

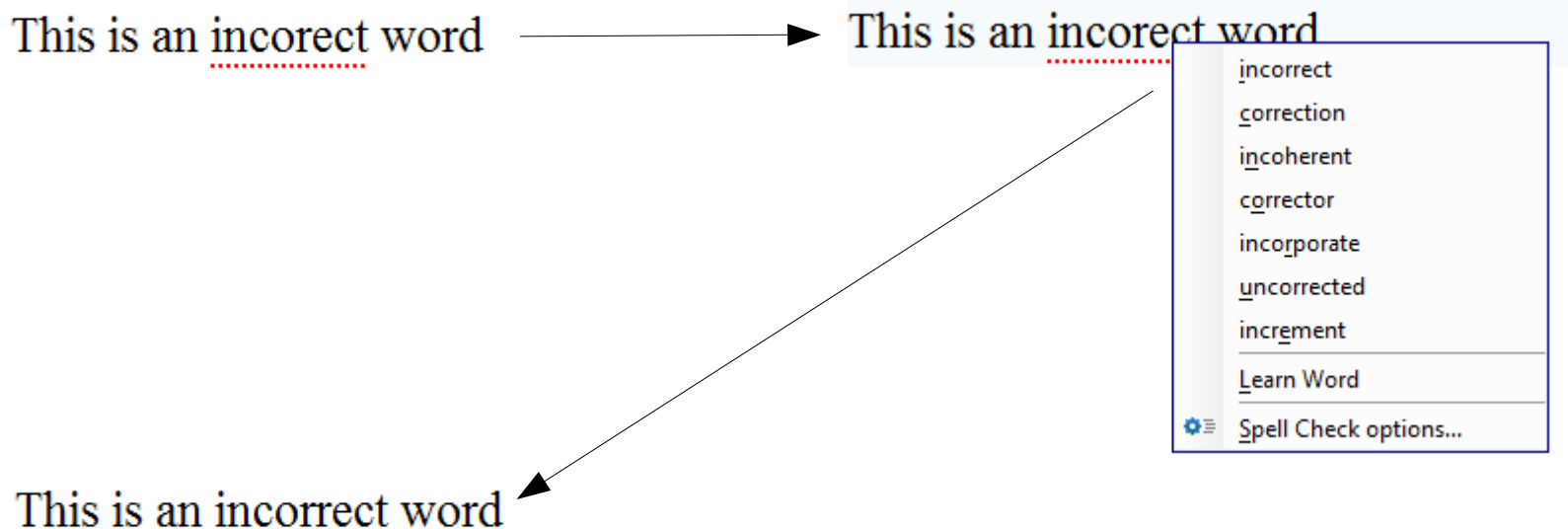
Overview of oXygen XML Editor 17

Alex Jitianu



Automatic error fixes

- What are Quick Fixes?



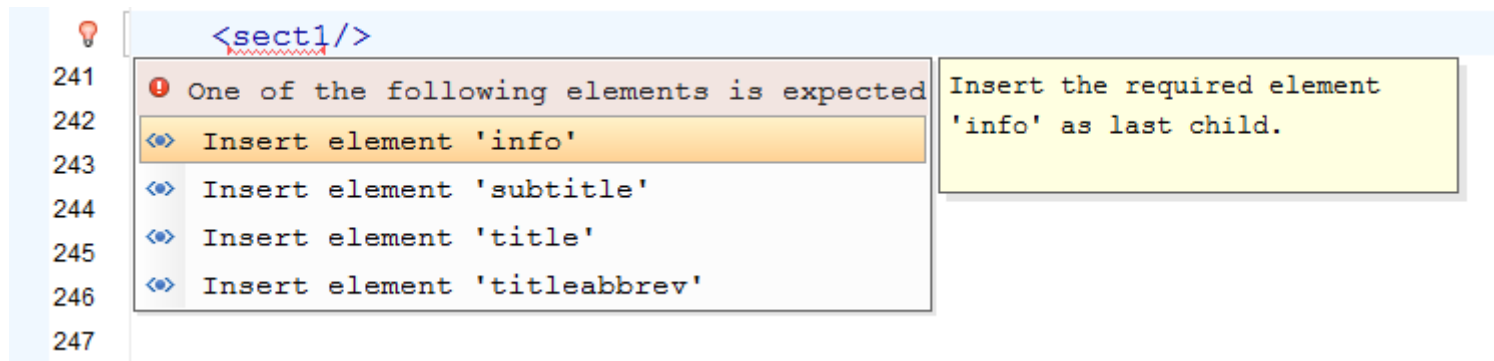
Quick Fixes in oXygen

- 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 from 241 to 247 indicates the current position in the document. The main area shows the XML tag `<sect1/>` with a red squiggly line underneath. A tooltip is displayed over the tag, containing a red error icon and the text "One of the following elements is expected". Below this text is a list of four options, each with a blue double-headed arrow icon: "Insert element 'info'", "Insert element 'subtitle'", "Insert element 'title'", and "Insert element 'titleabbrev'". The first option, "Insert element 'info'", is highlighted with an orange background. To the right of the tooltip, a yellow box contains the instruction: "Insert the required element 'info' 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](http://www.oxygenxml.com) 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](http://www.oxygenxml.com) 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)

Best wishes,

jk

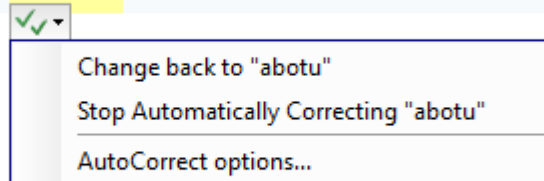
--

Joel Kalvesmaki
Editor in Byzantine Studies
Dumbarton Oaks

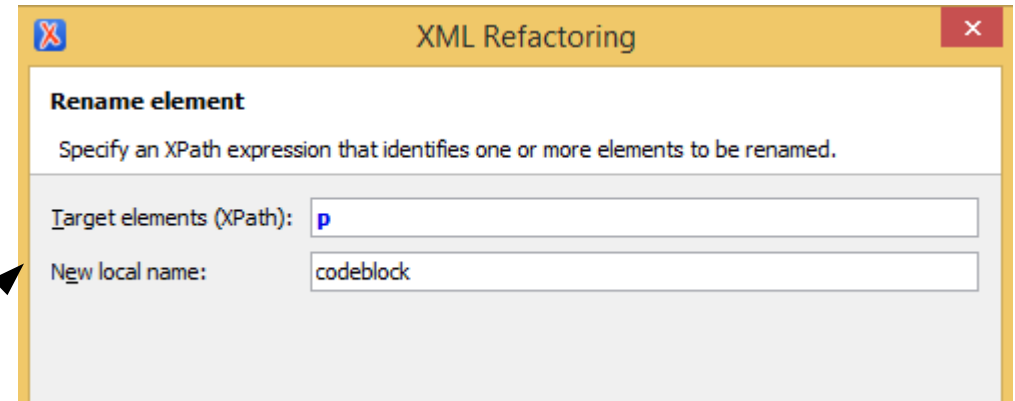
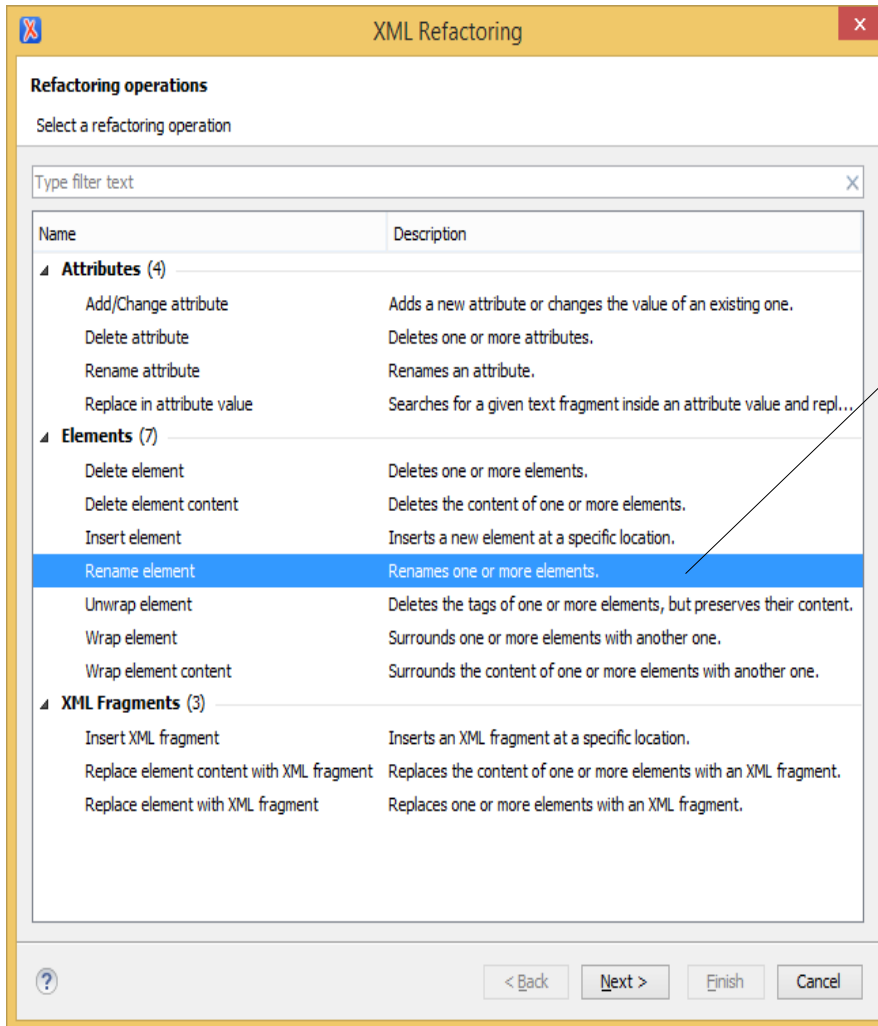
AutoCorrect

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

This is about autocorrect.



XML Document Refactoring



Improved user interface

- Retina/HiDPI support
- Dark color theme – Graphite
- Redesigned and configurable toolbars

Retina/HiDPI support

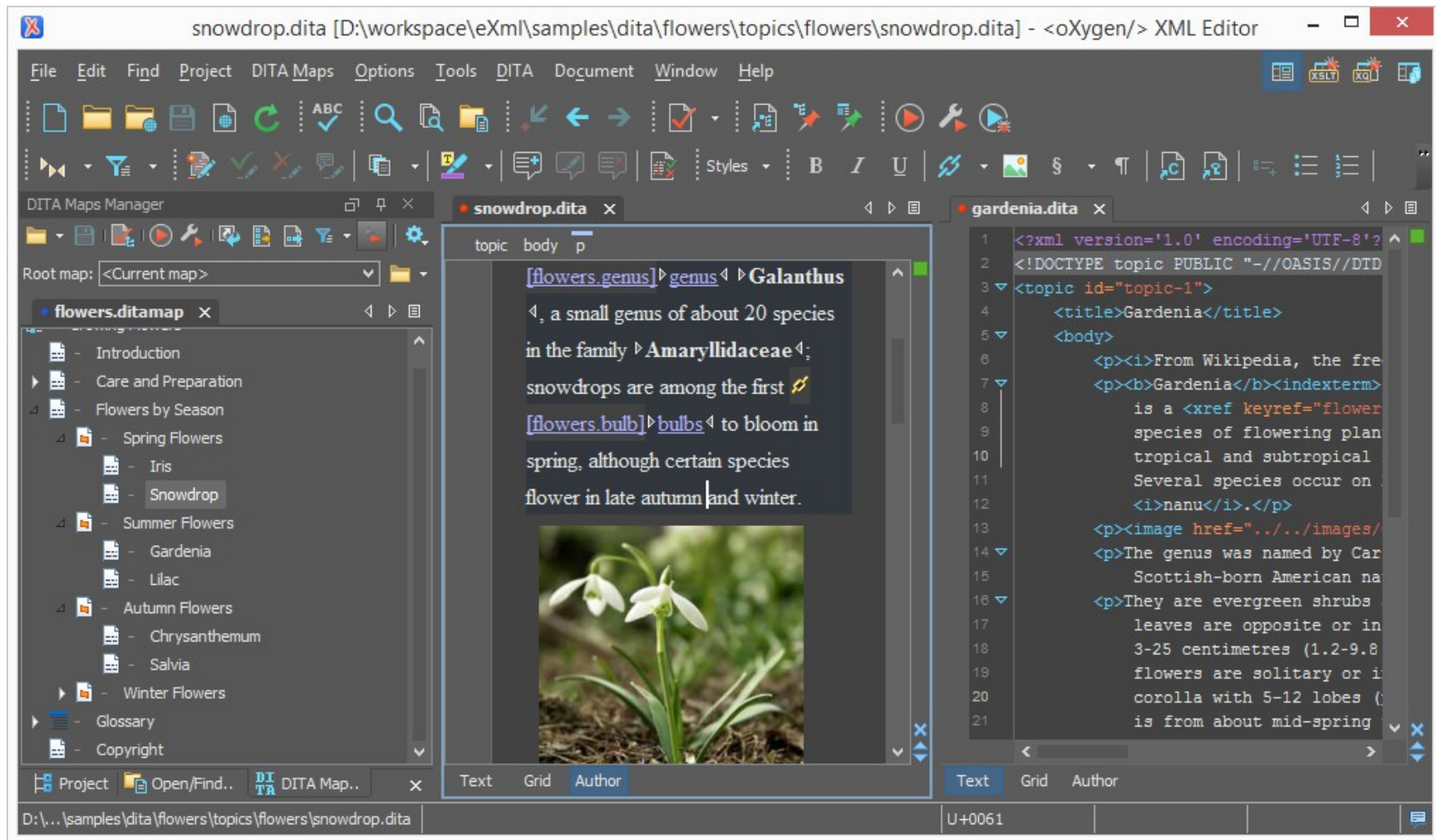
Standard icons



HiDPI icons



Graphite color theme



Color Themes

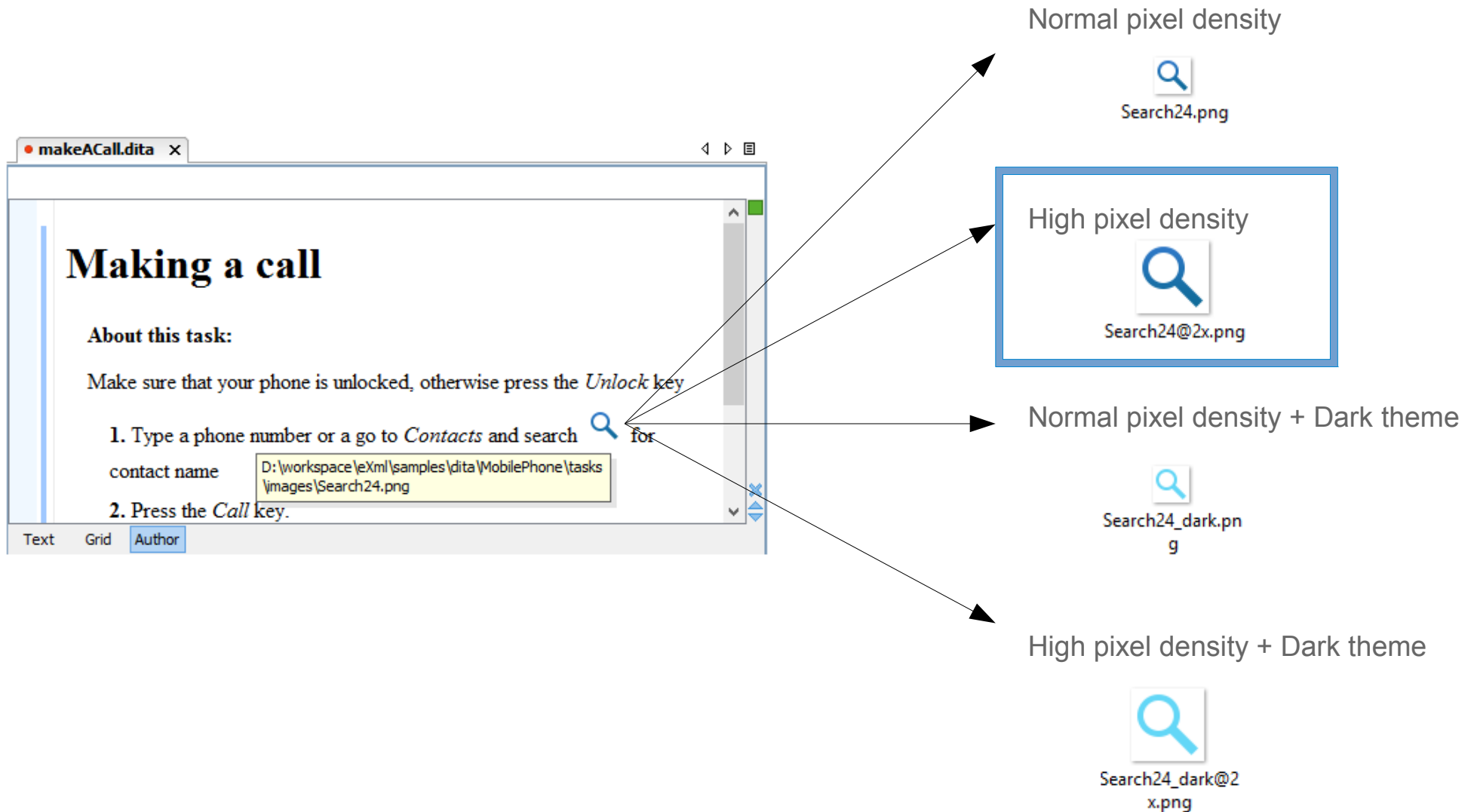
Windows high contrast CSS support:

`@media oxygen-high-contrast-black`

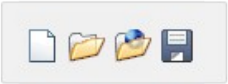
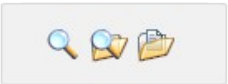






`@media oxygen-high-contrast-white`

```
@media oxygen-high-contrast-black {  
  *[class~="topic/draft-comment"] {  
    background-color: green;  
  }  
}
```

Author Image Loading

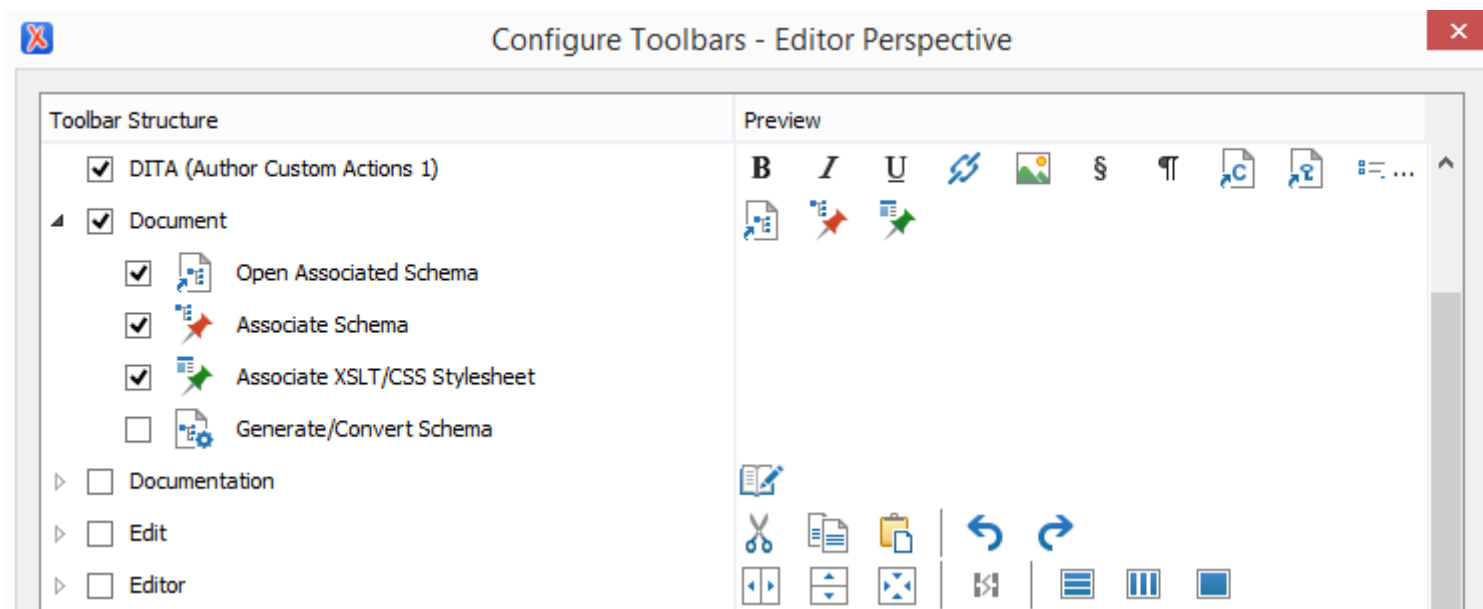


Toolbars Improvements

	File	Search	Spelling	Document
version 16.1				
version 17				

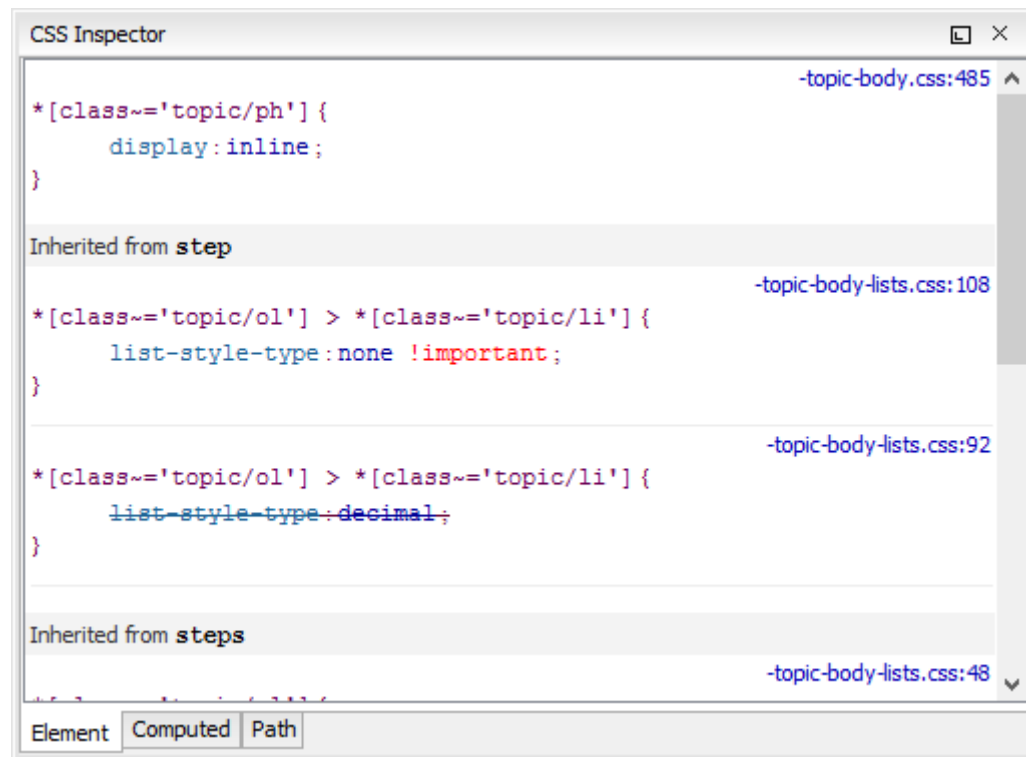
Configurable toolbars

- Down to action level
- Preview toolbars



CSS development

CSS Inspector



CSS development

LESS support

CSS

```
link1 {  
  color: #5B83AD;  
}  
/* ..... */  
link2 {  
  color: #5B83AD;  
}
```

LESS

```
@special-blue: #5B83AD;  
  
link1 {  
  color: @special-blue;  
}  
/* ..... */  
link2 {  
  color: @special-blue;  
}
```

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

configuration xsd

Defines configuration properties specific to XML Schema processing

i assertionsCanSeeComments:

i multipleSchemaImports:

i occurrenceLimits:

i schemaUriResolver:

i useXsiSchemaLocation:

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.

i version:

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.

[\[global\]](#) [\[serialization\]](#) [\[collations\]](#) [\[localizations\]](#) [\[xslt\]](#) [\[xquery\]](#) [\[resources\]](#)

Text | Grid | Author

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

Guided authoring implementation

Made possible by version 17 new additions:

- HTML content form control

```
p#intro_id:before {  
  content:  
    oxy_htmlContent(  
      content, "<div style='font-weight:bold;'>My content</div>",  
      width, 400px);  
}
```

- Define actions in CSS
- before(n) and after(n) pseudo-elements

Guided authoring implementation

Made possible by version 17 new additions:

- HTML content form control
- Define actions in CSS

```
comment:after{  
  content: oxy_button(  
    action, oxy_action(  
      name, 'Insert',  
      description, 'Insert an element after the current one',  
      icon, url('insert.png'),  
      operation, 'ro.sync.ecss.extensions.common.operations.InsertFragmentOperation',  
      arg-fragment, '<element></element>',  
      arg-insertLocation, '.',  
      arg-insertPosition, 'After'));}
```

- before(n) and after(n) pseudo-elements

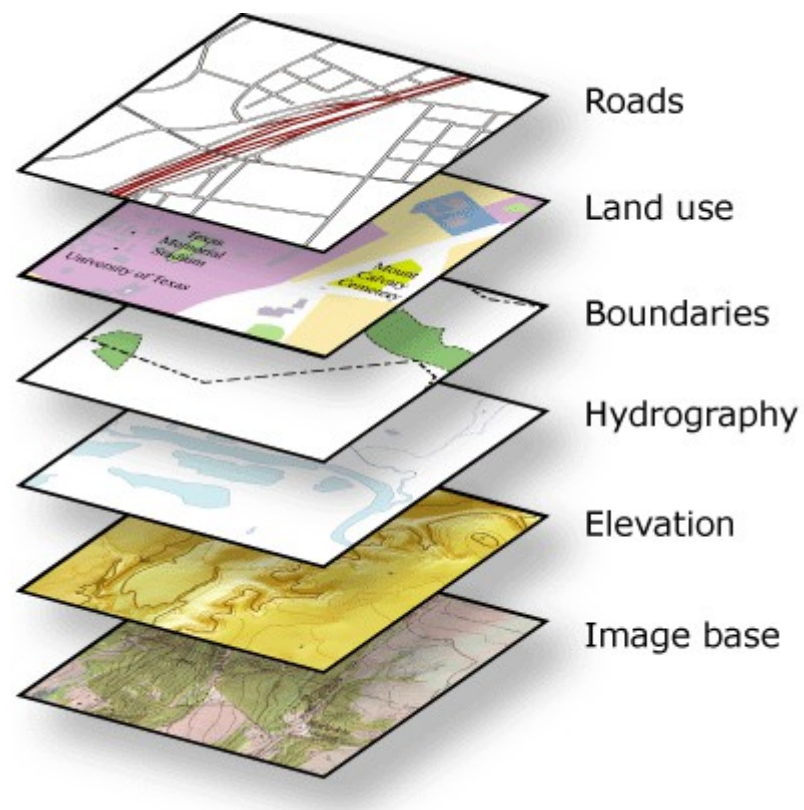
Guided authoring implementation

Made possible by version 17 new additions:

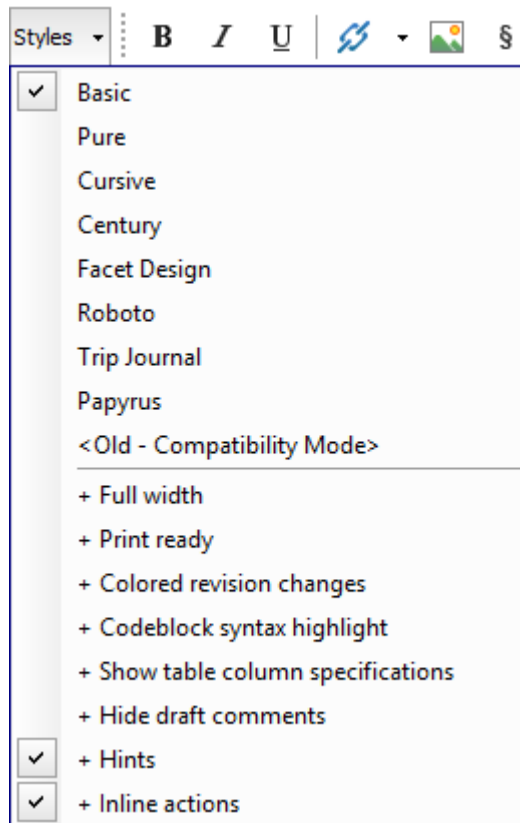
- HTML content form control
- Define actions in CSS
- before(n) and after(n) pseudo-elements

```
title:before(1){  
  content: "Hints";  
}  
title:before(2){  
  content: oxy_button(actionID, 'paragraph', showIcon, true);  
}
```

Alternate CSS/ CSS Layers



Layered Styling



One main style

Multiple alternate/layer styles

DITA Support

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

@media properties

- min-width
- max-width

```
@media oxygen AND (min-width:25cm) {
```

```
  :root{  
    width: 21.59cm;  
    min-height:10cm;  
  }
```

```
}
```

@media properties

- OS
- platform

```
@media oxygen AND (os:"win") AND (platform:"standalone") {  
  p {  
    color:blue;  
  }  
}
```

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

<http://oxygenxml.com/whatisnew17.0.html#17.0API>

- 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

Updated components

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

Thank you!

Questions?

Alex Jitianu

alex_jitianu@oxygenxml.com

<http://www.oxygenxml.com>