

# XSLT Development with <oXygen/>

## Part1: Editing, Validation and Transformation

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# Generate HTML

- Create a stylesheet to generate an HTML file



```
<books>
  <book targeturi="bookTargetUri">
    <title>XSLT 2.0 Programmer's Reference</title>
    <author>Michael Kay</author>
    <image description="XSLT 2.0" src="XSLT.jpg"/>
    <paperback>955 pages</paperback>
    <publisher>Wrox</publisher>
    <isbn>0764</isbn>
    <description>XSLT 2.0 Programmer's Reference,
      3rd Edition, is the authoritative reference
      guide to the language</description>
  </book>
</books>
```



## [XSLT 2.0 Programmer's Reference](#)

*by Michael Kay*

**Paperback:** 955 pages | **Publisher:** Wrox | **Isbn:** 0764

XSLT 2.0 Programmer's Reference, 3rd Edition, is the authoritative reference guide to the language.

# Demo – step 1

- Create new stylesheet
- Add some XSLT elements



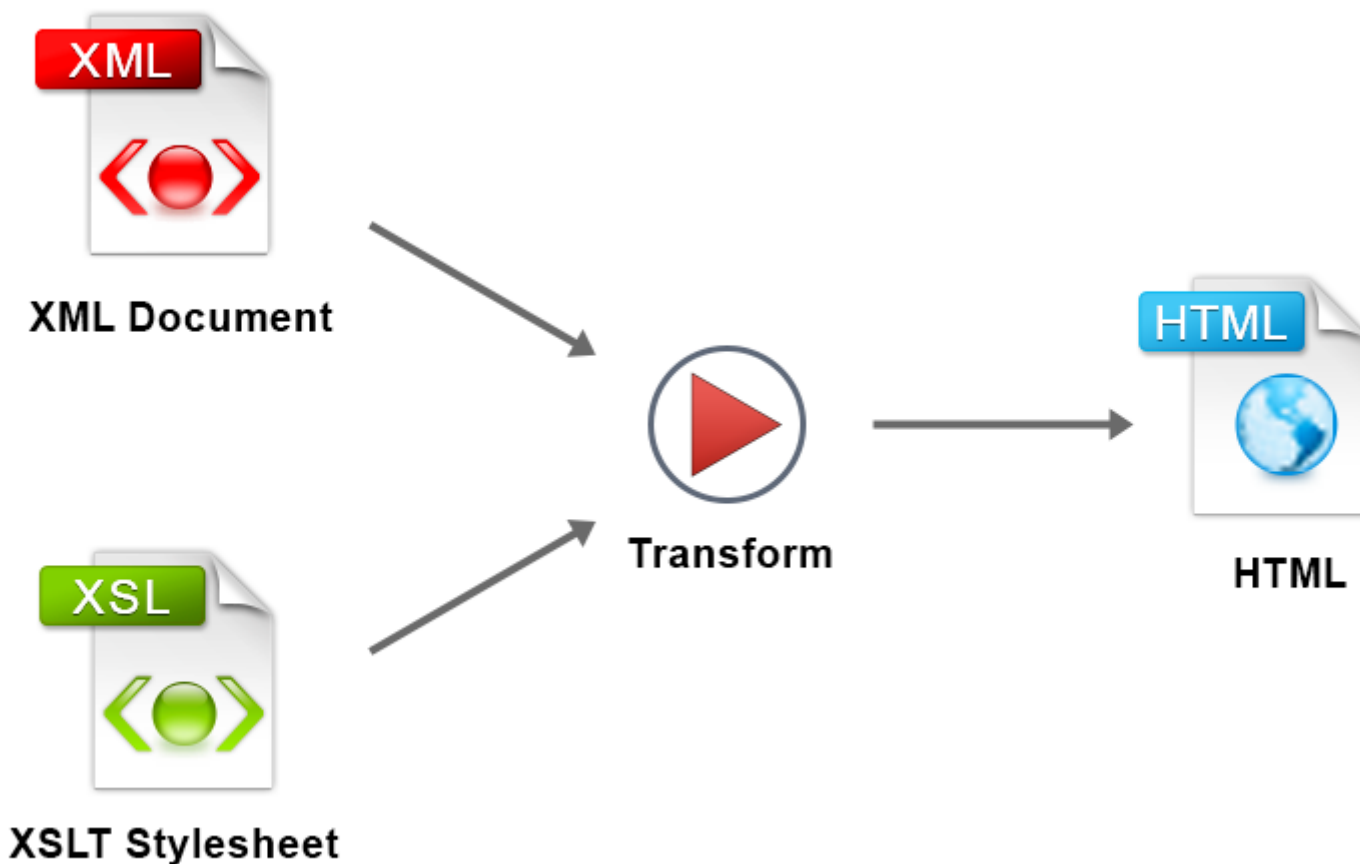
**XSLT Stylesheet**

# Conclusion

- Wizard dialog to create a new XSLT
- Used the XSLT 2.0
- Documentation for stylesheet components
- Content completion XSLT and XPath
- Documentation for XSLT and XPath elements
- Validation as you type

## Demo – step 2

- Associate the XML with the XSL and generate an output

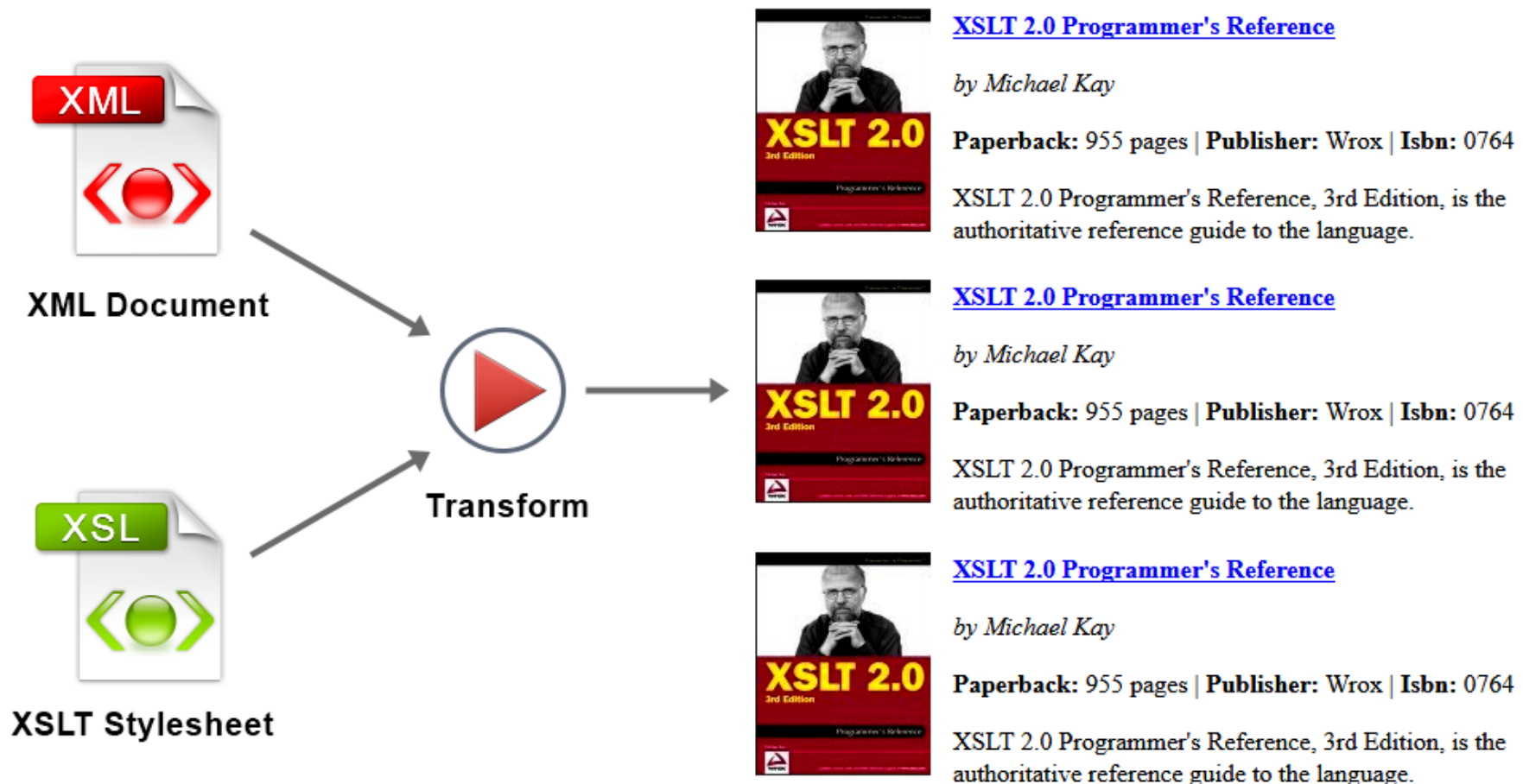


# Conclusion

- Configure a transformation scenario
- Save the scenario in project or global options
- Multiple transformation engines
- FO Processing
- Save or preview the transformation result

# Demo – step 3

- Generate a table with books



# Conclusion

- XSLT Input view
- XPath default namespace
- Content completion presents XML elements
- Content completion aware of context



# Demo – step 4

- Generate books images

## XML

```
<books>
  <book targeturi="bookTargetUri">
    <title>XSLT 2.0 Programmer's Reference</title>
    <author>Michael Kay</author>
    <image description="XSLT 2.0" src="XSLT.jpg"/>
    <paperback>955 pages</paperback>
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      3rd Edition, is the authoritative reference
      guide to the language</description>
  </book>
</books>
```

## HTML



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# Conclusion

- Code templates allows us to insert small document fragments
- The content completion presents the attributes from the XML document available in context

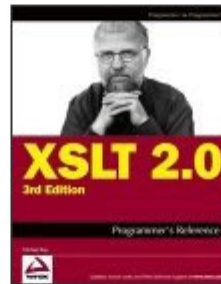
# Demo – step 5

- Generate title with link

## XML

```
<books>
  <book targeturi="bookTargetUri">
    <title>XSLT 2.0 Programmer's Reference</title>
    <author>Michael Kay</author>
    <image description="XSLT 2.0" src="XSLT.jpg"/>
    <paperback>955 pages</paperback>
    <publisher>Wrox</publisher>
    <isbn>0764</isbn>
    <description>XSLT 2.0 Programmer's Reference,
      3rd Edition, is the authoritative reference
      guide to the language</description>
  </book>
</books>
```

## HTML



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# Conclusion

- Variables presented in content completion
- Create template from selection
- Preview the result of the refactoring action

# Demo – step 6

- Generate author in output

## XML

```
<books>
  <book targeturi="bookTargetUri">
    <title>XSLT 2.0 Programmer's Reference</title>
    <author>Michael Kay</author>
    <image description="XSLT 2.0" src="XSLT.jpg"/>
    <paperback>955 pages</paperback>
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    <isbn>0764</isbn>
    <description>XSLT 2.0 Programmer's Reference,
      3rd Edition, is the authoritative reference
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  </book>
</books>
```

## HTML



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# Conclusion

- Drag and drop nodes from the XSLT Input view to create elements in stylesheet

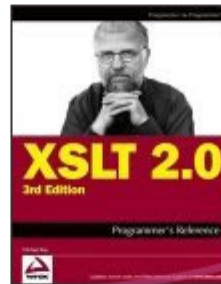
# Demo – step 7

- Generate book info in output

## XML

```
<books>
  <book targeturi="bookTargetUri">
    <title>XSLT 2.0 Programmer's Reference</title>
    <author>Michael Kay</author>
    <image description="XSLT 2.0" src="XSLT.jpg"/>
    <paperback>955 pages</paperback>
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    <isbn>0764</isbn>
    <description>XSLT 2.0 Programmer's Reference,
      3rd Edition, is the authoritative reference
      guide to the language</description>
  </book>
</books>
```

## HTML



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# Conclusion

- The code template helps you to insert XSLT document fragments easily
- The caret position is in the attribute value and the content completion is started



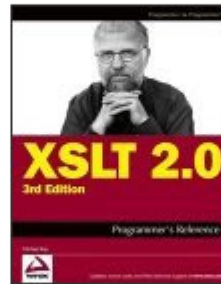
# Demo – step 8

- Generate description in output

## XML

```
<books>
  <book targeturi="bookTargetUri">
    <title>XSLT 2.0 Programmer's Reference</title>
    <author>Michael Kay</author>
    <image description="XSLT 2.0" src="XSLT.jpg"/>
    <paperback>955 pages</paperback>
    <publisher>Wrox</publisher>
    <isbn>0764</isbn>
    <description>XSLT 2.0 Programmer's Reference,
      3rd Edition, is the authoritative reference
      guide to the language</description>
  </book>
</books>
```

## HTML



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# Conclusion

- Create a stylesheet from scratch
  - XSLT and XPath content completion
  - XSLT Input view
  - Code templates
- Validation
  - Validation as you type
  - Highlight errors
- Transformation
  - Transformation scenarios
  - Multiple engines

# Demo – step 9

- Identify XSLT component occurrences
- Rename an XSLT component

# Conclusion

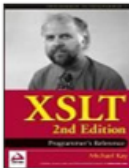
- Easy Identification of XSLT Component References

```
<xsl:template name="output.html.stylesheets">
  <xsl:param name="stylesheets" select="''"/>
  <xsl:choose>
    <xsl:when test="contains($stylesheets, ' ')">
      <link
        href="{substring-before($stylesheets, ' ')}">
      </link>
      <xsl:call-template name="output.html.stylesheets">
        <xsl:with-param select="$stylesheets" name="stylesh
      </xsl:call-template>
    </xsl:when>
    <xsl:when test="$stylesheets != ''">
      <link rel="stylesheet" href="{ $stylesheets}">
```

# Demo – step 10

- Group the books by technology

## XSLT Books



### [XSLT : Programmer's Reference \(Programmer to Programmer\)](#)

by Michael Kay

**Paperback:** 992 pages | **Publisher:** Wrox; 2 edition (May 3, 2001) | **Isbn:** 0764543814

This compact, relevant, updated version reflects recent changes in the XSLT specification and developments in XSLT



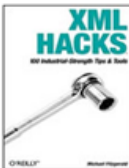
### [Learning XSLT](#)

by Michael Fitzgerald

**Paperback:** 368 pages | **Publisher:** O'Reilly; 1 edition (November 18, 2003) | **Isbn:** 0596003277

Learning XSLT moves smoothly from the simple to complex, illustrating all aspects of XSLT 1.0 through step-by-step

## XML Books

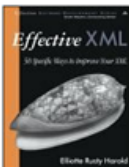


### [XML Hacks 100 Industrial-Strength Tips & Tools](#)

by Michael Fitzgerald

**Paperback:** 478 pages | **Publisher:** O'Reilly; 1 edition (July 27, 2004) | **Isbn:** 0596007116

Developers and system administrators alike are uncovering the true power of XML, the Extensible Markup Language



### [Effective XML: 50 Specific Ways to Improve Your XML](#)

by Elliott Rusty Harold

**Paperback:** 336 pages | **Publisher:** Addison-Wesley Professional; 1st edition (September 12, 2003) | **Isbn:** 0321150406

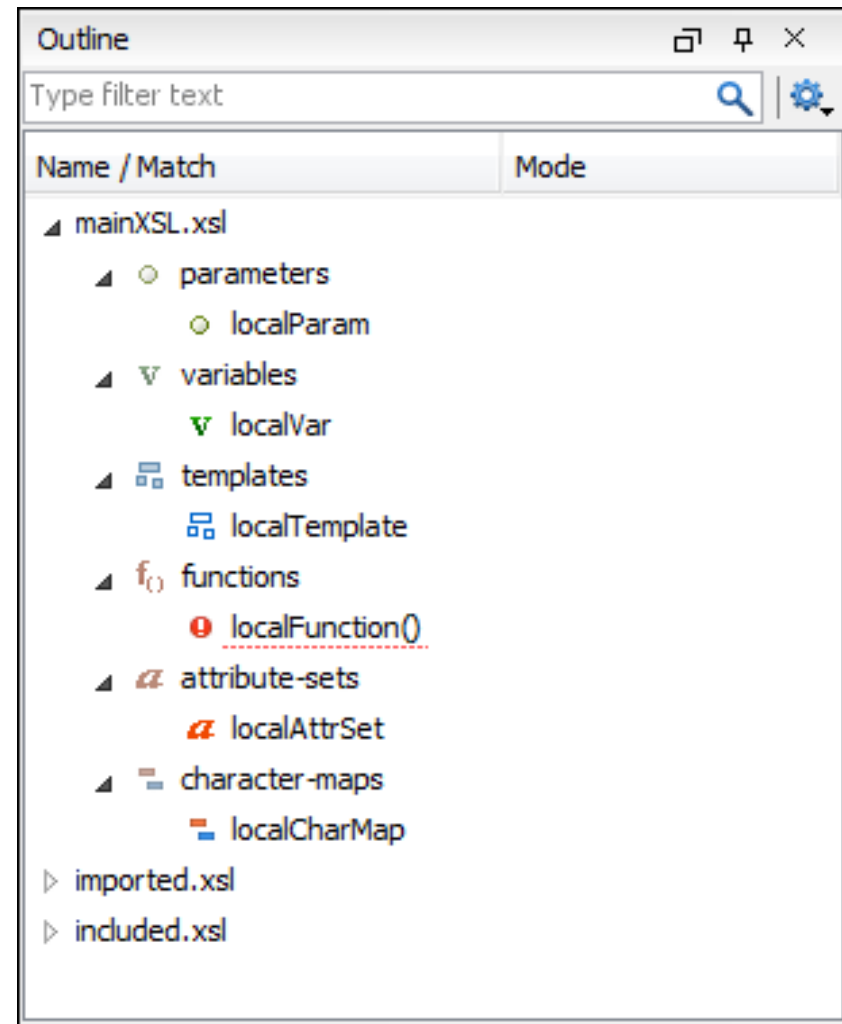
Elliott Rusty Harold provides you with 50 practical rules of thumb based on real-world examples and best practices.

# Conclusion

- The XPath toolbar
- XPath builder for complex expressions
- XPath 1.0, 2.0, 3.0
- Content completion

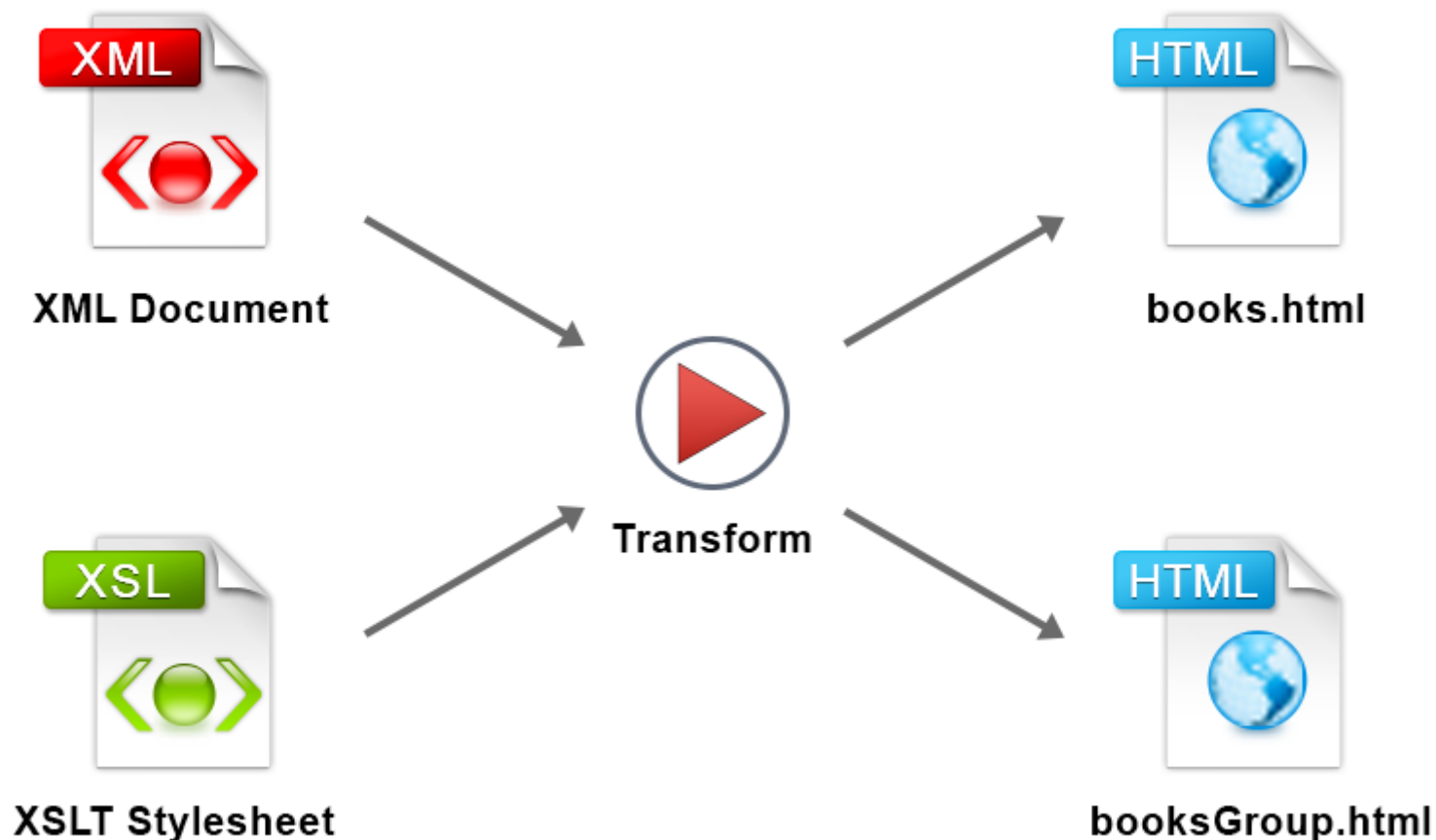
# XSLT Outline

- Parameters
- Variables
- Templates
- Functions
- Attribute-sets
- Character-maps



# Demo – step 11

- Generate two HTML files





# Conclusion

- Parameters are detected from the stylesheet
- Pass the value of the parameter
- Perform multiple transformations
- Use Transformation view

# Demo – step 12

- Document your stylesheet

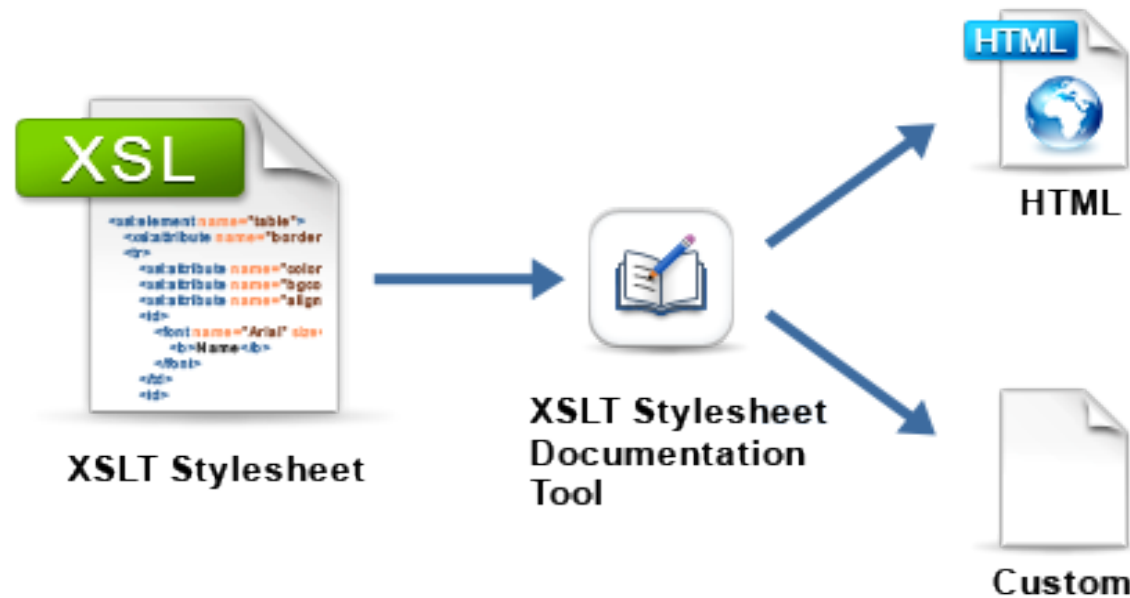


# Conclusion

- <oXygen/> provides a built-in schema for documentation
- You can use other languages like HTML, DocBook, Dita or your own custom language
- Action to add documentation for a component

# XSLT Documentation

## The XSLT documentation support



# Conclusion

- Generate documentation in HTML or custom format
- Table of Contents
- Link between components
- User documentation
- Show/Hide documentation details

# Thank you!

## Questions?

<oXygen/> XML Editor  
<http://www.oxygenxml.com>  
[octavian\\_nadolu@oxygenxml.com](mailto:octavian_nadolu@oxygenxml.com)  
[@OctavianNadolu](#)

# Q&A

Answers to your questions

If your question is not answered now, we will be in touch with an answer by email after the webinar.

The recording of the webinar will be available from our events page:

[http://www.oxygenxml.com/events\\_programme.html#pastevents](http://www.oxygenxml.com/events_programme.html#pastevents)