

Enforce Style Guide Rules

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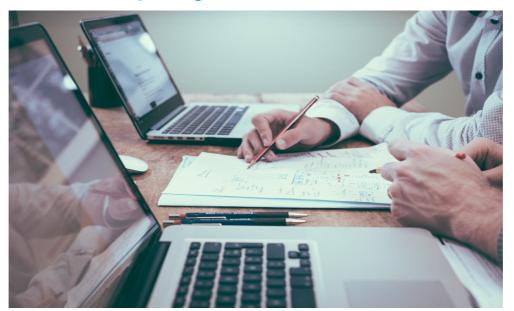






Overview

- Technical documentation projects
- Achieve accurate, consistent documentation that conforms to your project guidelines
- How to define style guide rules for your documentation projects





Technical Documentation

- User or system manuals
- Help documentation
- Training material
- Work instructions

Can be defined as information about a product.



Example

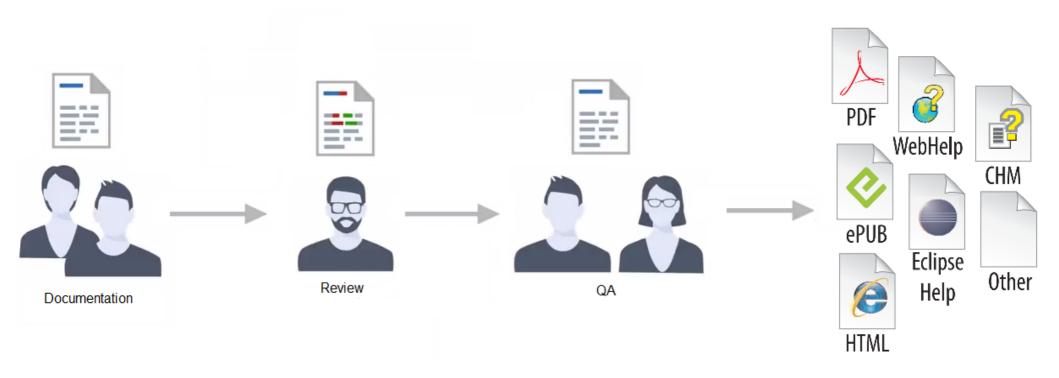
- <oXygen/> User Manual
- DITA project <dita>
- About 2600 topics







Documentation Process





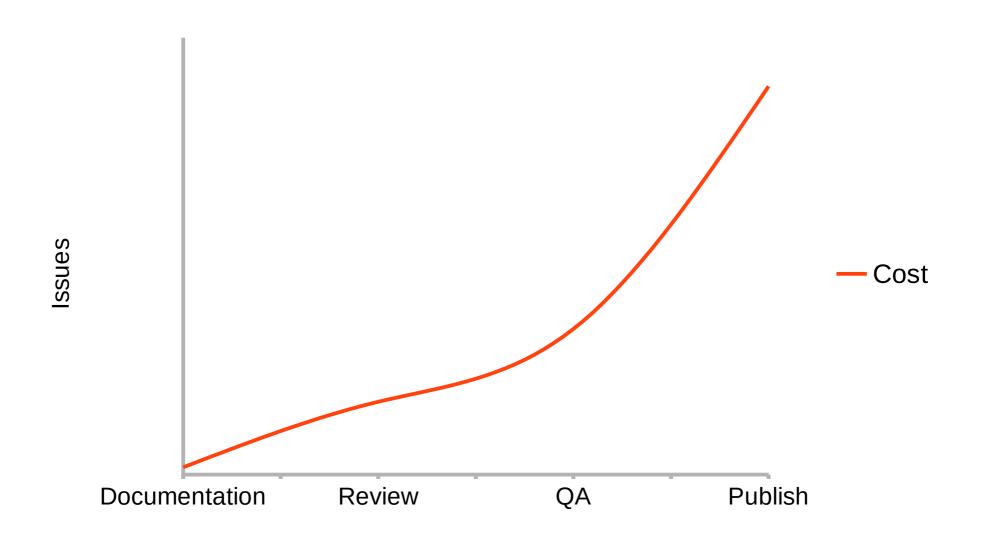
Challenges

- Maintaining consistency for all documents
- Impose a structure and a set of styling rules
- Avoid known issues in documentation output





Cost-Efficiency





Solutions

- Prevent issues by defining rules
- Detect the issues at the earliest editing stage
- Propose consistent solutions to solve the issues





Impose Structure





Document Structure Rules

- Impose a document structure using a schema language:
 - DTD
 - XML Schema
 - Relax NG
 - NVDL

Oxygen supports all schema languages



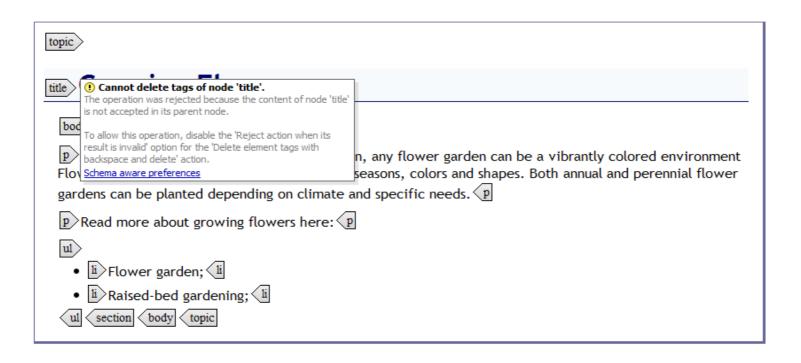
Content Completion and Annotations





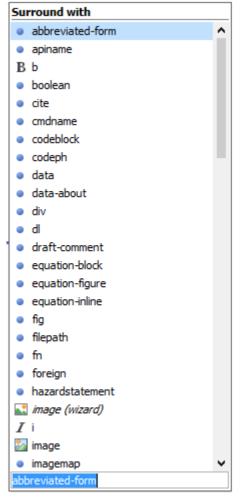
Show Hints

- Signal document structure problems
- Preferences to change the schema-aware options

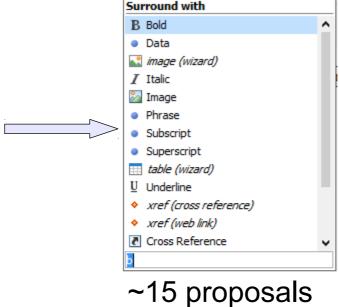




Limit the Number of Proposals



~90 proposals



- Configure the proposals for elements and attributes
- Lightweight DITA <dita>
- Controlled Values & Markup Options



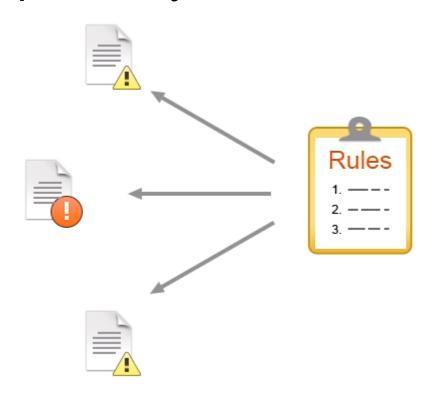
Conclusions

- Impose a structure
- Suggestions to insert valid markup
- Annotations to help you understand what the markup represents
- Links to additional information and style guides
- Powerful schema-aware support



Impose Business Rules

Rules for your documents that cannot be imposed by the schema



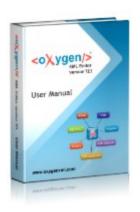
Examples:

- Titles should have content
- Consecutive lists are not allowed
- IDs must follow a certain pattern
- Consecutive notes of a same type
- Too many entries in a table row
- Sections must have IDs
- Titles are too long
- ...



Example

 For <oXygen/> User Manual we defined more than 200 rules.







Rules Check Challenges

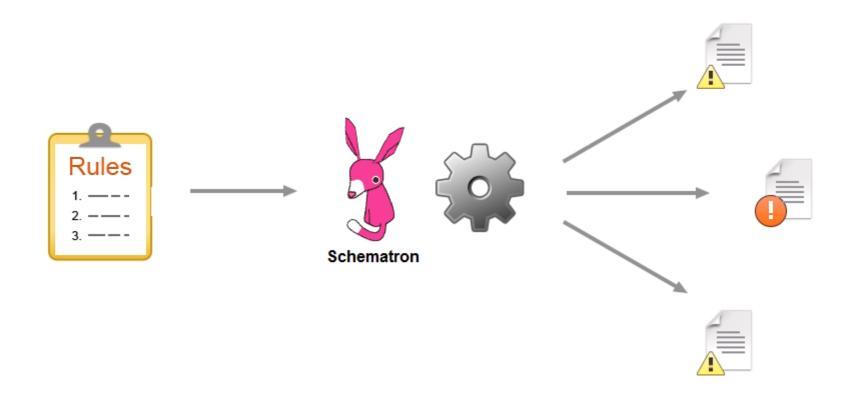
- Documentation team members needs to remember all rules
- Determine if a rule is violated
- Provide also consistent solutions to correct the problems





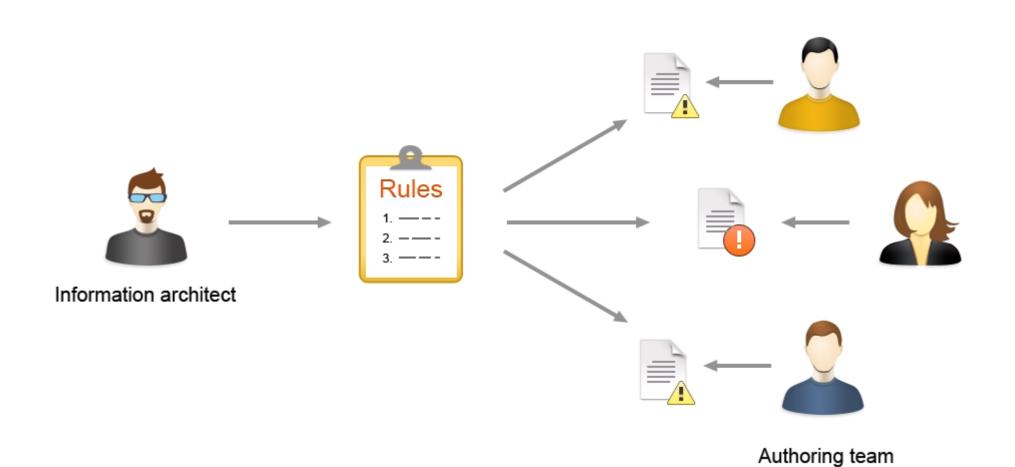
Automatic Check Rules

Implement automatic checks for rules using Schematron





Rules for All Documents and Authors



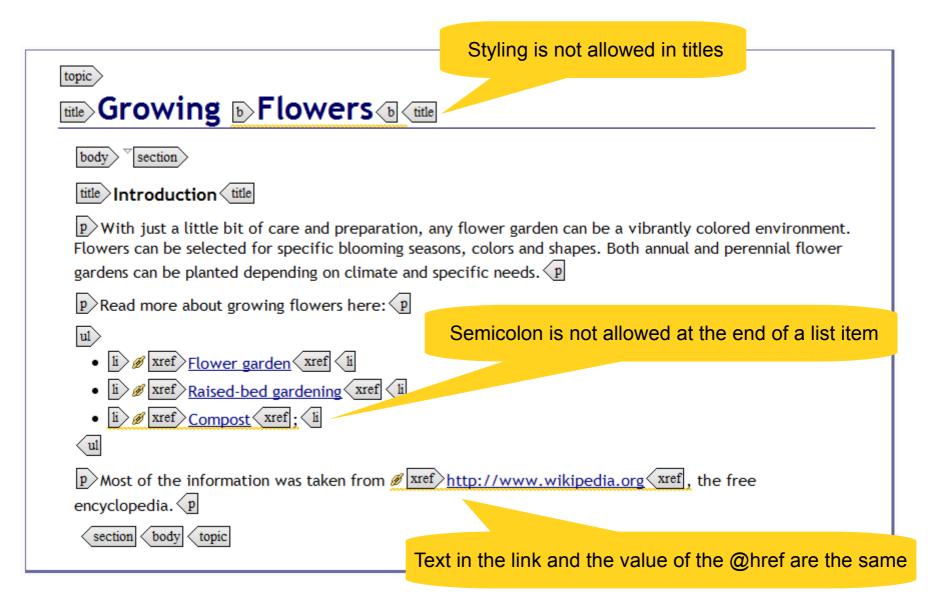


Example

- Create a simple documentation project
- Apply a set of business rules for all the documents

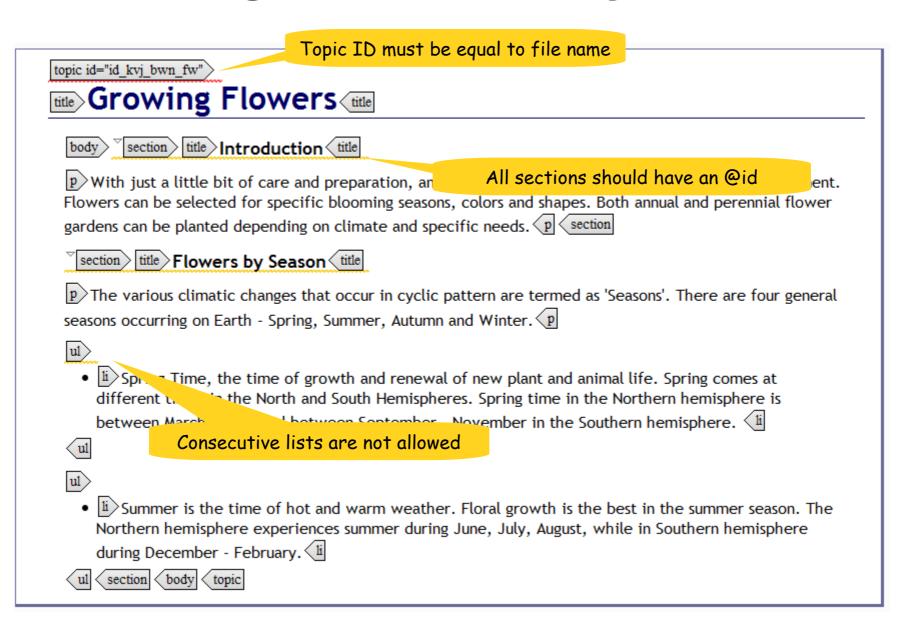


Simple Style Rules



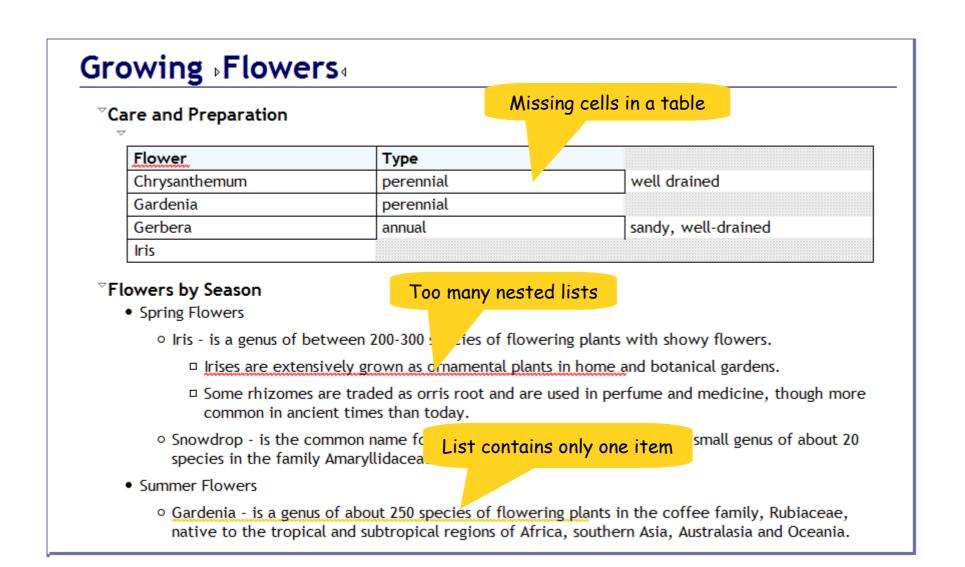


Editing Consistency Rules





Structure Rules





Output Related Rules

Sample

[▽]On **Linux**⁴, the Java command should look like this:

```
bjava -Xmx600m -XX:MaxPermSize=256m "-Dcom.oxygenxml.editor.plugins.dir=$OXYGEN_HOME/plugins"⁴

bjava -Xmx600m -XX:MaxPermSize=256m\
   "-Dcom.oxygenxml.editor.plugins.dir=$AUTHOR_HOME/plugins"⁴

bjava -Xmx600m -XX:MaxPermSize=256m\
   "-Dcom.oxygenxml.editor.plugins.dir=$DEVELOPER_HOME/plugins"\⁴
```

Sample

On Linux, the Java command should look like this:



```
java -Xmx600m -XX:MaxPermSize=256m "-Dcom.oxygenxml.editor.plugins.dir=
$OXYGEN_HOME/plugins"

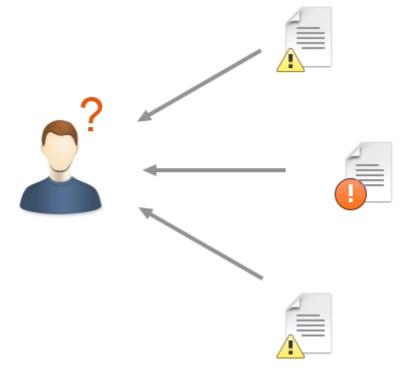
java -Xmx600m -XX:MaxPermSize=256m\
   "-Dcom.oxygenxml.editor.plugins.dir=$AUTHOR_HOME/plugins"

java -Xmx600m -XX:MaxPermSize=256m\
   "-Dcom.oxygenxml.editor.plugins.dir=$DEVELOPER_HOME/plugins"\
```



Consistent Solutions to Correct Problems

- Business rule messages are not always enough for the user to find a solution
- Solutions to automatically apply business rule constraints





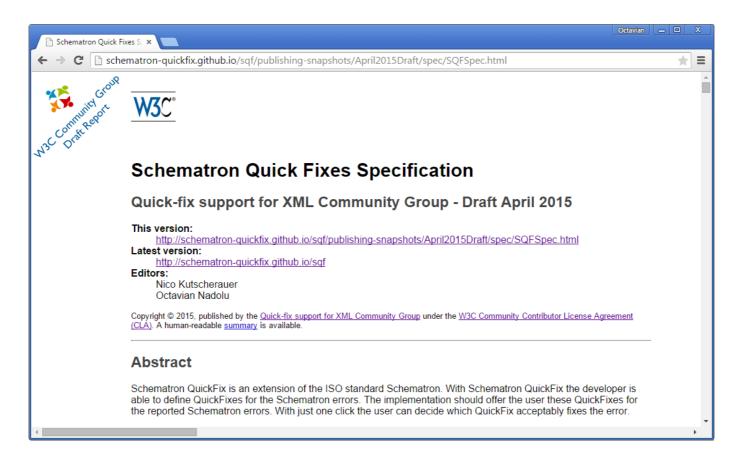
Business Rule Fixes

Implement fix proposals using Schematron QuickFix (SQF) language





Schematron Quick Fixes Spec





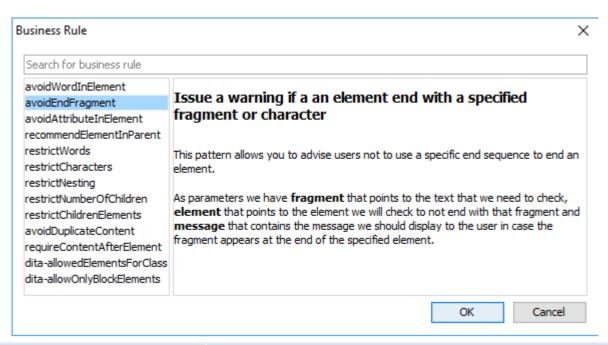


Example

- Create fix proposals for the business rules
- Share the fix proposals with all team



Create Business Rules using DIM



Rule	avoidEndFragment
element	li .
fragment	;
message	Avoid; at the end of a list item



Dynamic Information Model (DIM)

- An implementation of an intelligent style guide
- Describes and enforces rules
- Schematron for Information Architects
 presented by George Bina at XML Prague
- Open source project available on GitHub https://github.com/oxygenxml/dim



Rules Check Advantages

- Detect the issues at editing time
- Prevent problems in the generated output
- All team follows same rules
- Consistent solutions to correct problems





Projects Using Business Rules

- Thieme publishing company uses a custom framework to create and edit XML documents
- parsX a product developed by pagina GmbH used to facilitate EPUB production
- ART-DECOR an open source tool suite that supports SDOs active in the healthcare industry Sample SQF embedded in XSD
- ATX custom framework used by a major automotive manufacturer



Business Rules Fix Proposals

Discover the technology behind the fix proposals for business rules:

- Defining Schematron Quick Fixes
- Understanding and Developing Schematron Quick Fixes
- Schematron Quick Fixes Samples
- Schematron Quick Fixes Specification



Thank you!

Questions?

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