

<Schematron>

Business Rules Checks and Corrections

- Updates -



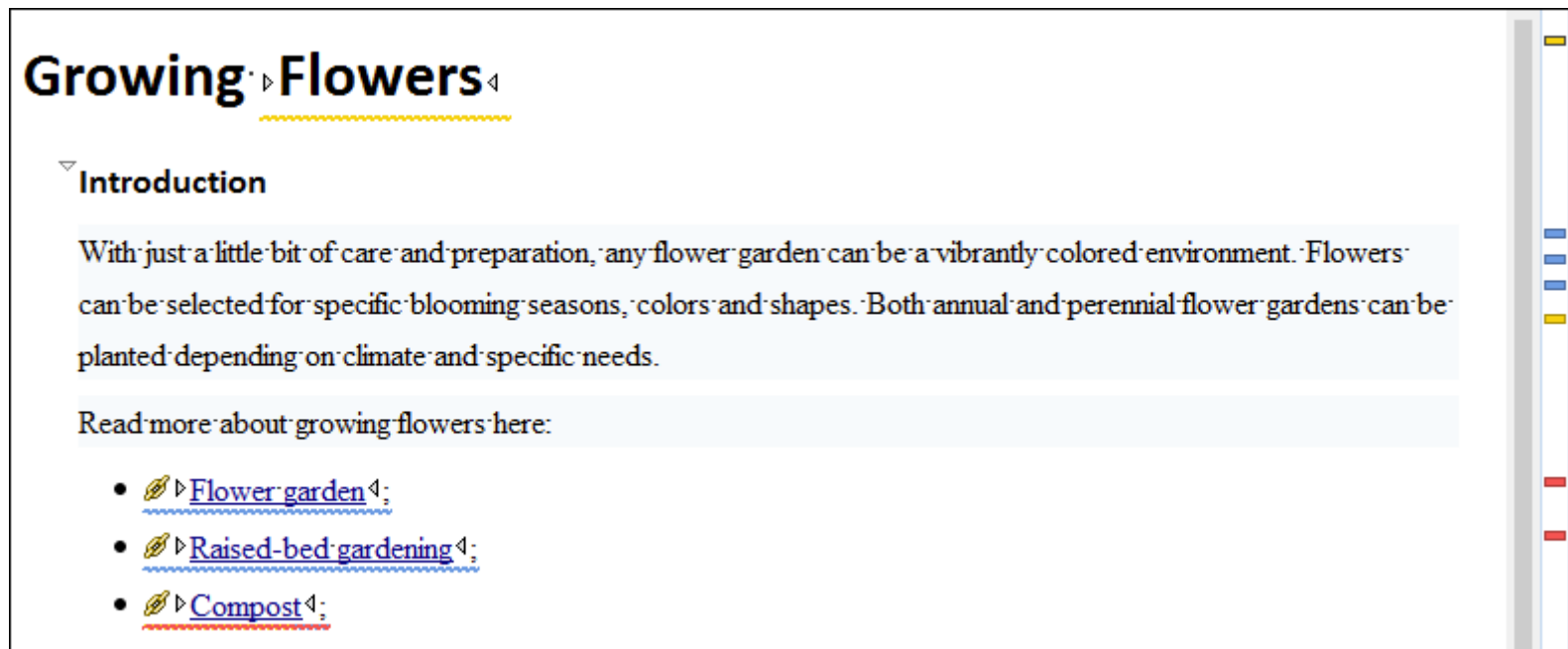
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Overview

- Markers for information messages
- Quick fixes can be provided also for information messages
- SQF string replace operation allows ignore case
- Performance improvements
- Quick fix support in <oxygen/> XML Web Author

Markers for Info Messages

- A problem severity can be: *error*, *warn* or *info*
- The Schematron messages with the `@role="info"` are marked in the editor with a blue line

A screenshot of a document editor interface. The title "Growing Flowers" is displayed in a large, bold, black font. A blue horizontal line is drawn under the title. Below the title, there is a section titled "Introduction" with a small downward-pointing triangle to its left. The text in the "Introduction" section is highlighted in light blue. It reads: "With just a little bit of care and preparation, any flower garden can be a vibrantly colored environment. Flowers can be selected for specific blooming seasons, colors and shapes. Both annual and perennial flower gardens can be planted depending on climate and specific needs." Below this text, there is another line of text: "Read more about growing flowers here:". Underneath, there are three bullet points, each with a small icon of a pencil and a blue line under the text: "Flower garden", "Raised-bed gardening", and "Compost". To the right of the text area, there is a vertical scrollbar with a yellow track and a blue slider.

Quick Fixes for Info Messages

- Quick fixes can be provided for the Schematron info messages
- The user can have now also suggestions or guidelines presented in the editor



SQL String Replace

- The `<sql:stringReplace/>` operation regular expression allows native Java regex syntax

<https://docs.oracle.com/javase/7/docs/api/java/util/regex/Pattern.html>

- Saxon flag “;j” is set for the regular expression

<http://www.saxonica.com/html/documentation/functions/fn/matches.html>

- This allows, for example:
 - The use of `\b` in a regular expression to match word boundaries
 - Case-insensitive matching can be enabled via the embedded flag expression `(?i)`

Performance Improvements

- When executing late fixes we use a compiled version of the stylesheet
- The execution of a quick fix has been improved, for example:
 - If hundreds of rules are defined in the Schematron schema but on your XML file just a few are applied
 - The quick fix execution performance has been improved from 10-15 seconds to less than one second

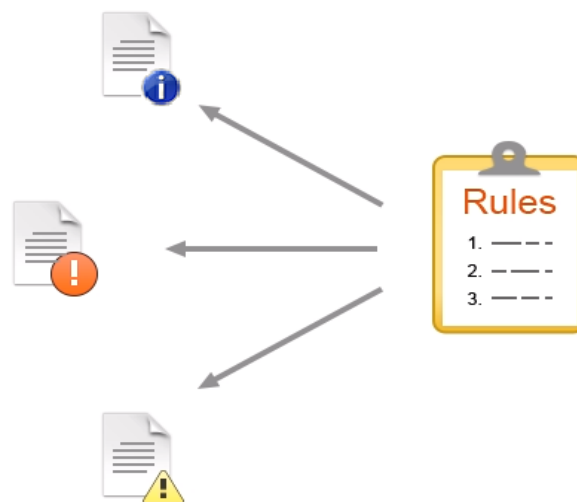
Quick Fixes in Web Author

- Added support to execute quick fixes from <oxygen/> XML Web Author
- Can execute a fix from the validation view or from the in-place tooltip window



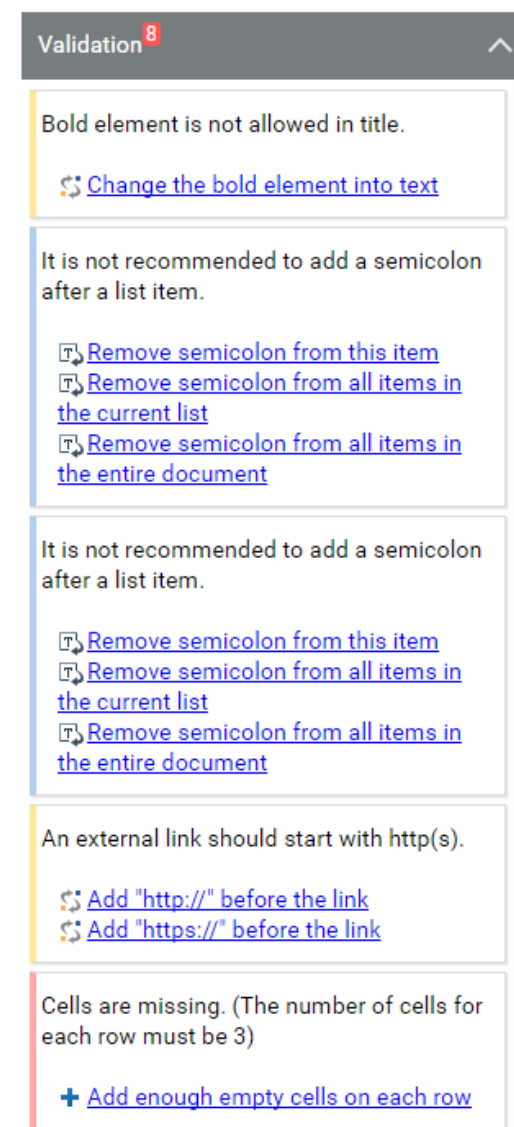
Schematron Quick Fixes On The Web

- The Schematron business rules and quick fixes can be used also in Web Author
- Same quick fixes define in the <oxygen/> desktop version can be used in <oxygen/> Web Author
- Quick fixes available on any device: desktop, tablet and mobile device



Fix Proposals in Validation View

- Easily check all validation problems and fix proposals from the side view
- After fixing a validation problem the view is updated with the remaining problems and fixes



Validation **8**

Bold element is not allowed in title.

- [Change the bold element into text](#)

It is not recommended to add a semicolon after a list item.

- [Remove semicolon from this item](#)
- [Remove semicolon from all items in the current list](#)
- [Remove semicolon from all items in the entire document](#)

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An external link should start with http(s).

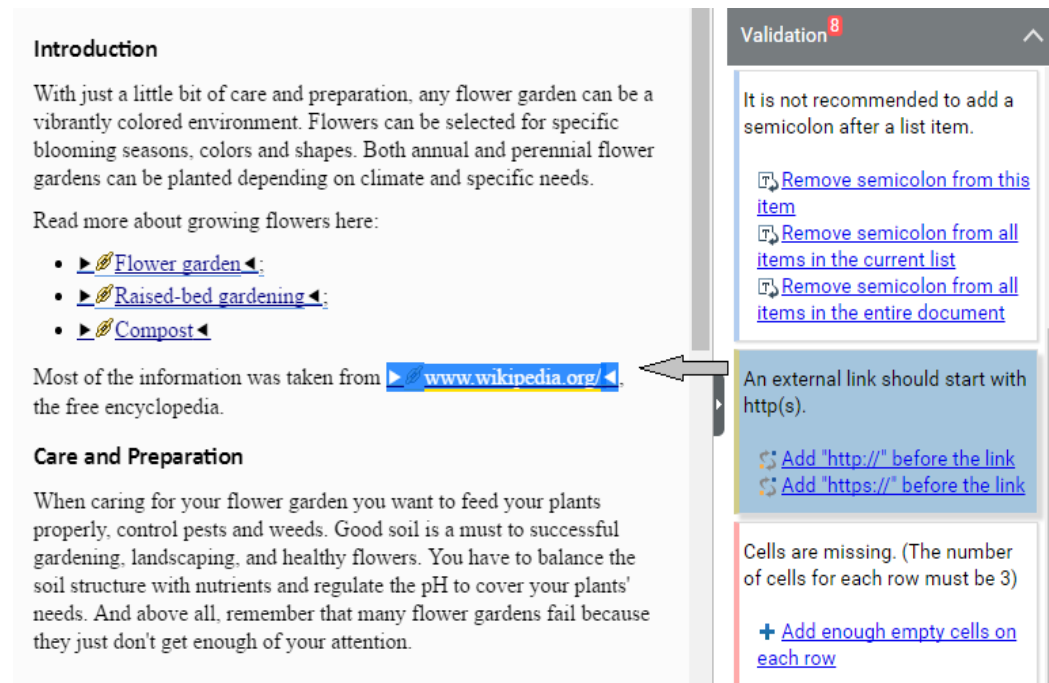
- [Add "http://" before the link](#)
- [Add "https://" before the link](#)

Cells are missing. (The number of cells for each row must be 3)

- [Add enough empty cells on each row](#)

Validation View Selection

- The problem from the caret position is automatically selected in the validation view
- Click on an item from the validation view to see the location of the problem in the editor



Introduction

With just a little bit of care and preparation, any flower garden can be a vibrantly colored environment. Flowers can be selected for specific blooming seasons, colors and shapes. Both annual and perennial flower gardens can be planted depending on climate and specific needs.

Read more about growing flowers here:

- [▶ Flower garden](#)◀;
- [▶ Raised-bed gardening](#)◀;
- [▶ Compost](#)◀

Most of the information was taken from [▶ www.wikipedia.org/](http://www.wikipedia.org/)◀

Care and Preparation

When caring for your flower garden you want to feed your plants properly, control pests and weeds. Good soil is a must to successful gardening, landscaping, and healthy flowers. You have to balance the soil structure with nutrients and regulate the pH to cover your plants' needs. And above all, remember that many flower gardens fail because they just don't get enough of your attention.

Validation 8

It is not recommended to add a semicolon after a list item.

- ▶ [Remove semicolon from this item](#)
- ▶ [Remove semicolon from all items in the current list](#)
- ▶ [Remove semicolon from all items in the entire document](#)

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- ▶ [Add "http://" before the link](#)
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Cells are missing. (The number of cells for each row must be 3)

- ▶ [Add enough empty cells on each row](#)

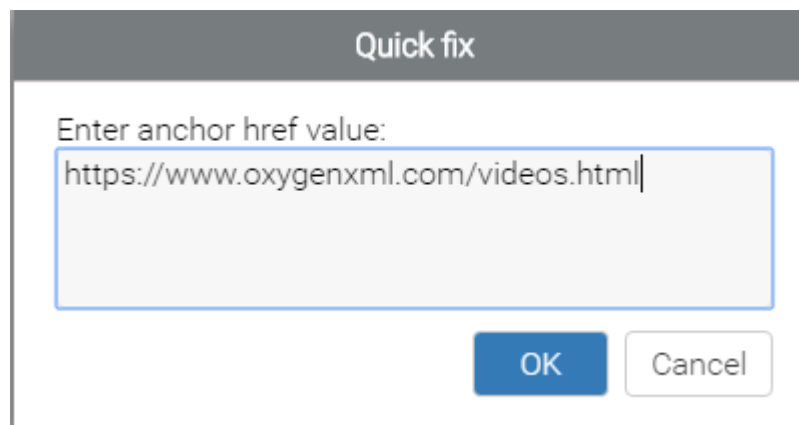
Fix Proposals in Tooltip Window

- Business rules fix proposals are presented in a tooltip window
- The correction will be performed in document just by clicking on the link



User Entries

- <oxygen/> XML Web author support also SQF user entries
- A dialog is displayed to insert the required value, for each user entry defined in the fix

A screenshot of a "Quick fix" dialog box. The title bar is dark gray with the text "Quick fix" in white. The main area is white and contains the text "Enter anchor href value:" followed by a text input field. The input field contains the URL "https://www.oxygenxml.com/videos.html". Below the input field are two buttons: a blue "OK" button and a white "Cancel" button with a gray border.

Thank you!

Questions?

`<oxygen/>` XML Editor
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