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DITA-OT and DITA 2.0
Who's done what with where now?

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Agenda

- OASIS vs DITA-OT

- Backwards incompatibility

- How to test in DITA-OT

- What's ready for testing

- Process and timeline

- Questions and Resources

Introduction – why are you hearing from me?

- Robert D Anderson

- Not an original voting member of the DITA TC, but close

- Editor of OASIS DITA Specification, Versions 1.1, 1.2, 1.3, and now 2.0

- Long time DITA-OT user and developer

About the audience…

Anyone here…

- Already trying out DITA 2.0 in beta versions?
- Just looking to find out what is possible?
- Still not on DITA 1.3?

DITA-OT vs OASIS DITA

Without violence please...

OASIS

- Defines the markup and grammar
- Owns the processing definition
- When the spec is unclear, decides what is meant (or allowed)
- Extension by specialization

DITA-OT

- Distributes the grammar
- Implements the processing
- Generally, converts to something readable (HTML, PDF, or anything else)
- Extension by plug-in

Implementation dependent features

Sometimes, OASIS just doesn't have an answer

It lets a thousand flowers bloom

- Error recovery
- URIs that are not URIs
- Topic reference inside a map reference
- …

So where are we now (on the spec side)?

But with bursts of progress!

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But … so much to move

Metaphors? What metaphors?

How long have I been able to use these?

Backwards incompatibility

- Yes – 2.0 is backwards incompatible

- Mostly in small areas (except for the next slide)

- Allows the removal of technical debt
  - *Complicates life on the DITA-OT side, but is great going forward*

How to test DITA 2.0?

Migrate a copy of your content*

Update document public IDs; for example

```
"-//OASIS//DTD DITA Topic//EN"
➔
"-//OASIS//DTD DITA 2.0 Topic//EN"
```

And ... go! Some things probably won't work,
but you'll get an idea of the migration work ahead

DTD or RNG, basic map and topic types

Is it ready to use?

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WHY NOT MORE?!!?!?!?!

- Remember that glacier picture?
- The really big one??
- Needed panorama to get it???

- *There is a lot to manage*
- *And sometimes, it keeps snowing*

- *If you need a feature urgently …*
  we encourage participation!

So, what's ready?

- Any new markup can be used (but may not work)
- `chunk=combine, chunk=split`
- `<include>` element
- `@outputclass` based flagging
- `<audio>` and `<video>` elements
- `<strong>` and `<em>` elements
- Extensions to `<simpletable>, <steps>`
- Support for modified syntax domain
- Many syntax changes that "just work"
  - Under-the-covers attribute changes
  - New elements like `<mapresources>`
  - `@keyref` on domain elements
  - `<imagemap>` can be used in figures

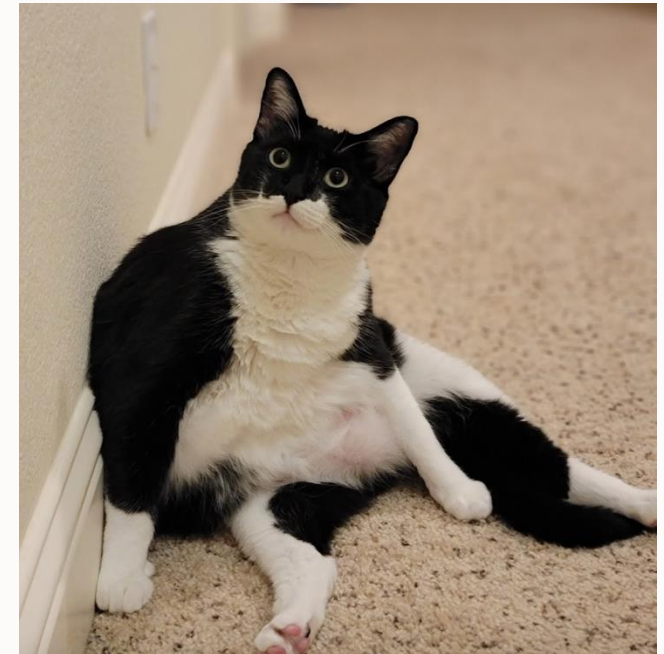# What still needs baking in DITA-OT?

Biggest items:

- New `<keytext>` element

- Replacement for `@copy-to`

- `<example>` in new places might format oddly

- Multiple hazard symbols in one hazard statement

- The new alternate titles

No more XSD, and removing some specializations

- Will not ship modular XSD for DITA 2.0

- Removing specializations
  - Learning and training
  - Machinery task
  - Task prerequisites domain

  - These will all be updated for DITA 2.0 and made available, but not part of the official DITA 2.0 standard, and not yet available in DITA-OT

Maybe we didn't actually need 1,000 flowers

Instead, use the Formally Approved Approach ™

How has the spec itself changed?

- Whole lot of rewriting
- Split Base and Technical Content packages
- Many full-TC reviews of specification chapters
- Goal is to make it all make more sense
  - Easier for implementors
  - Easier for users
- Grammar files ready for all expected changes

What do you get for migrating?

- New markup with new features
  - Multimedia
  - More functional simple tables, book maps
  - New `<include>` element

- More intuitive markup
  - Improved key-based text and link text
  - Redesign of navigation titles
  - Simplify chunking
  - Finally fixing `<steps>`

- You won't see a lot of the things that get in the way today

So, what is ready, and how do I test?

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New values `chunk=combine`, `chunk=split`

How I feel about updates to chunking

Known issue with chunking

Open ticket about resource-only topics getting picked up

Would like to get fix into a 4.3 patch

New <include> element

`topic id="include_topic"` `title` **Include test!** `title`

`body` `p` Test trying to include with the new element, and the old `p`

`p` `include format="txt" href="include-text.txt"` include `include` `p`

`codeblock` `coderef format="python" href="include-code.py"`

```
worlds = 0
while worlds < 5:
  worlds += 1
  print(f'Hello world number {worlds}!')
```
`coderef` `codeblock` `body` `topic`

Include test!

Test trying to include with the new element, and the old

This is some text! It will be pulled in to a paragraph! I've got newlines in here but they don't mean much, because paragraph!

```
worlds = 0
while worlds < 5:
  worlds += 1
  print(f'Hello world number {worlds}!')
```

Adding @`outputclass` into DITAVAL

```
<p>Paragraph with a <ph
    audience="myaudience">flagged
    phrase</ph></p>
...
<p>Paragraph with a <ph
    rev="revisiontest">flagged
    revision phrase</ph></p>
...
<p audience="myaudience">Flagged
    paragraph</p>

...
<p rev="revisiontest">Revised
    paragraph</p>
```

```
<val>

    <prop action="flag"
att="audience" val="myaudience"
outputclass="flagclass"/>

    <revprop action="flag"
val="revisiontest"
outputclass="revclass"/>

</val>
```

Obligatory flag photo to break up the text

Making use of `@outputclass` flags

```
span.flagclass {text-decoration:
underline;}


span.revclass {text-emphasis: red 'x'}



p.flagclass {text-decoration: green
wavy underline;}


p.revclass {text-emphasis: red '⌘'}
```


Test trying to use new `@outputclass` flagging capabilities

Paragraph with a flagged phrase

Spacing paragraph

xxx x x x xx xxxxx x x xxxxx
Paragraph with a flagged revision phrase

Spacing paragraph

Flagged paragraph

Spacing paragraph

⌘⌘⌘⌘⌘⌘⌘ ⌘⌘⌘⌘⌘⌘⌘⌘⌘
Revised paragraph

Multimedia

```
<p>Test trying to include media!</p>

<video controls="true"
       href="pickles.mp4"
       format="video/mp4"
       height="400px"/>

<p>What about just audio?</p>

<audio controls="true"
       href="sample.mp3"
       format="audio/mp3">
  <desc>Shouting!</desc>
</audio>
```


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New markup for steps

```
<steps>
  <step>
    <cmd>Create a steps element</cmd>
    <steps>
      <step><cmd>Open your editor</cmd></step>
      <step><cmd>Put in the element</cmd></step>
    </steps>
  </step>
  <step>
    <cmd>Nest another steps element</cmd>
    <steps>
      <step><cmd>Go to the same editor</cmd></step>
      <step><cmd>Put more steps into an existing step</cmd>
        <steps>
          <step importance="optional">
            <cmd>You could even go down to a third level</cmd>
          </step>
        </steps></step>
    </steps></step>
</steps>
```

Result is … what you would expect

Let's nest some steps

We are showing off the new capabilities

A lot of people did not like `<substeps>`

1. Create a steps element
   a. Open your editor
   b. Put in the element

2. Nest another steps element

   a. Go to the same editor

   b. Put more steps into an existing step
      i. **Optional:** You could even go down to a third level
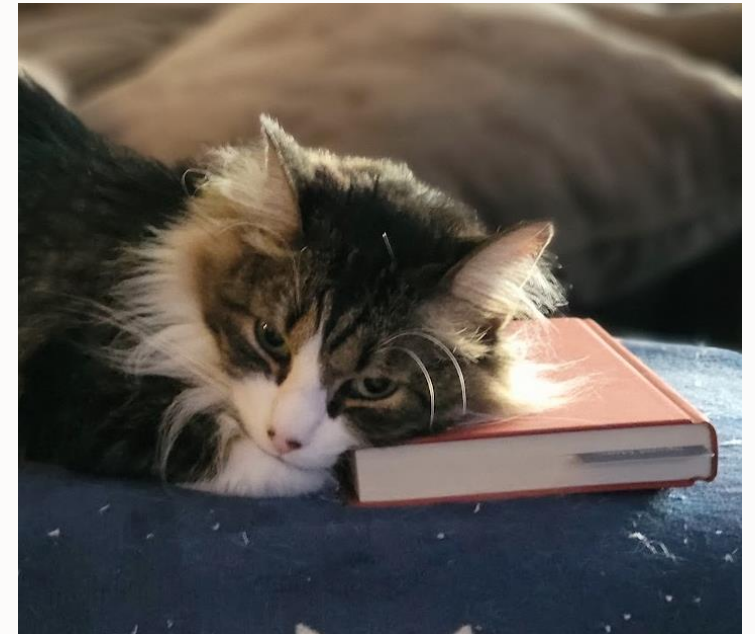
New bookmap element for resources

Examples can go in more places! But …

```
<topic id="example">
    <title>More examples!</title>
    <body>
        <p>This paragraph is important because <example>it includes an example of
an example</example>.</p>


        <p>You can take it too far though; what about a title?
<example><title>In-paragraph example</title>This is another example</example></p>


        <example>
            <title>Old-timey usage</title>
            <p>This is an example, as it was originally intended and still
works.</p>
        </example>
    </body>
</topic>
```

… but they might not fit

More examples!

This paragraph is important because

it includes an example of an example

.

You can take it too far though; what about a title?

In-paragraph example
This is another example

Old-timey usage

This is an example, as it was originally intended and still works.

Simple tables are slightly less simple! (If you want them to be.)

Try updates to simpletable

Table 1. This is a titled simpletable!

This	That
the other	
Another thing	Yes
	No
Finish with a long row so that I can space out my table	

How did I get that?

```
<simpletable frame="all">
  <title>This is a titled simpletable!</title>
  <strow>
    <stentry>This</stentry>    <stentry>That</stentry>
  </strow>
  <strow>
    <stentry colspan="2">the other</stentry>
  </strow>
  <strow>
    <stentry rowspan="2">Another thing</stentry> <stentry>Yes</stentry>
  </strow>
  <strow>
    <stentry>No</stentry>
  </strow>
  <strow>
    <stentry colspan="2">Finish with a long row so that I can space out my table</stentry>
  </strow>
</simpletable>
```
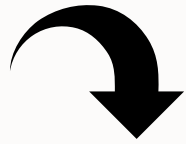
It's a simple table, with just a few bits of (HTML) flare

We now have *emphasis*!

`<p>What about <em>emphasis</em></p>`
`<p>What about <strong>strong</strong></p>`

What about *emphasis*

What about **strong**

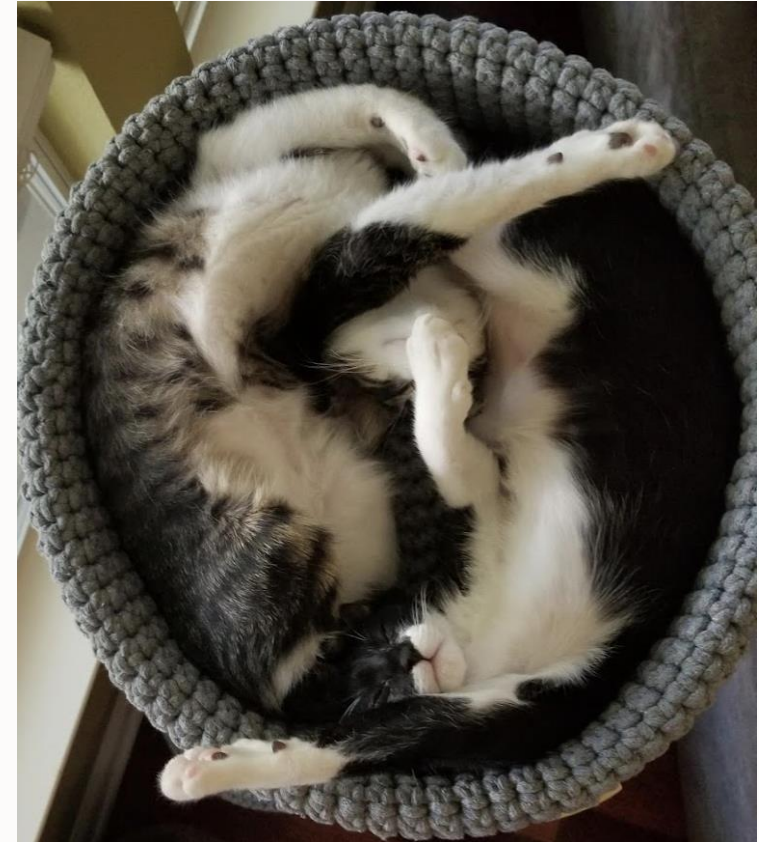*Support is new in 4.3 release*

hugs

Stuff that you can use, but not "use"

- New <keytext> element
- Alternate titles
- Indexing updates to remove redundancy
- Updated hazard domain with multiple symbols
- Change history list with <amendments>
- Markup is there but no formatting:
  - Hardware domain
  - Troubleshooting diagnostics

- Special note about new syntax domain

Can I use DITA 1.3 and DITA 2.0 together?

- Depends on your environment and tools

- *Recommend maps be all one or the other*

- You can upgrade when needed

- Upgrading brings new features

- Most tools will continue to support 1.x

Process and timeline

- Conducting focused internal reviews
  - Short reviews for TC members
  - Based on experience with larger reviews

- Expect to complete and begin formal standards process

- At the same point with technical content
  - Already up to date with all changes
  - Content already reviewed

Questions?

Who participates in the technical committee?

- Voting members
  - Information developers
  - Information architects
  - Managers
  - Professors
  - Consultants
  - Software developers / vendors

- Presently dialing in weekly from
  - US
  - Canada
  - Germany

Who participates in DITA-OT?

Look to your left

Look to your right

Look behind you

Is the audience for DITA 2.0 different than 1.3?

- In general, no.

- Primary audience continues to be implementors

- Definite effort to make it more readable, more accessible, better organized

Any more changes coming to DITA 1.3?

- DITA 1.3 Errata 02 is the last update

- There is a minor hotfix branch at GitHub

- Tools that support 1.x will likely continue
  - Different Public ID means tools can recognize 1.x versus 2.x

Were the pictures of your cats?

Yes, mostly

Any feature you are particularly excited to try out?

Resources

- All things DITA-OT: https://www.dita-ot.org

- Latest beta grammar files:
https://github.com/oasis-tcs/dita/releases/

- Latest technical-content beta grammar files:
https://github.com/oasis-tcs/dita-techcomm/releases/

- Submitting a comment to the DITA TC Comment list:
https://www.oasis-open.org/committees/comments/index.php?wg_abbrev=dita