Reuse between DITA and LwDITA specs

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Agenda

1. Why reuse?
2. Requirements
3. Strategy selected
4. Template for DITA 2.0 element-reference topics
5. Contents of the reuse topics

Why reuse?

- XDITA is a subset of DITA 2.0.
- The definition of an XDITA element must be the same as a DITA 2.0 element.
- The definition of an XDITA attribute must be the same as a DITA 2.0 attribute.
- DITA is all about reuse. If we can’t implement solid reuse between two DITA TC specifications, we’d look pretty silly.

Requirements

- LwDITA spec editors were adamant that they wanted to use the term “component” instead of element, when referring to something that applied generically (XDITA/HDITA/MDITA).

- DITA spec editors wanted to be able to do the following:
  - Easily see content shared between DITA and LwDITA specs
  - Easily compare content that varied, due to 1) Terminology differences, and 2) LwDITA having fewer elements and features

- Bookmap needed to generate OASIS-styled output; XML mention domain required also.

Strategy selected

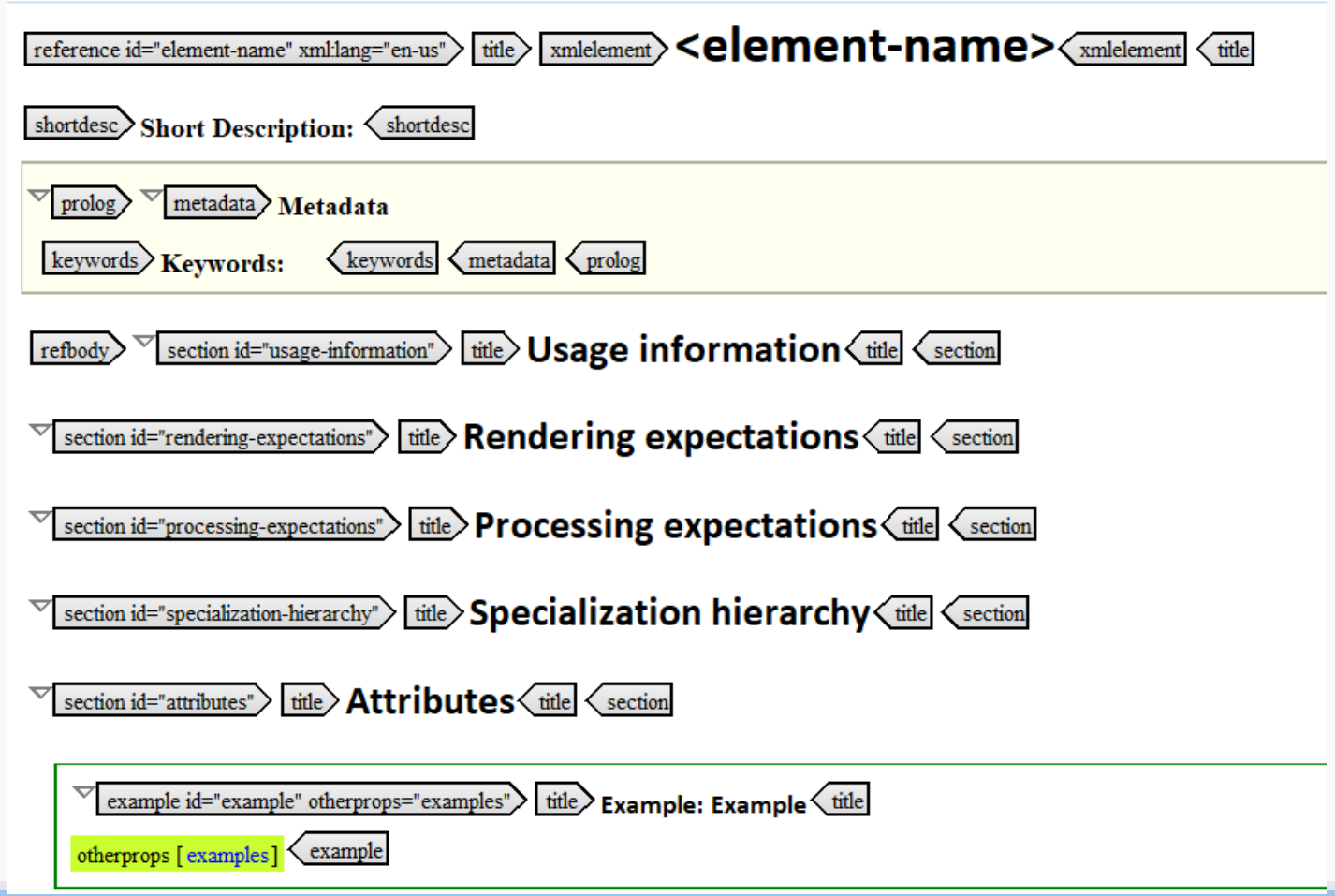
- Reuse topics for each element in the DITA/LwDITA intersection exist in the DITA repo
- The DITA repo would be a submodule for the LwDITA repo.
- Conditional processing using the @platform attribute (both for filtering AND flagging)
- Did an early prototype using variable text but rejected this strategy:
  - Issues with losing markup from the XML mention domain
  - Concerns about translation/not following best practices for reuse

Element reuse topics

- Are located in the GitHub repo for the DITA specification: dita\specification\common\reuse-w-lwdita directory
- Both the DITA 2.0 and LwDITA specs use @conkeyref to reference content in these topics.
- Shared key-definition map for these topics: dita\specification\common\key-definitions-reuse-w-lwdita.ditamap
- The key name for an element-reference topic = reuse-<name of element>

Reality check …

- How many of you are familiar with the new format for element-reference topics?
- New for DITA 2.0: A different template for these topics



A section only appears in a topic if it contains content

So what do the reuse topics contain?

- They always contain the following:
  - Short description (which uses natural language)
  - “Attributes” section

- If used, they contain the following sections:
  - “Usage information”
  - “Rendering expectations”
  - “Processing expectations”
  - “Specialization hierarchy”

- They DO NOT contain the following sections:
  - “Syntax” (LwDITA only)
  - “Example” or “Examples” (Non-normative & unique)

So what does a reuse topic look like?

1.1 <alt>

[LwDITA] [DITA] Alternate text is a textual description of an image. Systems often render the alternate text when the reader is using assistive technology or the image cannot be rendered.

Attributes

[DITA] The following attributes are available on this element: universal attributes (67).

[LwDITA]

The available attributes vary based on the authoring format:

XDITA

The following attributes are available on this element: localization attributes (52), universal attributes (54), and `@keyref`.

HDITA

The following attributes are available on this element: localization attributes (52), universal attributes (54), and `@keyref`.

MDITA

For the MDITA core profile, the equivalent of the XDITA `@keyref` attribute is supported. For the MDITA extended profile, attributes can be specified by using the HDITA representation.

DITAVAL that produced the previous screen capture

```
<?xml version="1.0" encoding="UTF-8"?>
<val>
 <style-conflict background-conflict-color="#ffffb3"/>
 <prop action="flag" att="platform" val="dita" backcolor="#ccffb3">
  <startflag>
   <alt-text>DITA</alt-text>
  </startflag>
 </prop>
 <prop action="flag" att="platform" val="lwdita" backcolor="#ffe6ff">
  <startflag>
   <alt-text>LwDITA</alt-text>
  </startflag>
 </prop>
</val>
```

Attributes

- Attributes topics refactored for DITA 2.0 (and might need some additional refactoring to implement a good experience in the LwDITA spec)

- I’ve done two rounds of working on the LwDITA attributes content:
  - XDITA attributes only
  - HDITA and MDITA attributes

- More work to be done here …

Color palette