

# DITA Reuse Strategies

Radu Coravu  
radu\_coravu@oxygenxml.com  
@radu\_coravu



# About the Author

## Background:

- Software engineer.
- 10+ years XML technologies experience.
- 5+ years DITA experience.

# What is the DITA standard?

- August 2007 DITA V1.1.
- XML data model for authoring and publishing.
- Topic-based authoring.
- Focus on content reuse.

# Overview

Go through every item in the toolkit

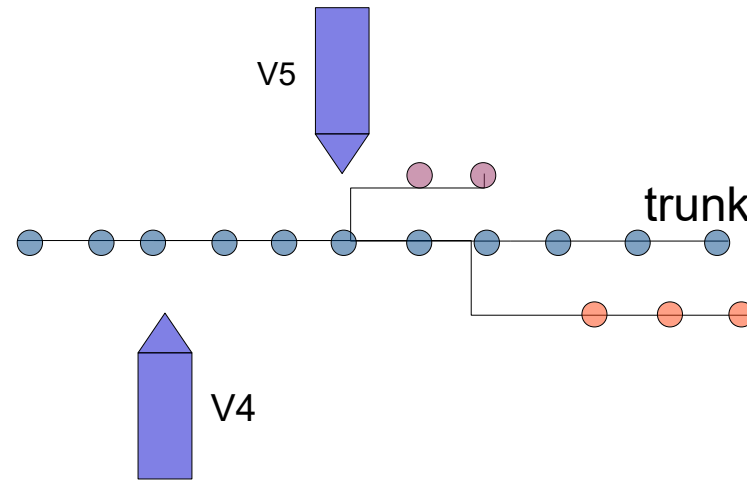


Discuss results of DITA Usage Poll:  
<https://t.co/94pUgfQuYz>

# Reuse



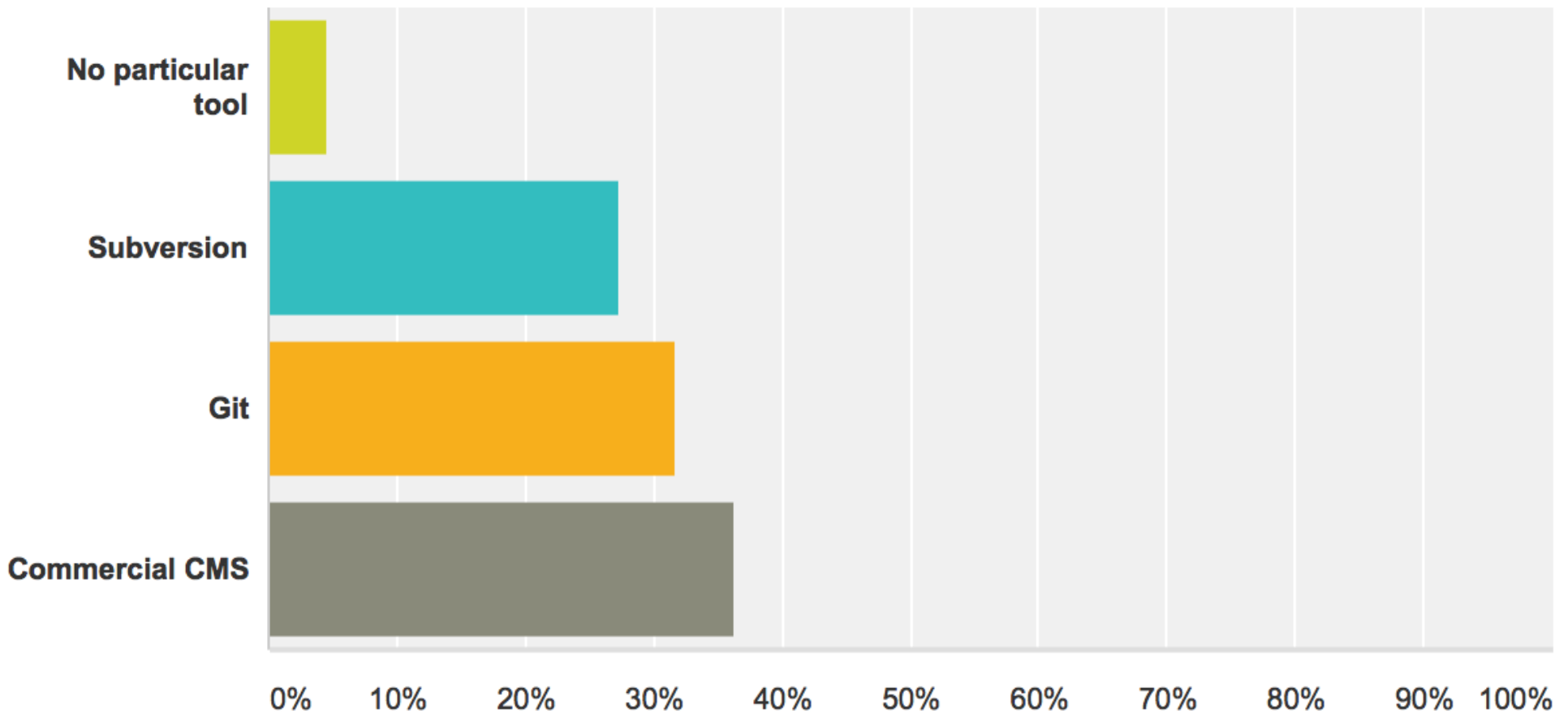
# Version Control



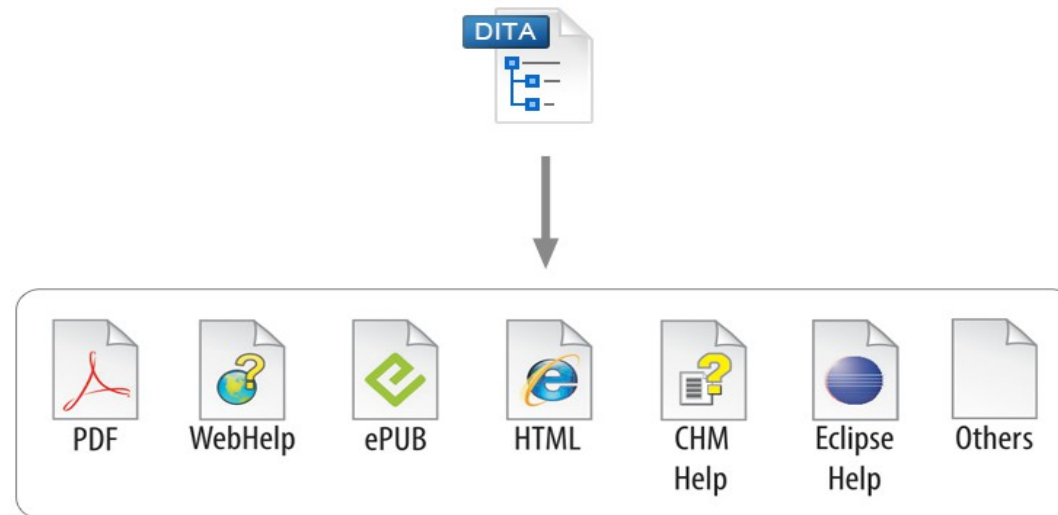
- Version control allows you to reuse content tagged at a certain point in time in order to produce older versions of your publications.

# What tool are you using for version control and collaboration with your DITA project?

Answered: 44 Skipped: 0



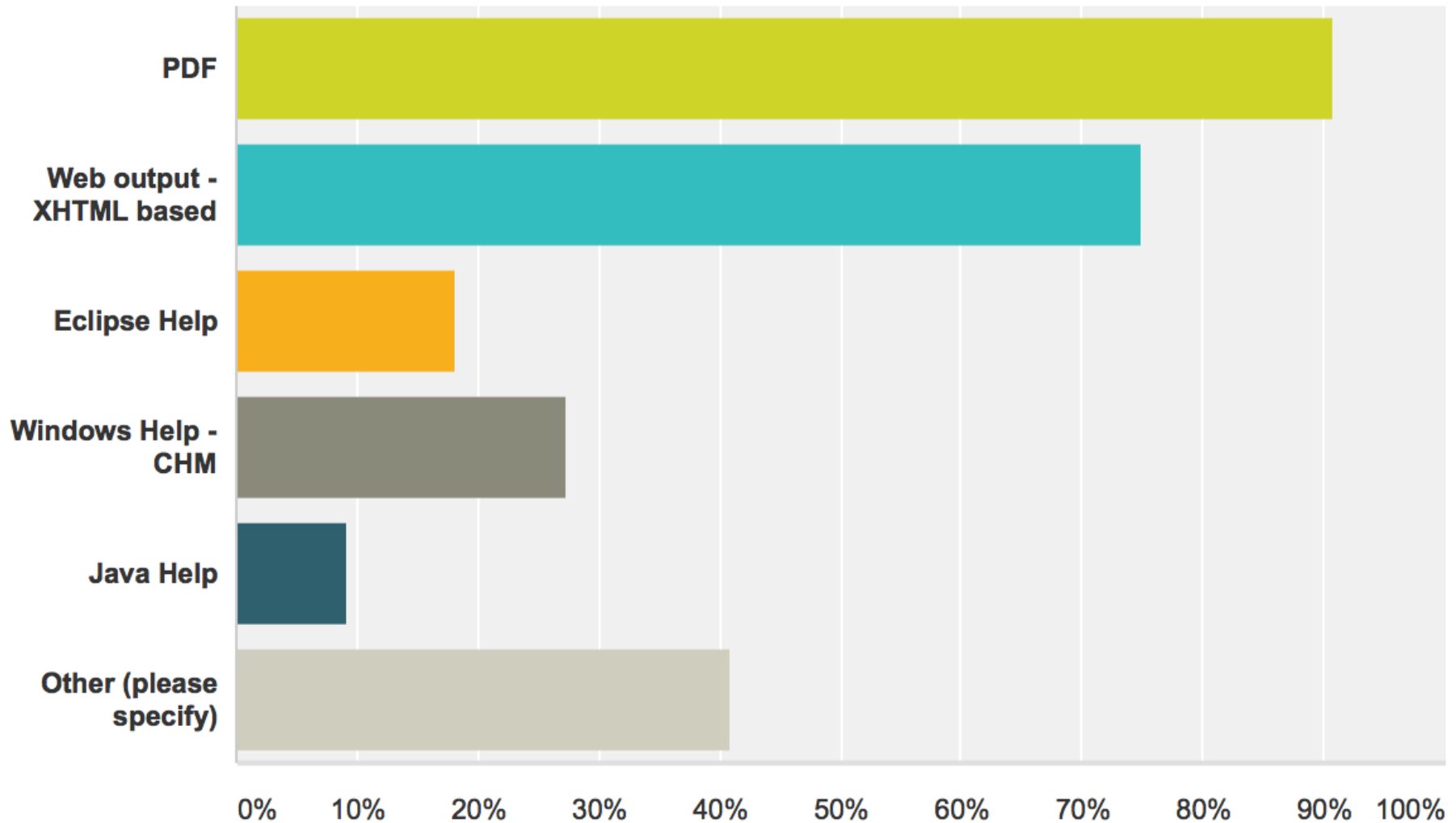
# Publishing DITA content to different formats



- Reach larger audience.
- Convenience.
- List of available output formats is not fixed (eg: DITA->Word).

# Check all output formats that you need to obtain from DITA content:

Answered: 44 Skipped: 0





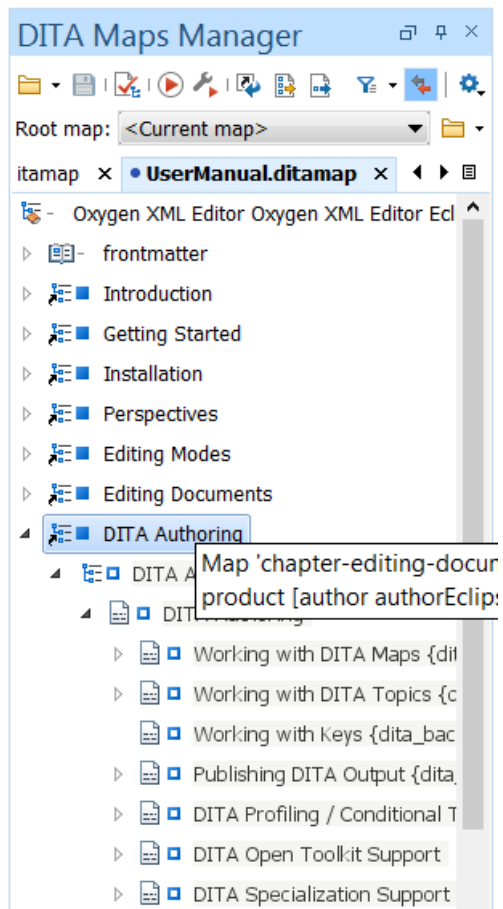
# Create larger publications from existing ones



- Merge multiple existing DITA Maps in various new publications.

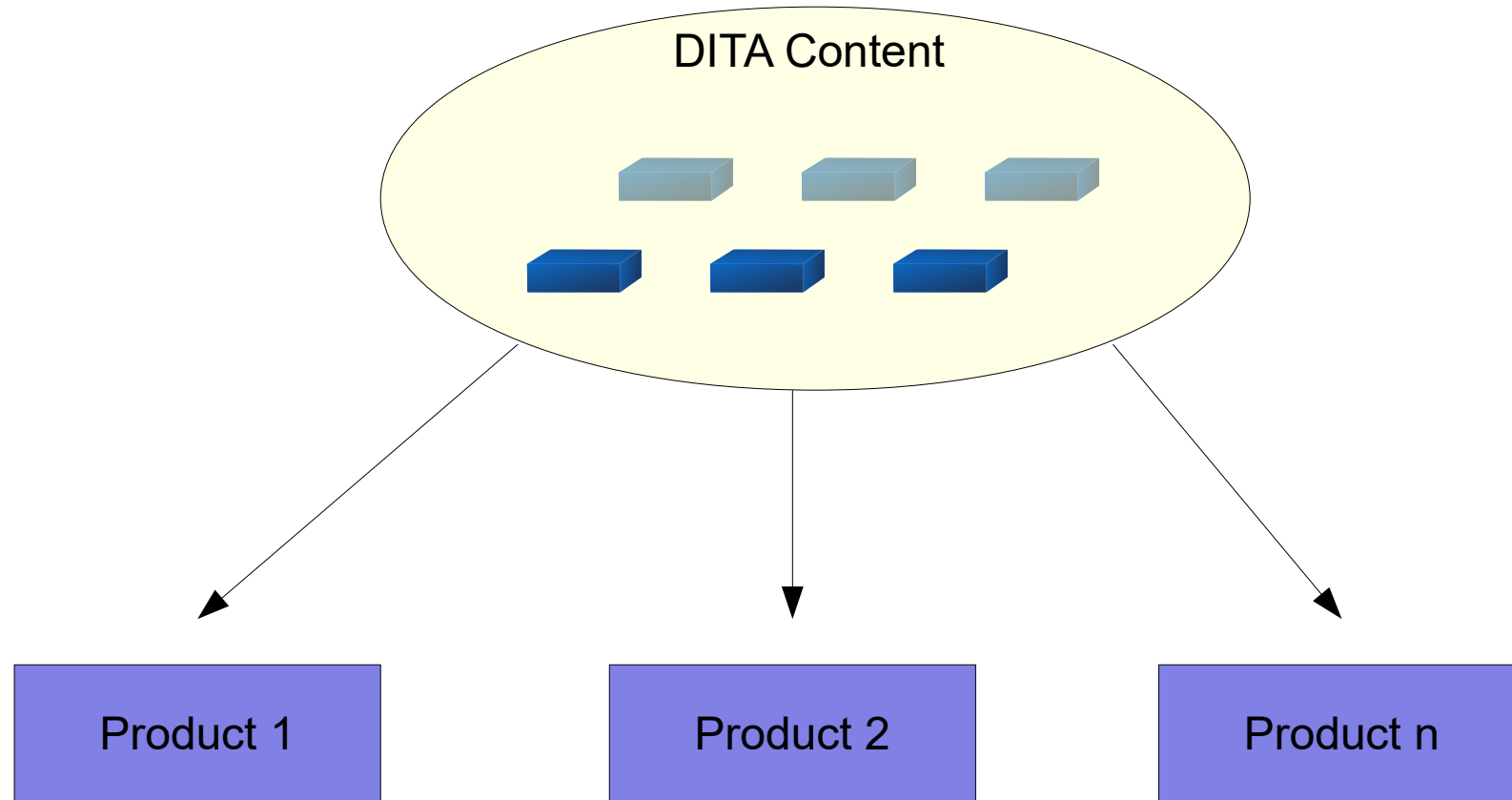


Even if you have a single root map you can keep related sections in different DITA Maps.

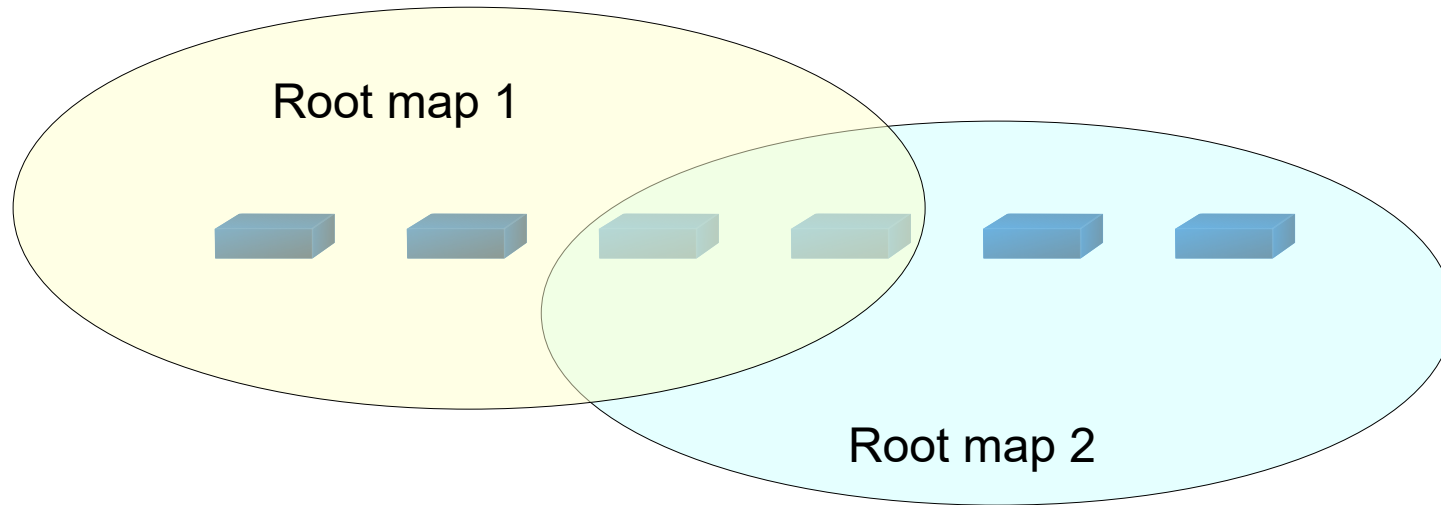


```
<chapter href="chapter-author-dita.ditamap"
collection-type="sequence" format="ditamap"/>
```

# Reuse content for similar products

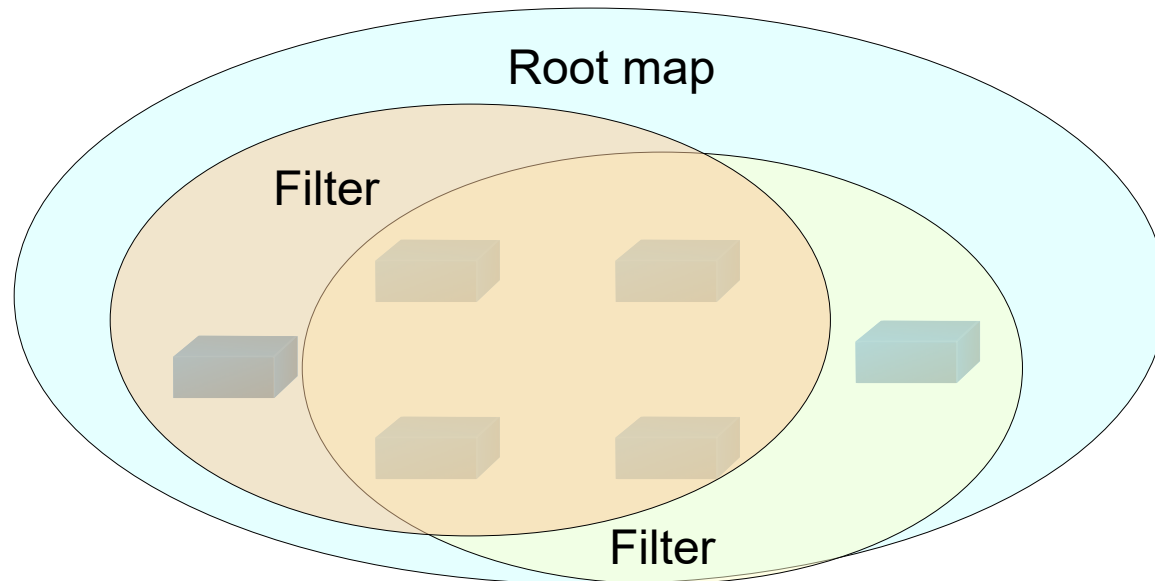


# 1. Use multiple root maps.

































- Reuse entire topics.
- Define variable product names.
- Remap links and reused content using keys.

## 2. Use single root map.



- Define variable product names.
- Use profiling attributes to filter content at topic or element level.

# Profiling At Topic Level

- ▼  **Topic Group** product [editor]
  - ▶  Global Preferences product [editor]
    -  Add-ons Preferences product [editor]
    -  Fonts Preferences product [editor]
  - ▶  Document Type Association Preferences product [editor]
    -  Perspectives Layout Preferences product [editor]
    -  Encoding Preferences product [editor]
  - ▶  Editor Preferences product [editor]
    -  CSS Validator Preferences product [editor]
  - ▶  XML Preferences product [editor]
  - ▶  Data Source Preferences product [editor]
  - ▶  SVN Preferences product [editor]
  - ▶  Diff Preferences product [editor]
    -  Archive Preferences product [editor]
    -  Plugins Preferences product [editor]
  - ▶  External Tools Preferences product [editor]
  - ▶  Menu Shortcut Keys Preferences product [editor]
  - ▶  File Types Preferences product [editor]
    -  The Open/Find Resources Preferences Page product [editor]
    -  Custom Editor Variables Preferences product [editor]
  - ▶  Network Connection Settings Preferences product [editor]
    -  XML Structure Outline Preferences product [editor]
    -  View Views Preferences product [editor]
    -  Messages Preferences product [editor]
- ▼  **Topic Group** product [author]
  - ▶  Global Preferences product [author]
    -  Add-ons Preferences product [author]
    -  Fonts Preferences product [author]
  - ▶  Document Type Association Preferences product [author]
    -  Perspectives Layout Preferences product [author]

# Alternate Text

## ▽ Choosing an installer

You have a choice of installers.

- The native installer for your platform. On Windows and Linux, the native installer can run also in unattended mode.

product [author, developer, editor, svnClient]

- The All-platforms installer, which can be used on any supported platform.

product [author, developer, editor, svnClient]

- The Update Site installation.

product [authorEclipse, developerEclipse, editorEclipse]

- The Zip archive installation.

product [authorEclipse, developerEclipse, editorEclipse]

# DITA Profiling attributes

<http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/archSpec/base/condproc.html#condproc>

- Default profiling attributes: @audience, @deliveryTarget, @otherprops, @platform, and @props
- Custom profiling attribute names creating by specialization.



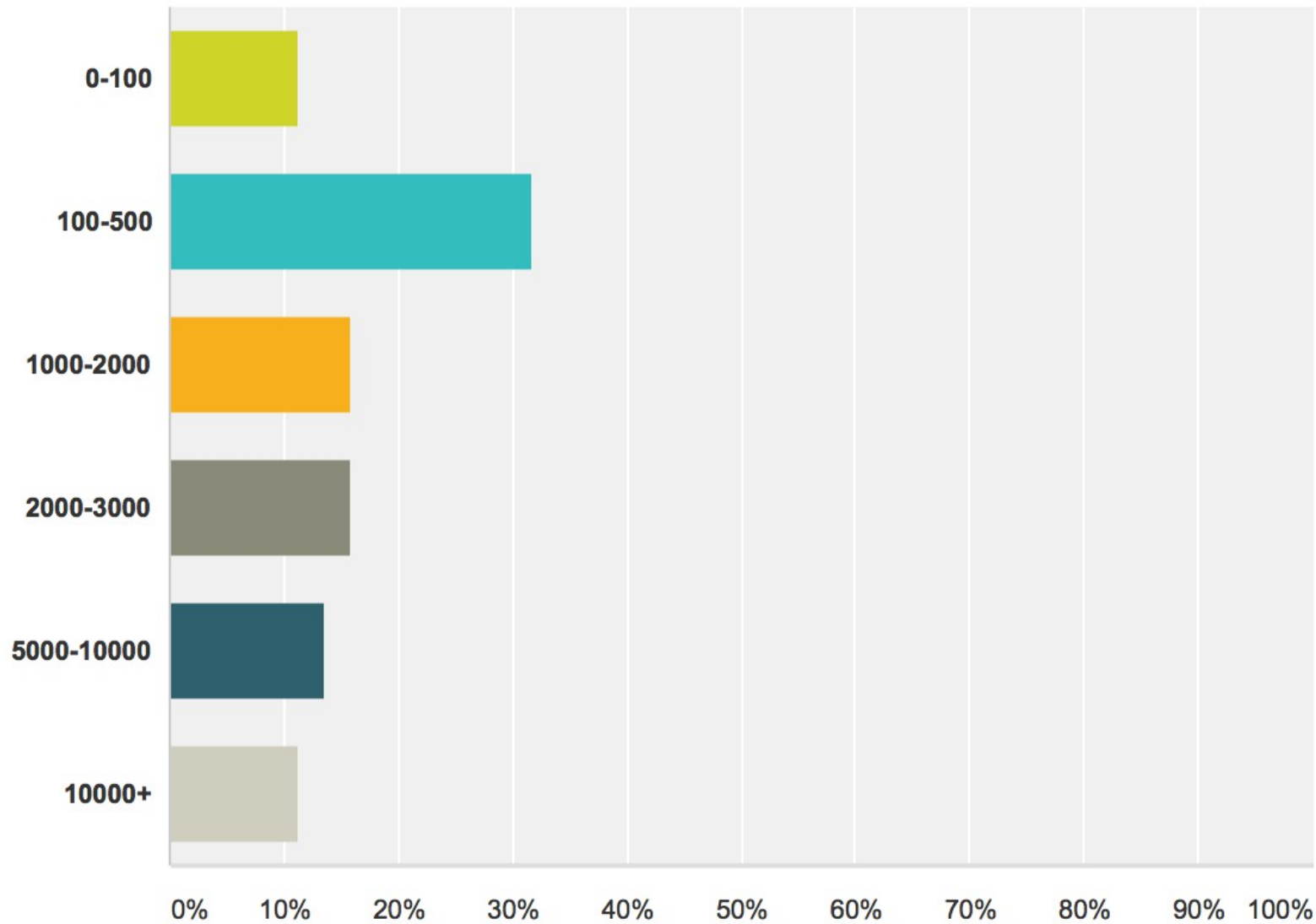
# DITA Filtering

<http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/containers/ditaval-elements.html>

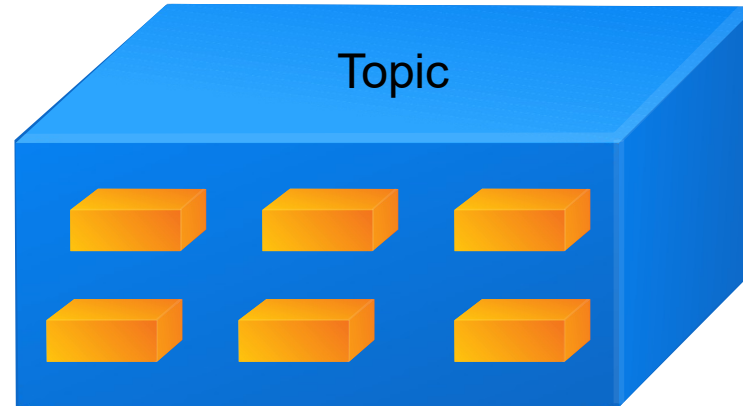
- Exclude elements based on various value combinations.
- Flag/Passthrough elements.

# How many topics are in your DITA-based project?

Answered: 44 Skipped: 0



# Reuse fragments of content



- Content references
- Content key references
- Content reference ranges
- Content push
- Key references

# Content references

<http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/archSpec/base/conref.html#conref>

Reusable component

```
<ul id="minimum_cpu_usage">
  <li>Minimum - Intel Pentium III class processor, 1 <term>GHz</term>.</li>
  <li>Recommended - Dual Core class processor.</li>
</ul>
```

```
<ul conref="path/to/reusables.dita#topicID/minimum_cpu_usage"/>
```

Conref

## CPU

- Minimum - Intel Pentium III™/AMD Athlon™ class processor, 1 GHz.
- Recommended - Dual Core class processor.

Preview



# Tips

- Keep all your reused content in special topics located in special folders.
- Keep a description for each reused element.

## ▼ Shortcuts List

Shortcut	Description
▷▷ <u>Alt + LeftArrow</u> ◀◀	Promotes the current node.
▷▷ <u>Alt + RightArrow</u> ◀◀	Demotes the current node.
▷▷ <u>Alt + Shift + Comma</u> ◀◀	Deletes the start and end tag of the current element (Eclipse).
▷▷ <u>Alt + Shift + ForwardSlash</u> ◀◀	Inserts the last tag used by the ▷ <b>Surround with tag</b> ◀ action (Eclipse).
▷▷ <u>Alt + Shift + E</u> ◀◀	Allows you to choose a tag that encloses a selected portion of content (Eclipse).
▷▷ <u>Alt + Shift + Enter</u> ◀◀	Allows you to edit the attributes of the selected component in Design

# Content key references

Reusable component

```
<ul id="minimum_cpu_usage">
  <li>Minimum - Intel Pentium III class processor, 1 <term>GHz</term>.</li>
  <li>Recommended - Dual Core class processor.</li>
</ul>
```

```
<keydef keys="reusable-install" href="reusables/reusable.installation.dita"/>
```

Conkeyref

```
<dd conkeyref="reusable-install/minimum_cpu_usage"/>
```

Preview

## CPU

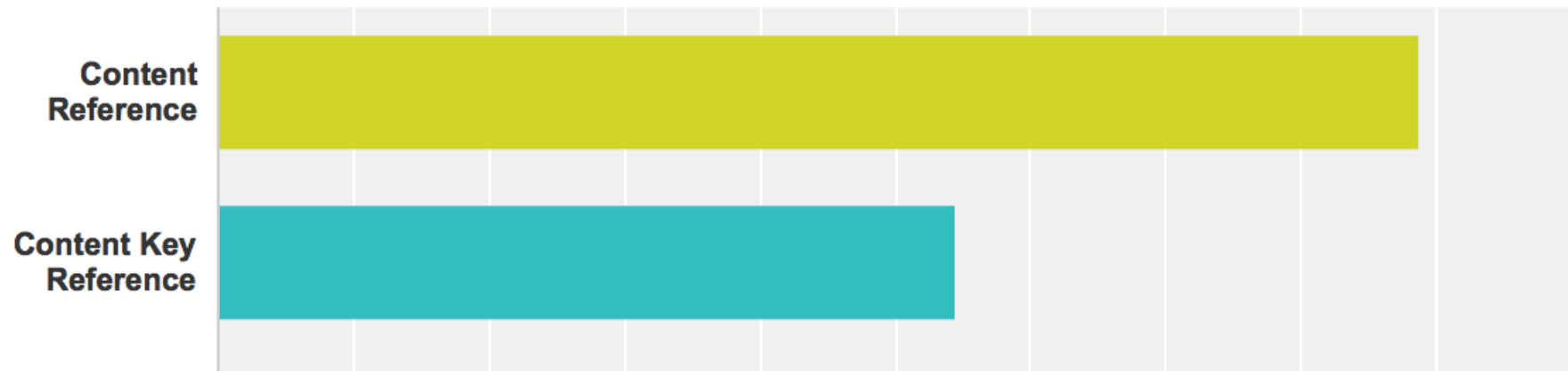
- Minimum - Intel Pentium III™/AMD Athlon™ class processor, 1 GHz.
- Recommended - Dual Core class processor.



# Tips

- Use a special DITA Map for defining reusable keys
- Use conkeyrefs instead of conrefs.

# Conrefs vs conkeyrefs?





# Content reference ranges

```
<steps>
  <step id="washing">
    <cmd>Wash the vegetables thoroughly.</cmd>
  </step>
  .....
  <step id="peeling">
    <cmd>Pass the peeler gently over the vegetable.</cmd>
  </step>
</steps>
```

Reusable components

```
<keydef keys="reusable_steps" href="reusable_steps.dita"/>
```

```
<steps>
  <step conkeyref="reusable_steps/washing" conrefend="default.dita#default/peeling">
    <cmd/>
  </step>
</steps>
```

Conkeyref range

1. Wash the vegetables thoroughly.
2. Put on some thick mittens.
3. Pass the peeler gently over the vegetable.

Preview

# Key references (Variables)

Reuse simple variables like product name, executable, etc.

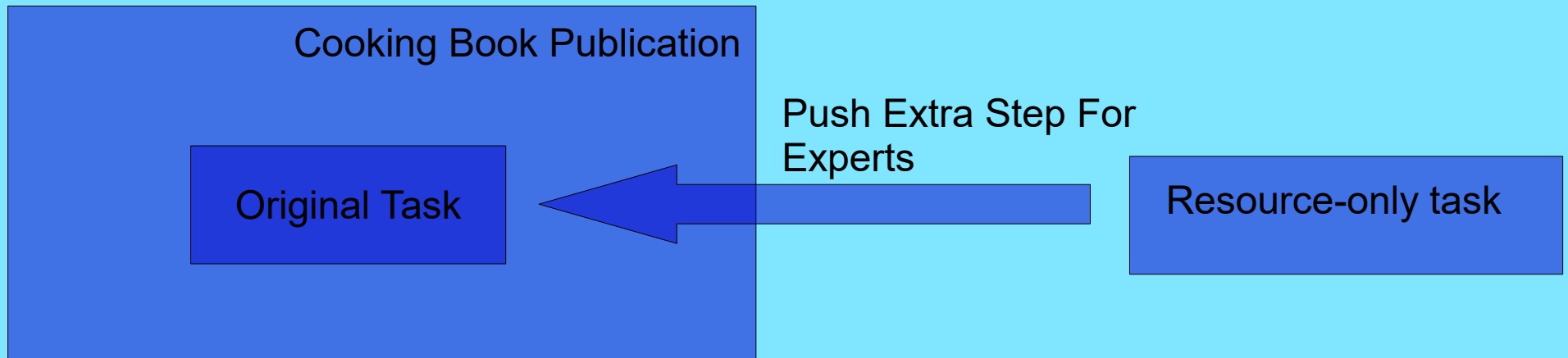
```
<!-- product name -->  
<keydef keys="product" product="editor">  
  <topicmeta>  
    <keywords>  
      <keyword>Oxygen XML Editor</keyword>  
    </keywords>  
  </topicmeta>  
</keydef>
```

```
<title>Installation Options for <ph keyref="product"/></title>
```

**Installation Options for Oxygen XML Editor**

# Why push content?

Cooking Book for Pros Publication



# Content push

Original steps

```
<steps>
.....
<step id="peeler_handling">
  <cmd>Pass the peeler gently over the vegetable.</cmd>
</step>
</steps>
```

```
<keydef href="stepsPusher.dita" keys="peeling"/>
```

Conkeyref push

```
<steps>
  <step conaction="mark" conkeyref="peeling/peeler_handling">
    <cmd/>
  </step>
  <step conaction="pushafter">
    <cmd>Read the instructions.</cmd>
  </step>
</steps>
```

1. Wash the vegetables thoroughly.
2. Put on some thick mittens.
3. Pass the peeler gently over the vegetable.
4. Read the instructions.

Preview

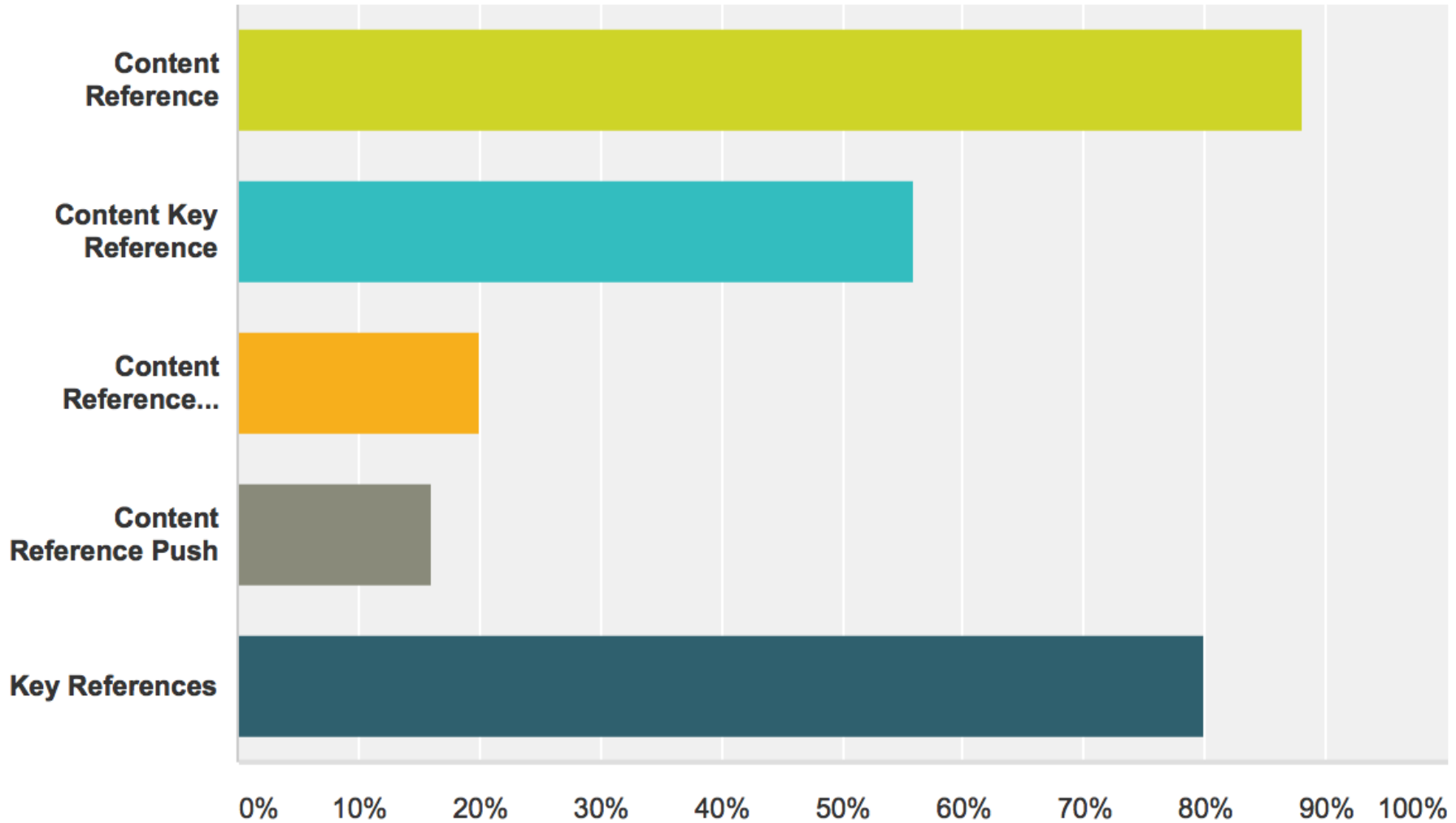
# Pushing content capabilities

<http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/attributes/theconactionattribute.html>

- Replace element.
- Push before.
- Push after element.

# Please check all features that you are currently using:

Answered: 25 Skipped: 0



# DITA 1.3 contributions to Reuse.

- Reuse topic with variable content depending on context (keyscopes).

<http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/attributes/the-key-scope-attribute.html>

- Reuse the same content profiled in various ways in the same publication (branch filtering).

<http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/base/ditavalref.html>

# Reuse with Key Scopes





```
<title><ph keyref="model"/> Phone Overview</title>
```

Product key reference

Various key values in various scopes

```
.....  
<topicref href="phoneOverview.dita" keyscope="X1000Scope">  
  <keydef keys="model">  
    <topicmeta><keywords><keyword>X1000</keyword></keywords></topicmeta>  
  </keydef>
```

```
.....  
<topicref href="phoneOverview.dita" keyscope="X2000Scope">  
  <keydef keys="model">  
    <topicmeta><keywords><keyword>X2000</keyword></keywords></topicmeta>  
  </keydef>
```

-  **X1000 Phone Overview**
  -  Brief Specifications
  -  Available Colors and Accessories
-  **X2000 Phone Overview**
  -  Brief Specifications
  -  Available Colors and Accessories

Preview









# Reuse with Branch Filtering

Merge two product documentation maps

```
.....  
<topicref href="phoneDetails.ditamap" format="ditamap">  
  <ditavalref href="ditaval/X1000Branch.ditaval">  
    <ditavalmeta><dvrResourceSuffix>1</dvrResourceSuffix></ditavalmeta>  
  </ditavalref>  
</topicref>
```

```
.....  
<topicref href="phoneDetails.ditamap" format="ditamap">  
  <ditavalref href="ditaval/X2000Branch.ditaval">  
    <ditavalmeta><dvrResourceSuffix>2</dvrResourceSuffix></ditavalmeta>  
  </ditavalref>  
</topicref>
```

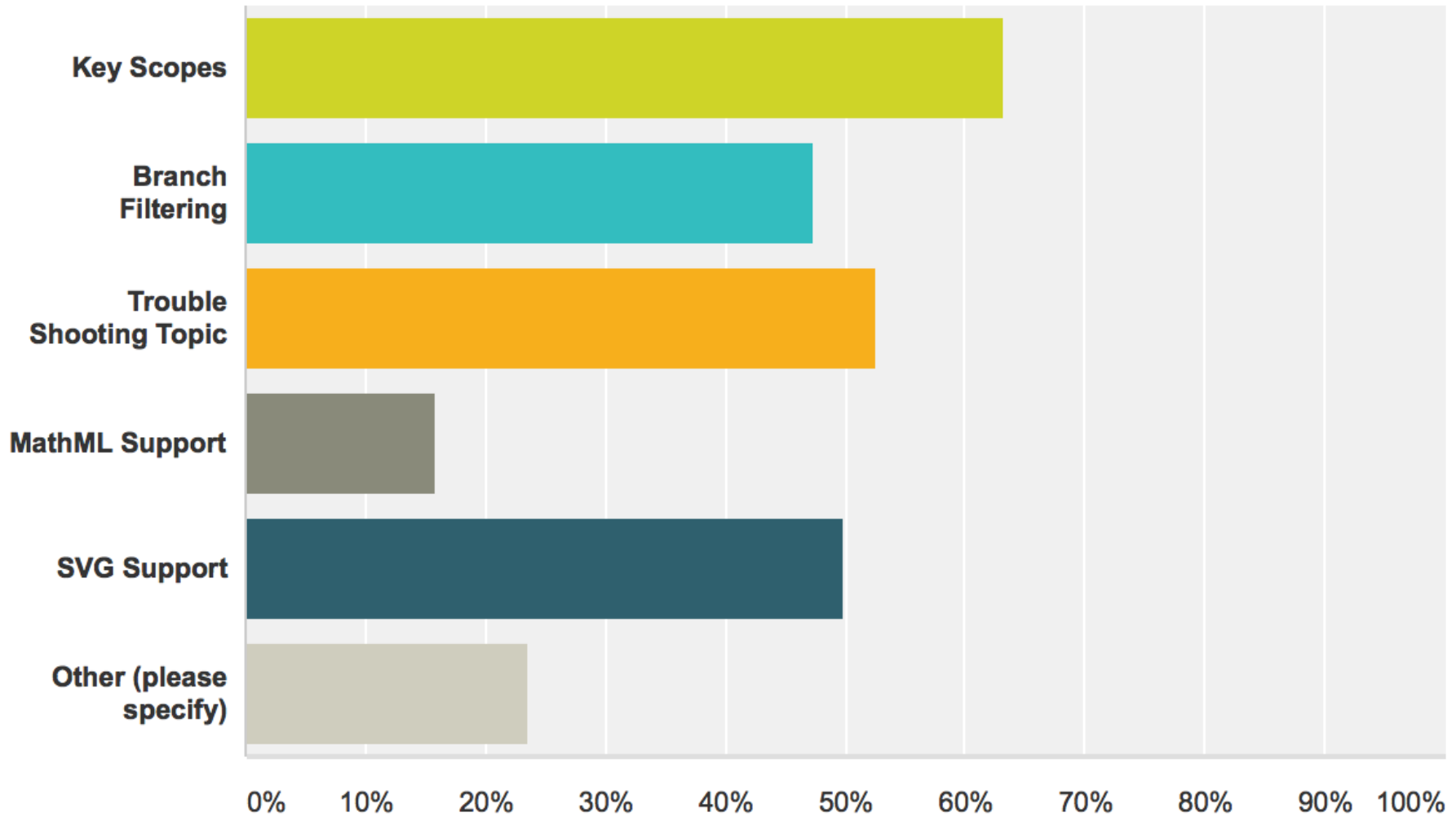
```
.....
```

-  **X1000 Phone Overview**
  -  Brief Specifications
  -  Available Colors and Accessories
-  **X2000 Phone Overview**
  -  Brief Specifications
  -  Available Colors and Accessories

Preview

# Please check all DITA 1.3 features that you plan to use:

Answered: 38 Skipped: 6



# Reuse non-DITA resources in multiple publications.

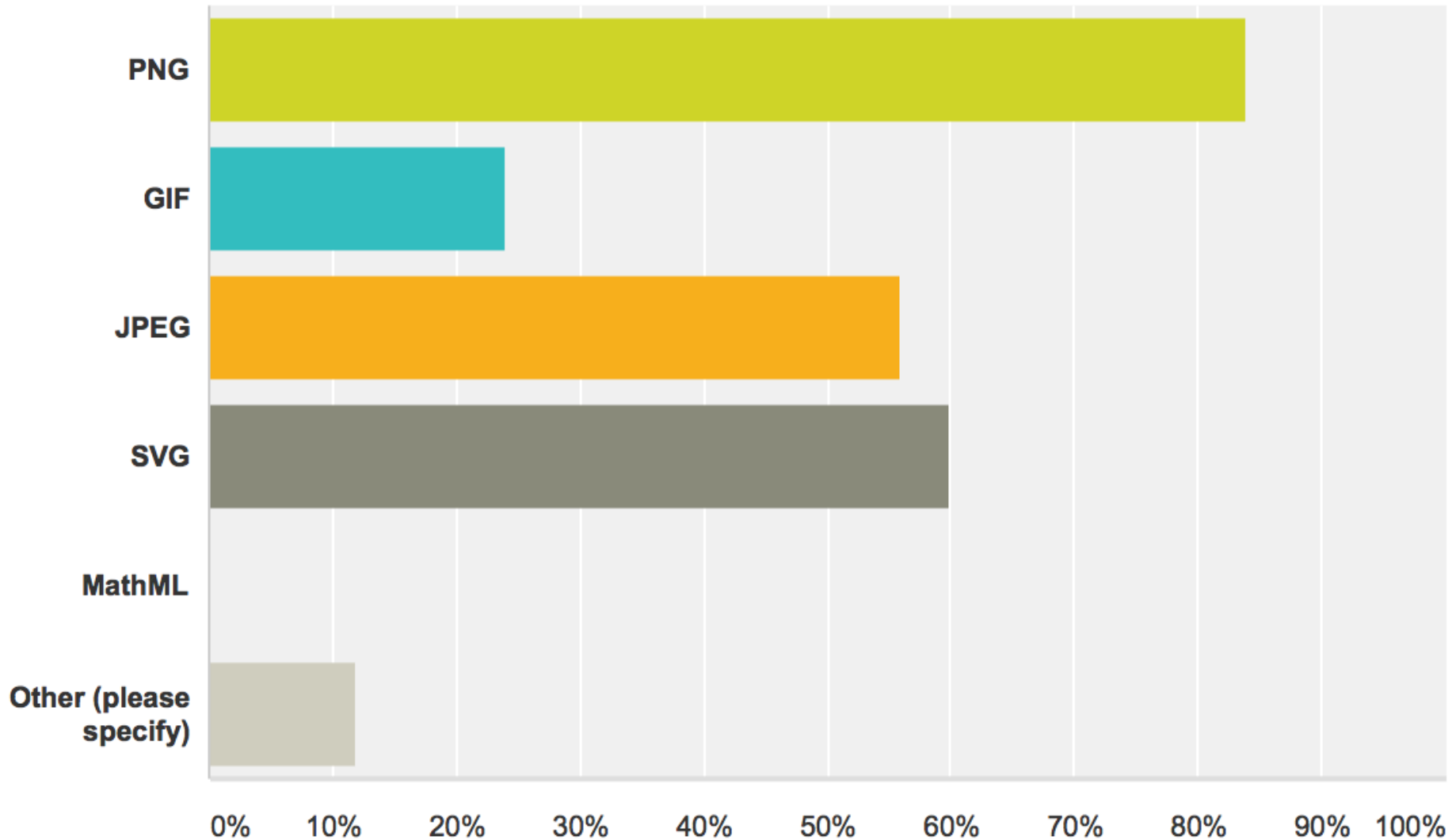
- Reuse images (href or keyref).
- Reusing blocks of content from other files (href or keyref).
- Reuse videos and reuse other resources (DITA).



- Choose your image format wisely (suggestion: PNG).
- Try to scale images before referring to them.

# What image formats are you using?

Answered: 25 Skipped: 0



# Advantages of Content Reuse

- Reuse content in multiple similar publications.
- Consistent content (product names, notes, etc).
- Lower translation costs (with DITA-aware agencies).

Your opinion is important to us! Please tell us what you thought of the lecture. We look forward to your feedback via smartphone or tablet under **<http://ta15.honestly.de>** or scan the QR code

The feedback tool will be available even after the conference!

# Thank You!

## Questions?

Radu Coravu  
radu\_coravu@oxygenxml.com  
@radu\_coravu