



IBM User Technologies

Installing and Using the DITA Open Toolkit

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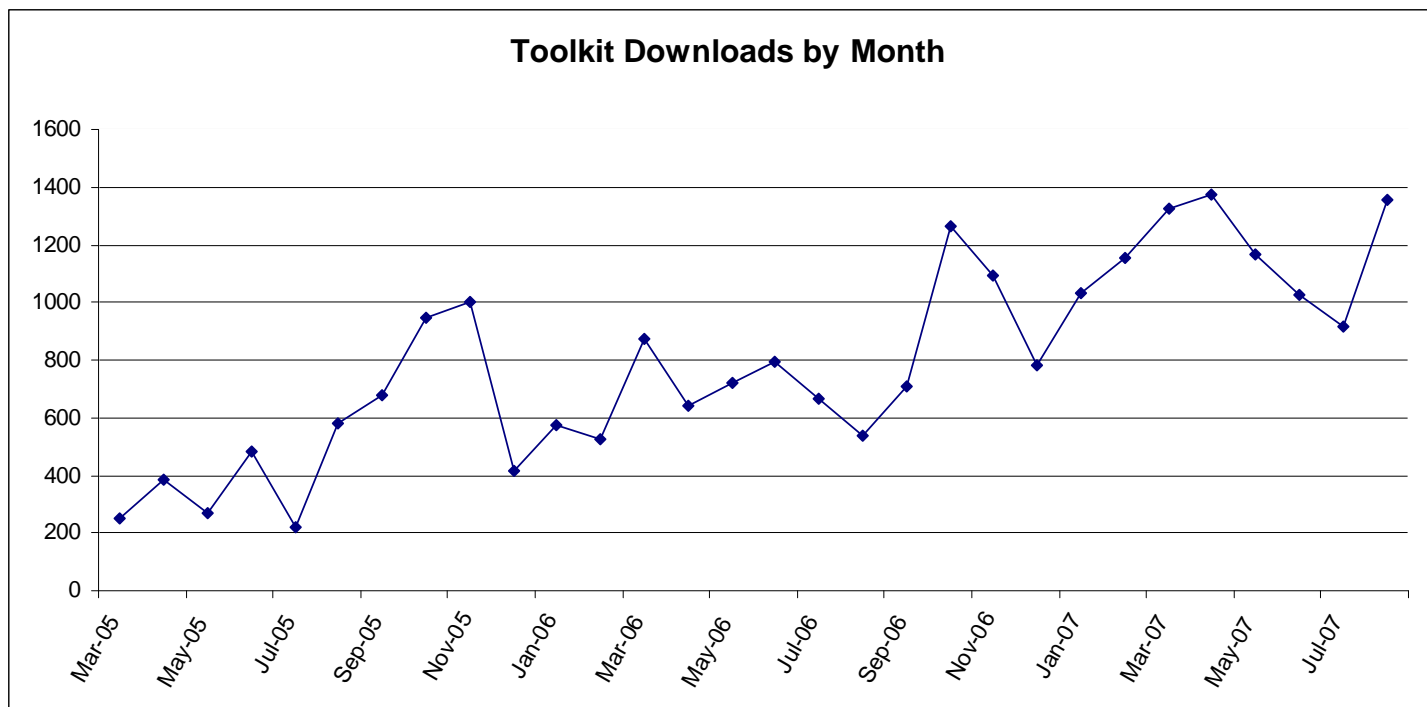
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DITA Open Toolkit

- What is the DITA Open Toolkit?
- What does it do?
- Where do I get it?
- How do I use it?

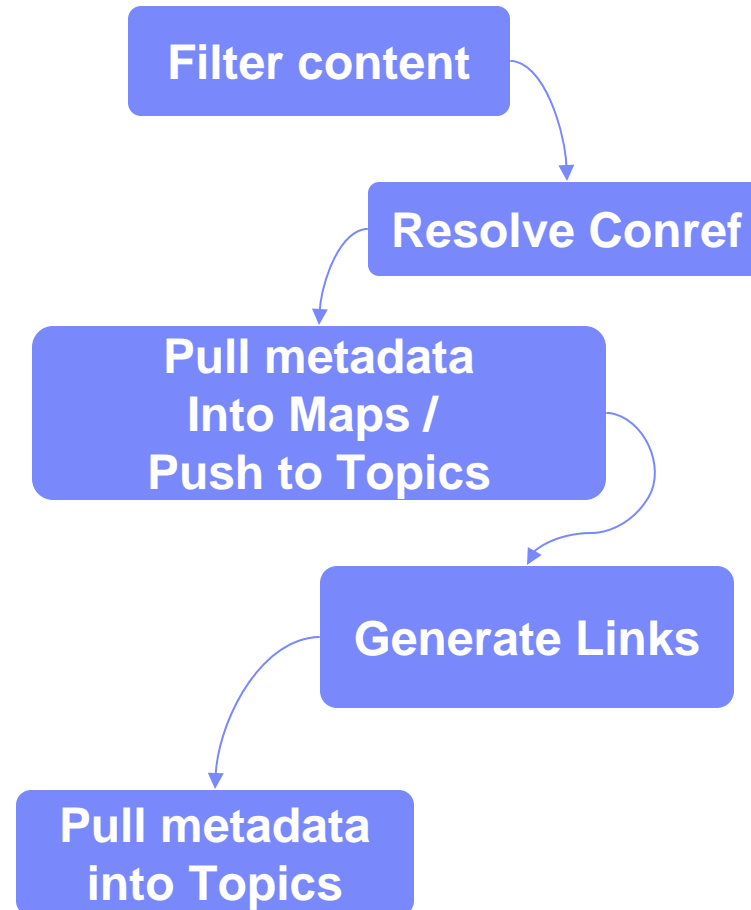
What is the DITA Open Toolkit?

The DITA Open Source Toolkit is a reference implementation of the OASIS DITA Technical Committee's specification for DITA DTDs and Schemas. The Toolkit transforms DITA content (maps and topics) into deliverable formats.



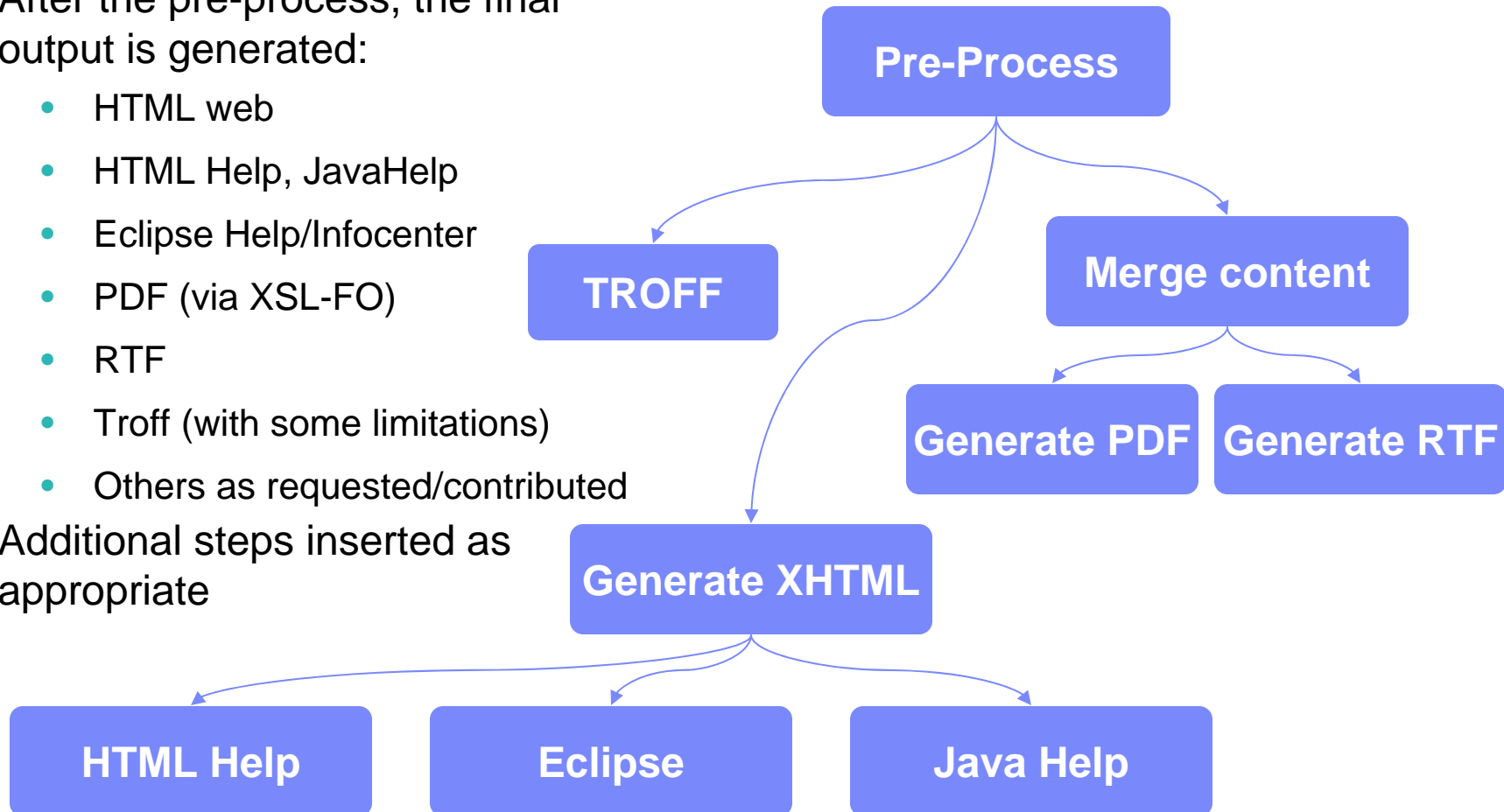
What does the Toolkit do?

- Each build begins with a standard “Pre-process” routine
 - Filter content
 - Resolve conref
 - Standard map processing:
 - Pull metadata into maps and push metadata to topics
 - Link management, including relationship tables
 - Standard topic processing
 - Pull metadata into topics
 - Some additional functions
- Generate output



What does the Toolkit do, Continued...

- After the pre-process, the final output is generated:
 - HTML web
 - HTML Help, JavaHelp
 - Eclipse Help/Infocenter
 - PDF (via XSL-FO)
 - RTF
 - Troff (with some limitations)
 - Others as requested/contributed
- Additional steps inserted as appropriate



Getting and installing the Toolkit

- Download the latest version of the Toolkit (currently 1.4)
- If you will need PDF, also get the FO Plug-in (currently 1.4)
- NOTE:** when getting the Toolkit, new users should get the Full Package – this includes most required tools

Latest File Releases				
Package	Release	Date	Notes / Monitor	Downloads
dita-ot	DITA Open Toolkit 1.4	August 11, 2007	-	Download
dita-ot under Apache License	DITA OT 1.2.2 ASL	May 21, 2006	-	Download
Plug-in: apiref	apiref-0.8	February 22, 2006	-	Download
Plug-in: cshelp	cshelp1.1	April 2, 2007	-	Download
Plug-in: dockbook2dita	docbook2dita 1.0	October 25, 2006	-	Download
Plug-in: FO	FO 1.4	September 6, 2007	-	Download
Plug-in: FrameMaker Adapter	FrameMaker Adapter 0.8	June 21, 2006	-	Download

Package	Release (date)	Filename
dita-ot		
Latest	DITA Open Toolkit 1.4	(2007-08-12 01:05)
		DITA-OT1.4_bin.tar.gz
		DITA-OT1.4_bin.zip
		DITA-OT1.4_fullpackage_bin.tar.gz
		DITA-OT1.4_fullpackage_bin.zip
		DITA-OT1.4_src.tar.gz
		DITA-OT1.4_src.zip

Using the Toolkit

- Install the Toolkit:
 - Unzip the Toolkit to a new directory.
 - If needed, unzip the FO plugin to the demo/ directory within the Toolkit.
- Install Java; if using the FO plugin, install RenderX (for now)
- Run the file “startcmd.bat” from the root directory of the Toolkit; this sets up your environment.
- Run the demo to build sample output files:
 - `ant all -f build_demo.xml`

Working with your files

- The Toolkit has several ways to start a build:
 - Create your own ANT build file – always the best long term solution, particularly for repeatable builds
 - Use the prompted ANT build within the Toolkit (limited function)
 - Use the Java command line – useful for those that want a relatively simple one-line command, with no direct interaction with ANT
- Specify the topic or map you wish to process, and the desired output
- The Toolkit builds your output
- For gaining familiarity, the Java command line and prompted ANT build are fine; creating your own ANT build will come later

Starting a build

- **Use your own ANT file:** `ant -f mybuildfile.xml`
- **Prompted ANT build:** `ant -f build_demo.xml`
- **Java command line:**
`java -jar lib/dost.jar /i:samples/sequence.ditamap /outdir:out /transtype:xhtml`

Advanced (but not too advanced) Toolkit functions

- Customize build processes
 - Customize ANT scripts for easy, repeatable builds
 - Customize XSLT for new function or to set house styles
- Create plugins *
 - Easily distribute local styles
 - Share a specialization
 - Create a new build pipeline
- Become a developer
 - Join IBM, Idiom, Moldflow, XMetal, and others
 - Help shape the future of the toolkit



▣ Plug-in: FrameMaker Adapter			
Latest	▣ FrameMaker Adapter 0.8	(2006-08-21 22:46)	
	framemaker_adapter0.8.zip		1149641
▣ Plug-in: javaapiref			
Latest	▣ javaapiref-0.8	(2006-02-22 21:50)	
	javaapiref0.8.zip		3825178
▣ Plug-in: Music			
Latest	▣ Music 1.0	(2006-11-06 21:15)	
	music.zip		85419
▣ Plug-in: Thesaurus			
Latest	▣ Thesaurus0.8.1	(2006-04-08 22:59)	
	thesaurus0.8.1.zip		210277
	+ thesaurus-0.8	(2006-02-22 21:55)	

* See the presentation “Creating Plugins for the DITA Open Toolkit” tomorrow at 10:15

Common questions

- Q: Do I need to use the command line in order to run the toolkit?
 - A: No. Some tools imbed the toolkit, and all interaction comes through their interfaces.



- Q: I need the output to match my company's style. How do I do that?
 - A: The toolkit has several options that allow you to style the output. If those are not enough, see tomorrow's talk on creating plugins.



- Q: I saw a FrameMaker plugin on the previous slide. What was that?
 - A: It converts a merged DITA map into a MIF-like format, which you can load into FrameMaker. You can modify the style and compose a PDF, but it is *not* for further editing.



Demo...

- Sample the prompted ANT build
- Build HTML Help
- Add relationship tables
- Add a topic
- Modify collection-type
- Build an NLS package
- Build PDF
- Add to a book; build the book to HTML and PDF
- Build Eclipse help

Demo (continued)

- Maps referencing maps
 - Conref
 - Filtering
 - Headers and footers
-
- Bringing it all together – the repeatable build

If you are using the advanced package

Everything works pretty much the same, just remember to:

- Install ANT
 - Update PATH, ANT_OPTS, and ANT_HOME variables

- Update your CLASSPATH
 - Toolkit JAR file(s)
 - XML Catalog resolver
 - XSLT and XML processors
 - Any others you plan to use (FOP, ICU, etc)

Questions?

- DITA focus area and Wiki: **<http://dita.xml.org>**
 - Michael Priestley's blog: <http://dita.xml.org/blog/25>

- DITA users mailing list: **<http://groups.yahoo.com/group/dita-users>**

- DITA Open Toolkit project page (download the toolkit here):
 - **<http://sourceforge.net/projects/dita-ot/>**

- DITA Open Toolkit User Guide:
 - **http://dita-ot.sourceforge.net/SourceForgeFiles/doc/user_guide.html**

- Toolkit Developer mailing list:
 - **http://sourceforge.net/mail/?group_id=132728**