

# Overview of oXygen XML Editor 17

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# oXygen XML Editor 17

Release notes available online at

[http://www.oxygenxml.com/  
whatisnew17.0.html](http://www.oxygenxml.com/whatisnew17.0.html)

# Useful information

- Yes, we will record the webinar!
- Ask questions anytime in the Questions panel
- Use **#oXygenXML** for webinar related tweets

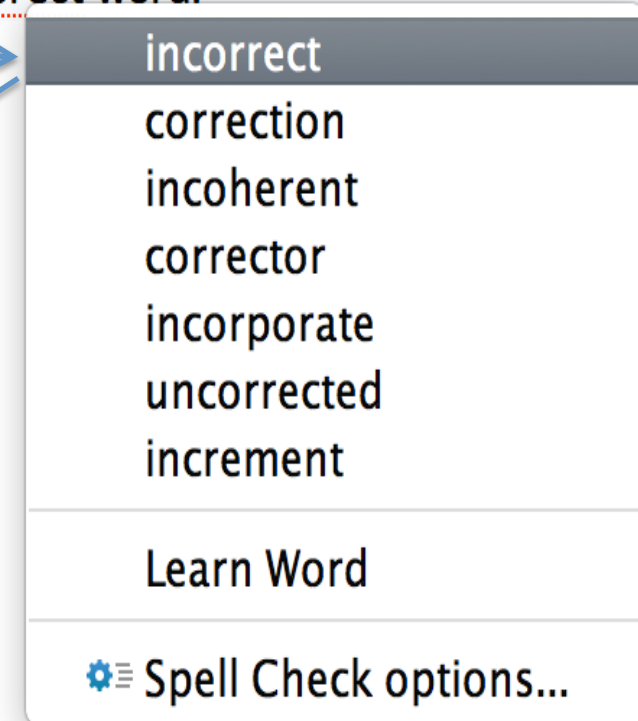
# Automatic error fixes

- What are Quick Fixes?

This is an incorect word.

This is an incorect word.

This is an incorrect word.



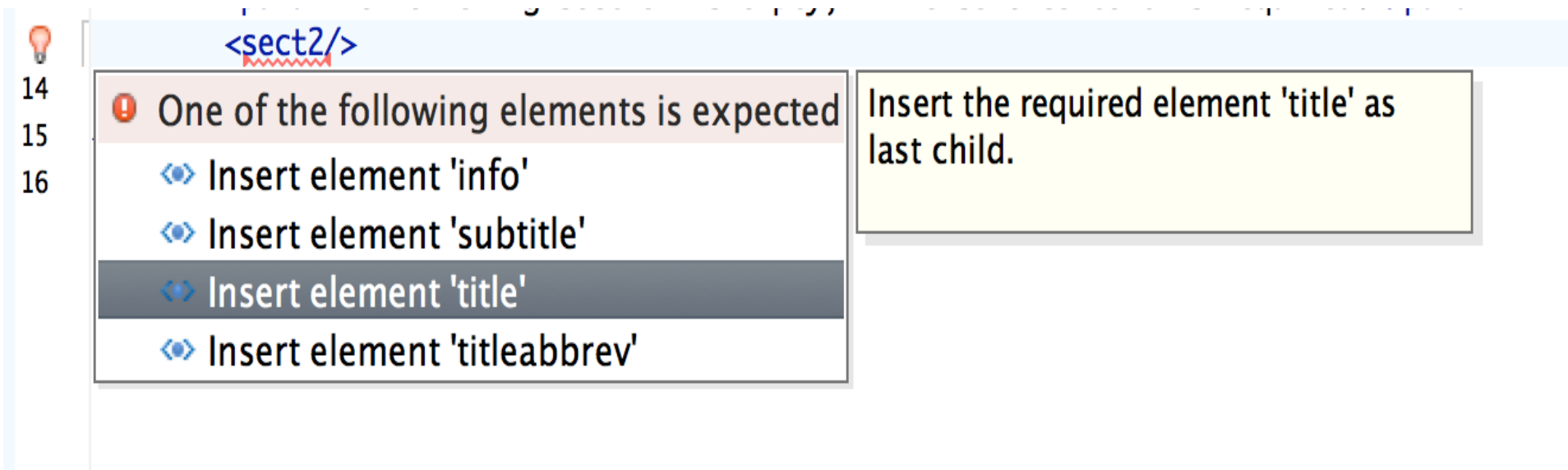
# Quick Fixes in oXygen

- Already available in oXygen 16
  - XSLT
  - Ant scripts
  - XML validated with XML Schema
- New in oXygen 17
  - XML validated with Relax NG
  - XML validated with Schematron

# Fixing Relax NG validation errors

QF examples:

- Add required content
- Remove invalid content

A screenshot of the Oxygen XML Editor interface. On the left, a vertical line of numbers 14, 15, and 16 is visible. A light blue bar highlights the XML tag <sect2/>. Below this, a red error icon is followed by the text "One of the following elements is expected". A list of four options is shown, each with a blue double-headed arrow icon: "Insert element 'info'", "Insert element 'subtitle'", "Insert element 'title'", and "Insert element 'titleabbrev'". The "Insert element 'title'" option is highlighted with a dark grey background. To the right of this list, a yellow box contains the text "Insert the required element 'title' as last child." data-bbox="61 544 978 940"/>

14

15

16

`<sect2/>`

❗ One of the following elements is expected

- ↔ Insert element 'info'
- ↔ Insert element 'subtitle'
- ↔ **Insert element 'title'**
- ↔ Insert element 'titleabbrev'

Insert the required element 'title' as last child.

# Schematron Quick Fixes

- Part of “Guided XML Authoring”
- Custom fixes within the Schematron schema
- SQF initiated by Nico Kutscherauer/data2type
- Quick-fix for XML - W3C Community Group

<https://www.w3.org/community/quickfix/>

# SQF really helps!

TEI community,

Since it hasn't yet been mentioned, I thought it worthwhile to highly recommend oXygen 17's new feature providing support for Schematron Quick Fixes (<http://www.schematron-quickfix.com>).

Some of you may recall an earlier discussion on normalizing Unicode, and the Schematron pattern I offered. That was fine insofar as it identified and located the problem, but it offered no fixes. SQF does just that. Tonight I put together a very simple but powerful SQF that allows a user with two mouse clicks in oXygen to change the errant text of an element into normalized Unicode. I wrote three more SQF patterns to fix editing that was previously took around a minute per change (to look up a value, copy, return where I was originally, and paste it). I think the potential benefit to TEI projects, especially in communicating choices and options to project participants, is quite impressive.

Kudos to Syncro Soft! (See their demo video here: [http://www.oxygenxml.com/demo/Schematron\\_Quick\\_Fixes.html](http://www.oxygenxml.com/demo/Schematron_Quick_Fixes.html) )

Best wishes,

jk

--

Joel Kalvesmaki  
Editor in Byzantine Studies  
Dumbarton Oaks



# AutoCorrect

- teh → the
- (c) → ©
- xml:lang aware

# More about Quick Fixes

W3C community group

<https://www.w3.org/community/quickfix/>

SQF

<http://www.schematron-quickfix.com/index.html>

<http://schematron-quickfix.github.io/sqf/spec/SQFSpec.html>

Webinar

May 27

[oXygen XML Editor 17 - XML Quick Fixes](#)

See all events at:

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

# Process XML with XSLT and XQuery

XSLT and XQuery are the best XML processing languages...

...but we cannot just apply transformations, because we need to:

- preserve attributes order
- preserve DOCTYPE declarations
- preserve entities
- etc.

# XML Refactoring

Apply XQuery Update based operations

- in a “safe” mode, preserving attributes order, DOCTYPE declarations, etc.
- configure parameters easily
- on a set of files (scope)
- present a preview of changes about to be made

XSLT support is planned for the next release

# XML Refactoring

XML Refactoring

**Refactoring operations**

Select a refactoring operation

Q Type filter text

Name	Description
<b>Attributes (4)</b>	
Add/Change attribute	Adds a new attribute or changes the value of an existing one.
Delete attribute	Deletes one or more attributes.
Rename attribute	Renames an attribute.
Replace in attribute value	Searches for a given text fragment inside an attribute value an...
<b>Elements (7)</b>	
Delete element	Deletes one or more elements.
Delete element content	Deletes the content of one or more elements.
Insert element	Inserts a new element at a specific location.
Rename element	Renames one or more elements.
Unwrap element	Deletes the tags of one or more elements, but preserves their...
Wrap element	Surrounds one or more elements with another one.
Wrap element content	Surrounds the content of one or more elements with another o...
<b>XML Fragment (3)</b>	
Insert XML fragment	Inserts an XML fragment at a specific location.
Replace element content with XML...	Replaces the content of one or more elements with an XML fra...
Replace element with XML fragme...	Replaces one or more elements with an XML fragment.

XML Refactoring

**Rename element**

Specify an XPath expression that identifies one or more elements to be renamed.

Target elements (XPath):

New local name:

ⓘ Each prefix used in an XPath expression must be declared in the [Default prefix-namespace mappings](#) section.

# More about XML Refactoring

Webinar

June 3

[oXygen XML Editor 17 - Refactoring XML Documents](#)

See all events at:

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

# Improved user interface

- Retina/HiDPI support
- Dark color theme – Graphite
- Configurable toolbars

# Retina/HiDPI support

Standard icons

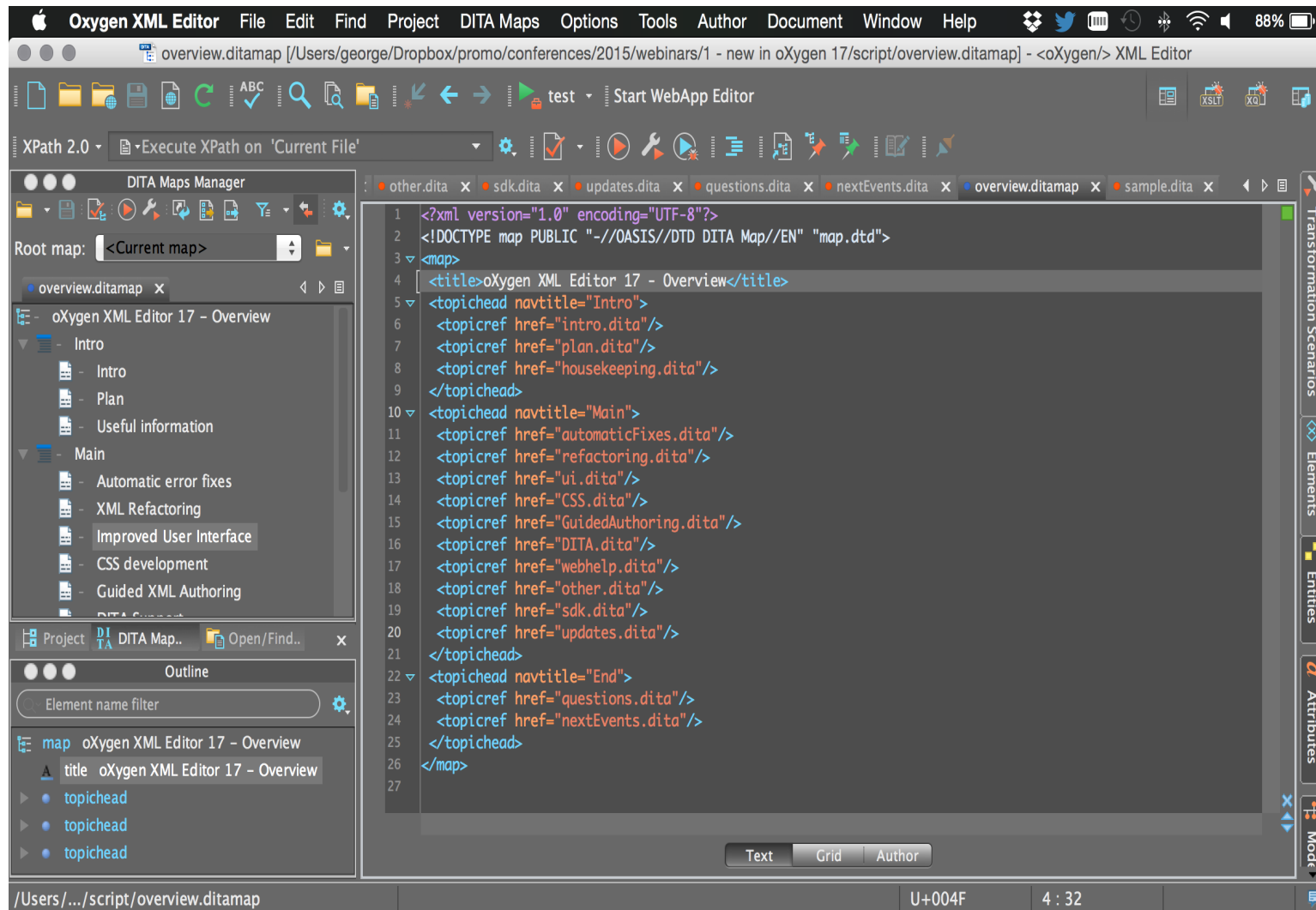


HiDPI icons





# Graphite color theme



# Configurable toolbars

- Down to action level
- Preview toolbars

The screenshot displays the 'Toolbar Structure' and 'Preview' panels of the oXygen XML Editor. The 'Toolbar Structure' panel on the left lists various toolbars and their actions, while the 'Preview' panel on the right shows a visual representation of the selected toolbar.

**Toolbar Structure**

- My Toolbar (Add actions here)
- Author (Available only for Author mode)
  - [Tags display mode]
  - [Profiling]
  - Refresh References
- Author Styles (Available only for Author mode)
- Bookmarks
- DITA (Author Custom Actions 1)

**Preview**

The preview panel shows a toolbar with the following icons: a document with a plus sign, bold (B), italic (I), underline (U), a link icon, an image icon, a paragraph icon, a copy icon, a refresh icon, a list icon, a list with numbers icon, and a list with letters icon.

# More about UI improvements

Webinar

May 20


[oXygen XML Editor 17 - UI Improvements](#)

See all events at:

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

# CSS development

- CSS Inspector
- LESS editor

A screenshot of the CSS Inspector tool. The window title is "CSS Inspector". The main content area displays two CSS rules. The first rule is from "-colors.css:118" and defines styles for elements with the class attribute containing "topic/draft-comment", including background-color, border-left-color, and border-right-color. The second rule is from "-topic-body.css:119" and defines display, padding-top, and padding-right for the same class. At the bottom, there are four tabs: "Element", ":before", "Computed", and "Path".

```

-colors.css:118
*[class~='topic/draft-comment'] {
  background-color:color(153 , 255 , 153);
  border-left-color:green;
  border-right-color:green;
}

-topic-body.css:119
*[class~='topic/draft-comment'] {
  display:block;
  padding-top:0.5em;
  padding-right:0.5em;
}

```

# Guided XML Authoring

- Inline hints
- Inline actions

# Inline hints

A **task** topic tells users how to accomplish a task. Try to limit a task topic to a single procedure.

Use an imperative verb form for the task title to help users distinguish between topics that tell *how* to complete the task and other topics that might only provide conceptual information about the task.

## Enter task title

The short description of a task should describe in a couple of sentences *why* the reader is performing the task.

## Enter short description

The context section allows you to provide short background or high-level information about the task or its larger workflow. You can also mention here any warnings or general pitfalls with regard to the task.

## About this task:

### Enter paragraph content

Use a numbered step procedure (`steps`) to describe the actions that the user must perform in a specific order. Alternatively, use a bulleted step list (`steps-unordered`) to describe actions that the user can perform in any order.

Each step describes an action that a user must follow to accomplish a task. Enter the instructions as a direct command in the required `cmd` element. A step can also optionally contain different information, sub-steps, step example, choices or a step result.

### 1. Enter step action

# Inline actions

**Title**

[Title Alternatives]

**Short Description** ✕

[Prolog]

[Pre-requisites]

**About this task:**

**p**

✕

[Step] [Step Section]

[Step]

1. [Note] or [Hazard Statement]

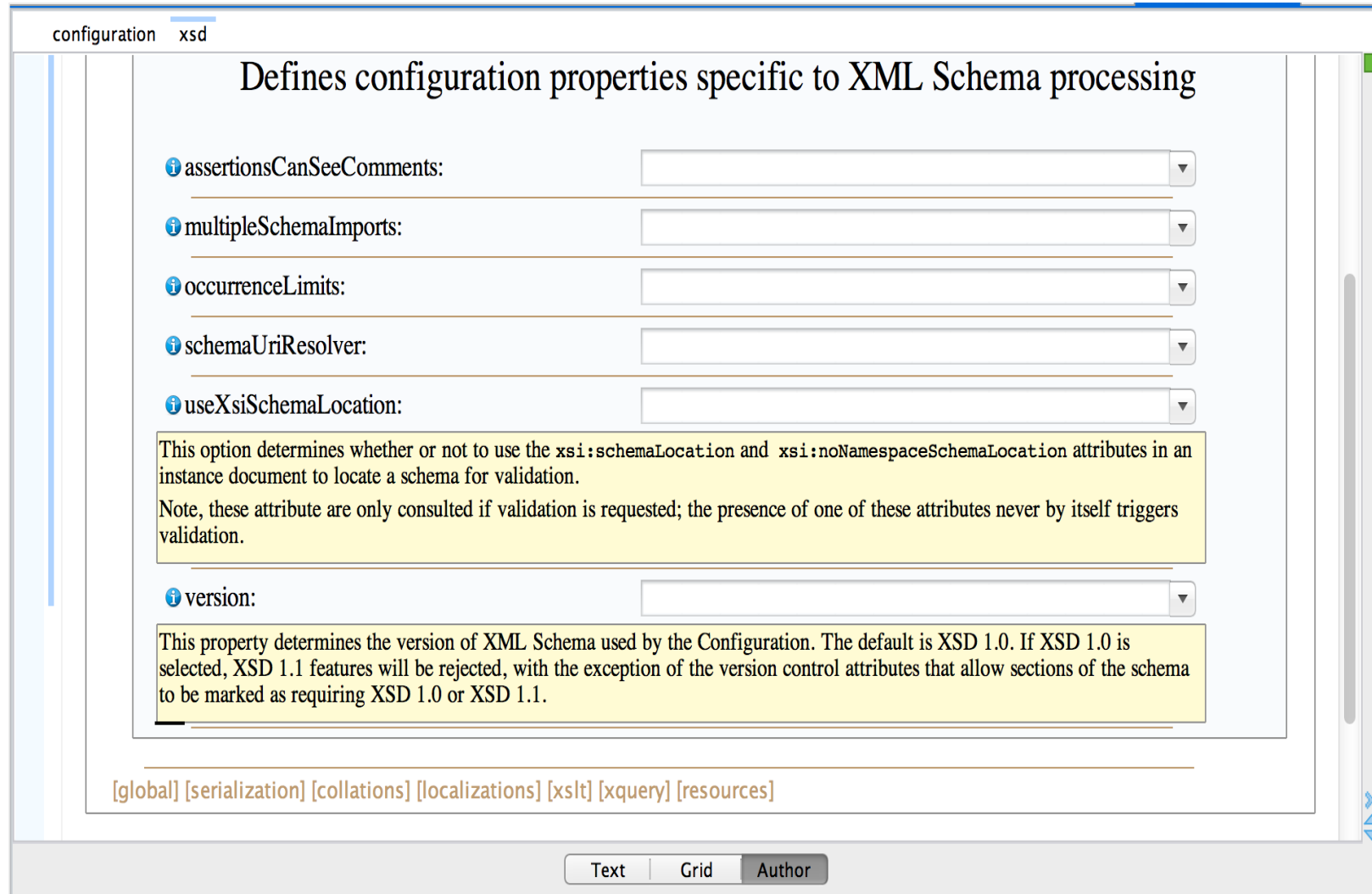
**Command**

[Choices] or [Choice Table] or [Information] or [Step Example] or [Substeps] or [Tutorial Information] [Step Result] ✕

[Step]

[Step Section] [Step]

# Hints and actions

The screenshot shows the "configuration" window for "xsd" in Oxygen XML Editor. The window title is "configuration xsd". The main content area is titled "Defines configuration properties specific to XML Schema processing". It contains several configuration options, each with an information icon (i) and a dropdown menu:

- assertionsCanSeeComments:** A dropdown menu.
- multipleSchemaImports:** A dropdown menu.
- occurrenceLimits:** A dropdown menu.
- schemaUriResolver:** A dropdown menu.
- useXsiSchemaLocation:** A dropdown menu. Below it is a yellow-highlighted text box containing the following text:

This option determines whether or not to use the `xsi:schemaLocation` and `xsi:noNamespaceSchemaLocation` attributes in an instance document to locate a schema for validation.  
Note, these attribute are only consulted if validation is requested; the presence of one of these attributes never by itself triggers validation.
- version:** A dropdown menu. Below it is a yellow-highlighted text box containing the following text:

This property determines the version of XML Schema used by the Configuration. The default is XSD 1.0. If XSD 1.0 is selected, XSD 1.1 features will be rejected, with the exception of the version control attributes that allow sections of the schema to be marked as requiring XSD 1.0 or XSD 1.1.

At the bottom of the configuration area, there are several links: [\[global\]](#), [\[serialization\]](#), [\[collations\]](#), [\[localizations\]](#), [\[xslt\]](#), [\[xquery\]](#), and [\[resources\]](#). At the very bottom of the window, there are three tabs: "Text", "Grid", and "Author", with "Author" being the active tab.



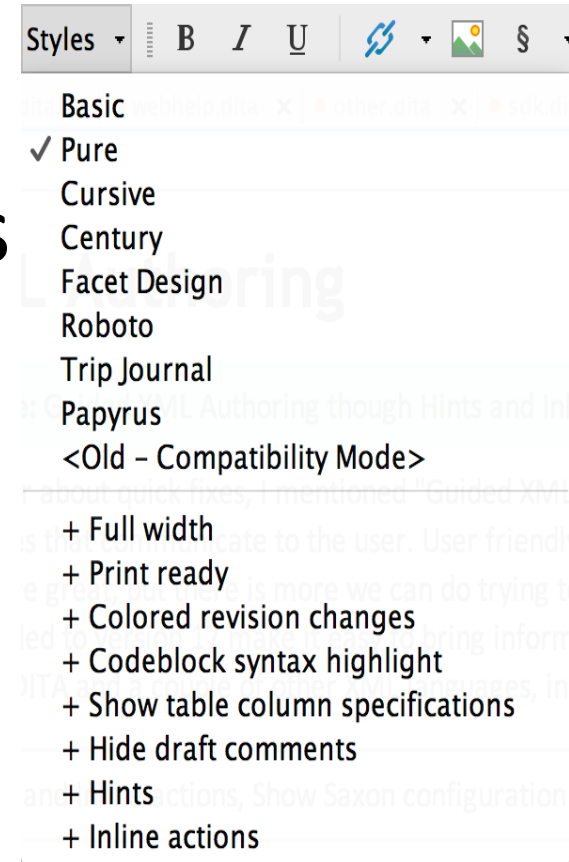
# Guided authoring implementation

Made possible by version 17 new additions:

- HTML content form control
- Define actions in CSS
- before(n) and after(n) pseudo-elements

# CSS layers

- One main style
  - Enable/disable alternate styles
- $9 * 2^8 = 2304$  possibilities



# DITA Support

- Responsive view
- DITA-OT 2.0
- DITA-CSS integration
- Better DITA validation
- Updated DITA Metrics report

# More about DITA

Webinar

June 10

[oXygen XML Editor - DITA Support](#)

See all events at:

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

# WebHelp output

- Optimized page loading time
- Embeddable
- Context sensitive help
- SEO
- RTL support
- Japanese search

# Other useful additions

- XQuery/XPath formatting
- CSS absolute positioning of blocks
- Detect DITA-OT plugins parameters
- Ignore whitespace in Find/Replace in files
- Dynamic content conversion

# SDK

- Many extension points
- JavaScript operation for defining custom actions
- WebApp SDK
  - Adaptive (desktop-friendly & mobile-friendly)
  - Framework actions available
    - Toolbar
    - Contextual menu
  - API for providing additional actions to the web editor

# More about the SDK

## Webinar

June 17

[oXygen XML Editor - XML Authoring on the Web](#)

See all events at:

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



# Updated components

- Processors
  - Saxon, XML Calabash
- New frameworks
  - JATS, XLIFF, ISO StratML
- XML databases
  - Exist, MarkLogic
- Eclipse 4.5
- SVN Client

# Next events

- Webinar May 20 [UI Improvements](#)
- Webinar May 27 [XML Quick Fixes](#)
- Webinar June 3 [Refactoring XML Documents](#)
- **Meetup** June 5 [oXygen Users Meetup London](#)
- **Conference** June 6-7 [XML London 2015](#)
- Webinar June 10 [DITA Support](#)
- Webinar June 17 [XML Authoring on the Web](#)

# Thank you!

## Questions?

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<http://www.oxygenxml.com>