSL stylesheets - <a href="http://sourceforge.net/">http://sourceforge.net/</a>
projects/docbook/files/epub3/
ElmSoft EPubFm - <a href="http://elmsoftonline.com/">http://elmsoftonline.com/</a>
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eCub - <a href="http://www.juliansmart.com/ecub/">http://www.juliansmart.com/ecub/</a>
epubcheck - <a href="http://code.google.com/p/epubcheck/">http://code.google.com/p/epubcheck/</a>
Jutoh - <a href="http://www.jutoh.com/">http://www.jutoh.com/</a>
MadCap Flare - <a href="http://www.madcapsoftware.com/flare/">http://www.madcapsoftware.com/flare/</a>
oXygen XML Editor – <a href="http://www.oxygenxml.com/">http://www.oxygenxml.com/</a>
Pincette ODT to ePub - <a href="http://www.pincette.biz/">http://www.pincette.biz/</a>
odftoepub/
Scrivener – <a href="http://www.literatureandlatte.com/">http://www.literatureandlatte.com/</a>
scrivener.php
Sigil - <a href="http://code.google.com/p/sigil/">http://code.google.com/p/sigil/</a>
WebWorks ePublisher - <a href="http://www.webworks.com/">http://www.webworks.com/</a>
Products/
Writer2ePub - <a href="http://extensions.openoffice.org/en/">http://extensions.openoffice.org/en/</a>
project/Writer2ePub/
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Resources / questions

- ─ IDPF EPUB 2 and 3 specifications www.idpf.org
 - Follow #eprdctn on Twitter
- Resources www.epubtest.com/resources.php
 - Questions?
 - Scott Prentice <scott AT leximation.com>
 - Leximation, Inc. www.leximation.com