

What's New in Oxygen 28

- Development -

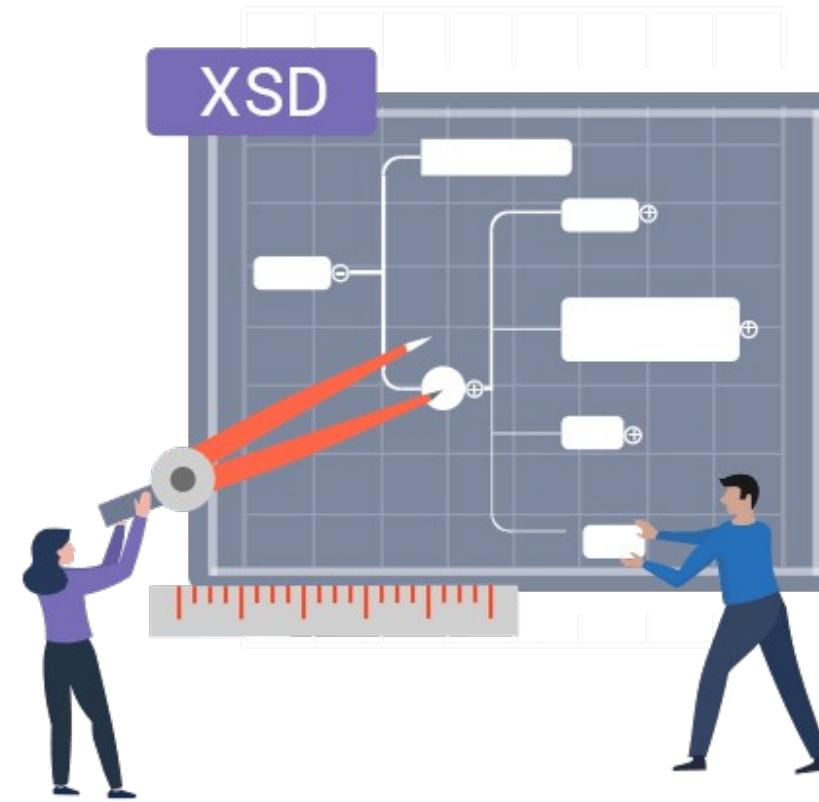
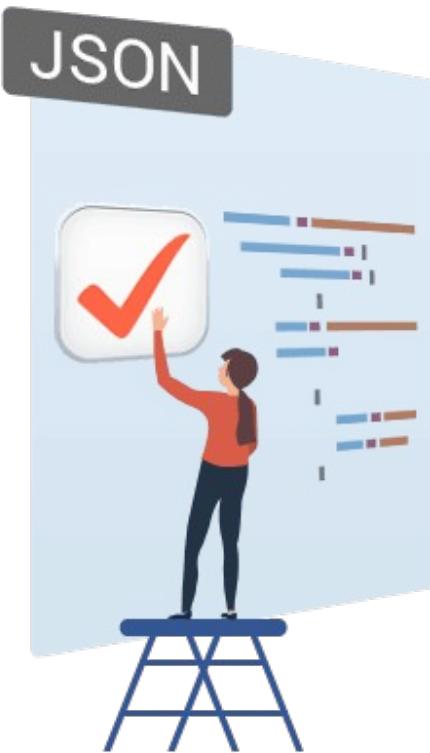
Octavian Nadolu, Syncro Soft
octavian_nadolu@oxygenxml.com
@OctavianNadolu

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schema
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XQuery
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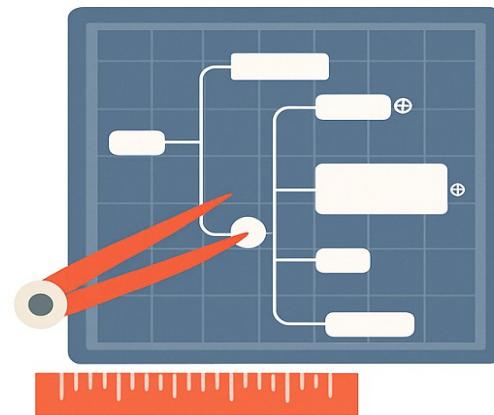


Development

- XSLT & XQuery Editing, Transform and Debug
- Design XSD and JSON Schema
- XML and JSON Validation
- All XML and JSON Standards Support
- File Comparison

New Development Features

- AI-powered Autocompletion and Enhanced Developer Tools
- Improved XSLT and XQuery Functionality
- Support for XProc 3.0 and 3.1
- Enhanced File and Directory Comparison Capabilities
- And many more exciting features!



AI-powered Autocompletion

- Autocompletion using AI for XSLT, XSD, JSON Schema, Schematron, and more
- Context-Aware Suggestions
- User Interaction
- Adaptive and Precise
- Focused Scope



The screenshot shows a code editor window with XSLT code. The cursor is positioned at line 31, character 10, inside the opening tag of an `<xsl:template>` element. A lightbulb icon with a yellow outline and a question mark inside is displayed, indicating an available suggestion. The code block is as follows:

```
30      </html>
31  </xsl:template>
31  <xsl:template match="entry/grade">
32      <tr>
32          <td>Grade</td>
32          <td>
32              <xsl:value-of select="date"/>
32          </td>
32          <td>
32              <xsl:value-of select="value"/>
32          </td>
32      </tr>
32  </xsl:template> ↑TAB to confirm, SHIFT + TAB for Options
33
34 <xsl:template match="entry/absence">
```

AI Autocompletion Options

- Enable/Disable support
- Set the model
- Enable/Disable specific for editor types

Plugins / Oxygen AI Positron / AI Autocompletion

Enable AI Autocompletion in Text page

Model: GPT-4.1 (default) [Ai Conn]

Include associated instance structure in prompt

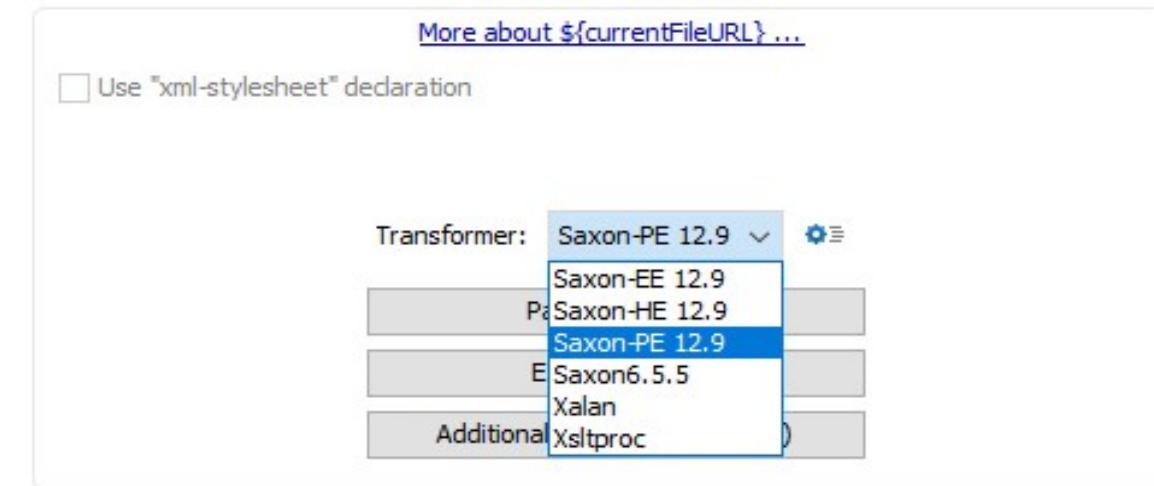
Editor Types

Select the editor types for which AI Autocompletion should be enabled.

Editor Type	Enabled
ANT Editor	<input checked="" type="checkbox"/>
Batch Editor	<input checked="" type="checkbox"/>
C Editor	<input checked="" type="checkbox"/>
C++ Editor	<input checked="" type="checkbox"/>
CSS Editor	<input checked="" type="checkbox"/>
Dockerfile Editor	<input checked="" type="checkbox"/>
DTD Editor	<input checked="" type="checkbox"/>
EXF Editor	<input checked="" type="checkbox"/>
HTML Editor	<input checked="" type="checkbox"/>
Java Editor	<input checked="" type="checkbox"/>
JavaScript Editor	<input checked="" type="checkbox"/>
JSON Schema Editor	<input checked="" type="checkbox"/>
LESS Editor	<input checked="" type="checkbox"/>
NVDL Editor	<input checked="" type="checkbox"/>

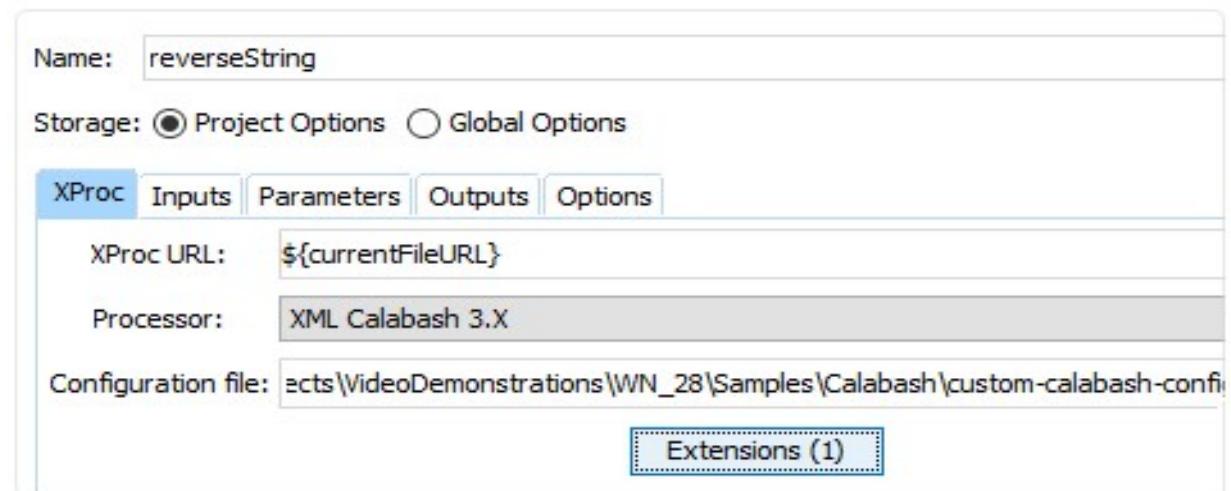
XSLT / XQuery

- XSLT and XQuery Transformation and Debugging with Saxon 12.9
- New built-in Oxygen XPath Extension Functions to Convert Between JSON and XML
- Improved Editing for XSLT Text Value Templates in CDATA Sections
- Rename XSLT Parameters in Call-Template Invocations



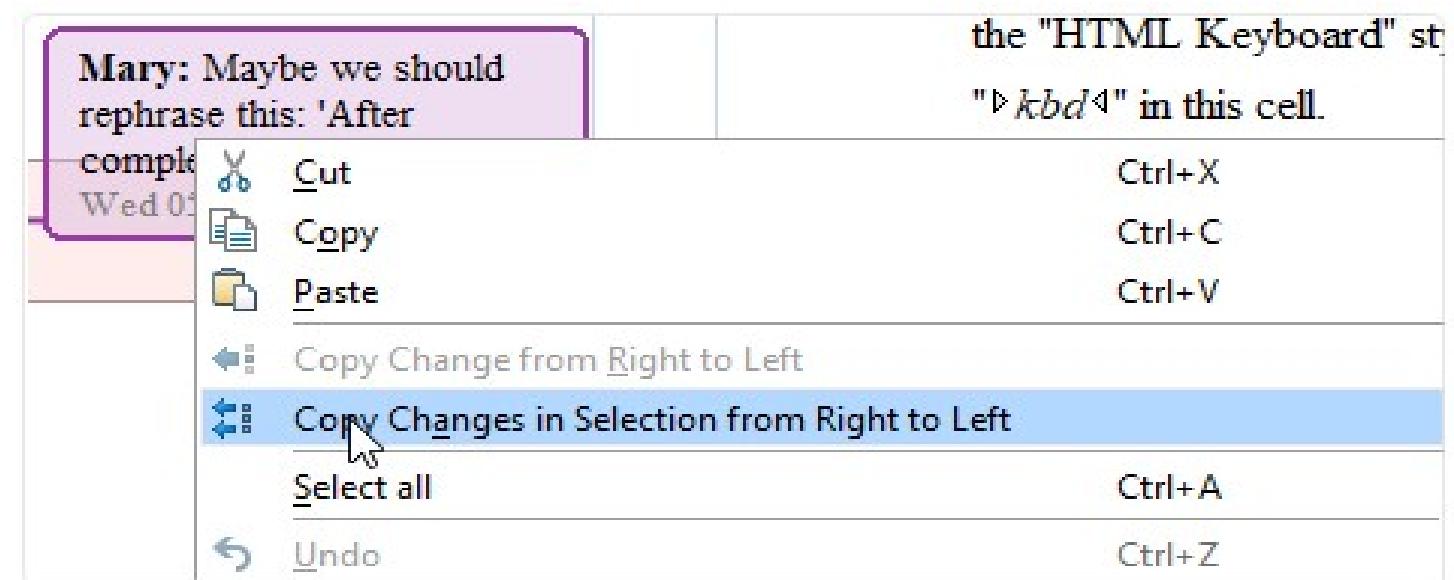
XProc 3.0/3.1 Support

- Oxygen now integrates the XML Calabash 3.X engine
- XProc Configuration
- Extension Libraries



File/Directory Comparison

- Focus on Relevant Folders when Comparing Directory Structures
- HTML Comparison Reports Show How Comparison Was Done
- Improved Selection Precision When Copying Differences
- Display Comment Callouts



More Exciting Features

- Run AI tests using XSpec
- Improved XSpec content completion
- Manage validation scenarios more easily
- Option to apply Schematron Quick Fixes in bulk only for default fixes
- ... and more

Future Plans

- Expand AI capabilities for development workflows
- Updated to newer standards, including the latest Schematron version
- Enhance support for new XProc 3 features and additions
- ...waiting for feedback



THANK YOU!

Any questions?

Oxygen Team

support@oxygenxml.com