



**IXIASOFT**

# Gotcha!\* Upgrading PDF plugins to DITA OT 2.x

\*and some helpful hints too

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# Mea culpa...mea maxima culpa

- In *DITA For Print*, I recommended copying entire stylesheets
- This worked out ok in the past and had some advantages, but...
- Between OT 1.8.5 and 2.x, I was hoist on my own petard



- So I'm really sorry



## DITA 1.3 stuff

- Of course there are new stylesheets, templates and attribute sets for new DITA 1.3 elements
- Not going into all that

# What's changed the most?

- No surprise here:
  - commons.xsl
  - links.xsl
  - tables.xsl
  - root-processing.xsl
  - vars.xsl

# insertVariable template

- Ubiquitous insertVariable replaced by getVariable:

```
<xsl:call-template name="insertVariable">
  <xsl:with-param name="theVariableID" select="'Chapter
with number'"/>
<xsl:with-param name="theParameters">
```

```
<xsl:call-template name="getVariable">
  <xsl:with-param name="id" select="'Chapter with
number'"/>
<xsl:with-param name="params">
```

- Produces warning in log but not error...for now
- Find/change these in your plugin

# DITA version tests

```
<xsl:when test="$ditaVersion >= 1.1">
  <xsl:call-template name="createFrontMatter_1.0"/>
</xsl:when>
```

- bookmarks.xsl
  - front-matter.xsl
  - index.xsl
  - toc.xsl
- \$ditaVersion no longer defined anywhere
    - Completely breaks build
    - OT 2.x assumes you are DITA 1.1+
    - If not, pop in your favorite cassette for some background music, fire up Windows 3.1, and get to work



# processTask

- Template deprecated
  - task-elements.xsl
  - commons.xsl (mode)
    - No error...for now
    - Replace with references to processTopic template

# Localization variables vs strings

- PDF plugin can now “read” from variables file or strings file
- For now, effect seen in task-elements.xsl:

```
<xsl:apply-templates select="." mode="dita2xslfo:retrieve-task-heading">  
  <xsl:with-param name="pdf2-string">Task Prereq</xsl:with-param>  
  <xsl:with-param name="common-string">task_prereq</xsl:with-param>  
</xsl:apply-templates>
```
- Variables continue to work as before but may eventually transition to strings where possible, so consider beating the rush



# FrameMaker index processing gone

- Legacy FrameMaker syntax for index term elements is gone
  - You can do it with a preprocessing step

# Font specification

- If you're not using FOP, move away from font-mapping and call physical fonts directly
- Font-mapping will probably be deprecated in future OT release

- Not:

```
<xsl:attribute name="font-family">sans-serif</xsl:attribute>
```

- But:

```
<xsl:attribute name="font-family">Arial, Helvetica</xsl:attribute>
```

# Stylesheets now using XSLT 2.0

- node-set() no longer used
  - attr-set-reflection.xsl          vars.xsl
  - flag-rules.xsl                  flagging-preprocess.xsl
  - index.xsl                          tables.xsl
  - toc.xsl
- xsl:value-of now outputs all items of a sequence
- xsl:sequence replaces many xsl:copy-of, xsl:value-of instructions
  - abbrev-domain.xsl
  - commons.xsl
  - tables.xsl

## Behind the scenes

- The i18N Java and XSLT processing code is merged into single task. There is no more stage3.fo in the temp directory. topic.fo is generated directly from stage2.fo.
- These preprocessing targets are deprecated:
  - conref-check
  - coderef
- The **chunk** pre-processing stage now comes before **move-meta-entries** to ensure metadata is properly pulled or pushed into chunked DITA topics.

## Behind the scenes [2]

- Processing specific to Apache FOP, Antenna House Formatter, and RenderX XEP has been separated into separate plugins. If you extended this processing, you might need to extend the new plugins instead.
- Keyref processing now happens before conref processing. If your plugin depends on the reverse order, you'll need to revise that.

Some nice new stuff you might want to add in

# Set parameters at plugin level

- Previously possible (topic2fo.xsl) but easier now
  - Things like TOC levels, generate task labels, input, output, temp folder
  - basic-settings.xsl

# Back cover generation

- Included in OT 2.x
  - New attributes sets in frontmatter-attr.xsl, layout-masters-attr.xsl
  - New page sequence master in layout-masters.xsl
  - New templates in static-contents.xsl
- Your home-grown will probably still work
- But look at the default and see if you can switch to it for simplicity/future compatibility sake



## Easier control of front/back pages, TOC

- basic-settings.xsl variables for front cover, back cover and TOC generation

# Easier control of page numbering

- New page-sequence attribute sets in commons-attr.xsl where page numbering can be specified
- And other properties, too

# Page sequence generation

- Now a lot of work done in root-processing.xsl rather than commons.xsl

# Links to figures and tables

- **links.xsl** includes new code to select the appropriate variable (Figure Number or Figure.title) based on value of the `args.figurelink.style` parameter
- Also includes new code to select appropriate variable (Table Number or Table.title) based on the value of the `args.tablelink.style`
- Check your custom variables to see if you need to add these to your plugin

## <codeblock>

- Automatic line numbering
- Hyphenation character (&#x25BA;) for auto-wrapping
  - pr\_domain.xsl

# Letter headings in bookmarks

- Configurable by total # of bookmarks
  - bookmarks.xml

# First column formatting

- Easily apply separate formatting to the first column of a table
  - tables-attr.xsl

Questions/Comments?

