

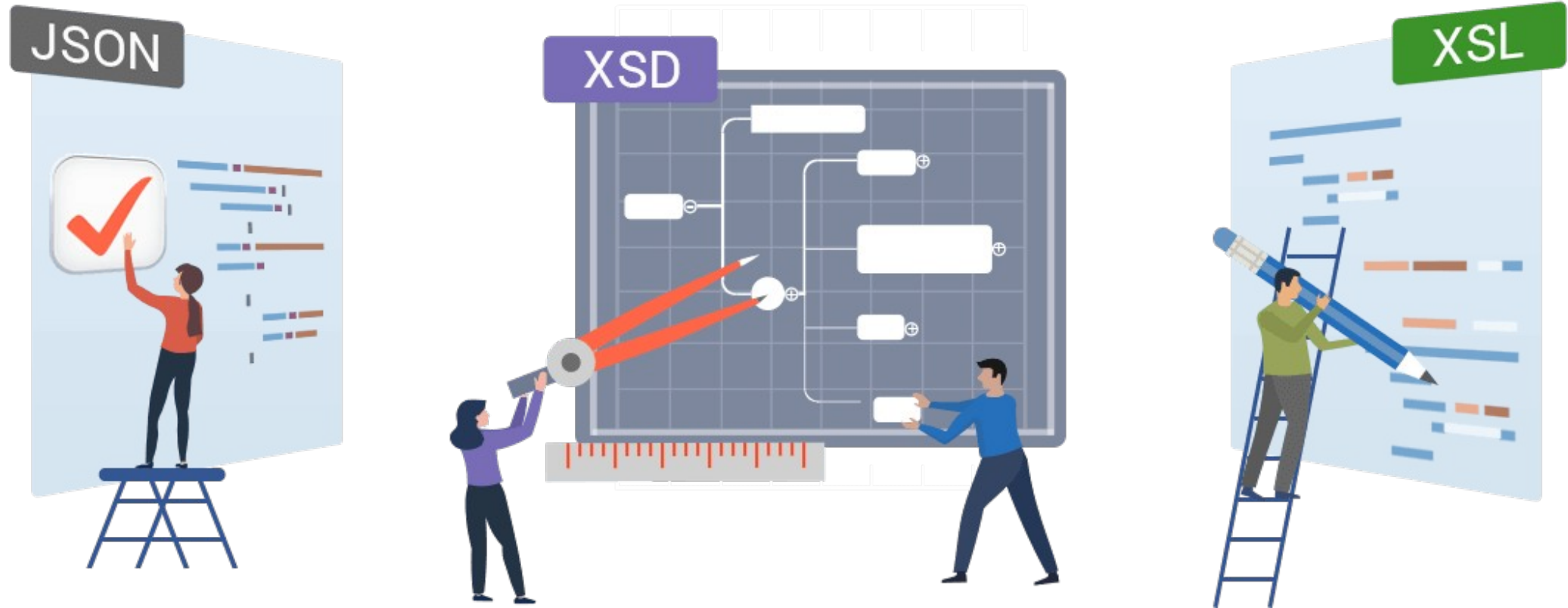
What's New in Oxygen 28 - Development -

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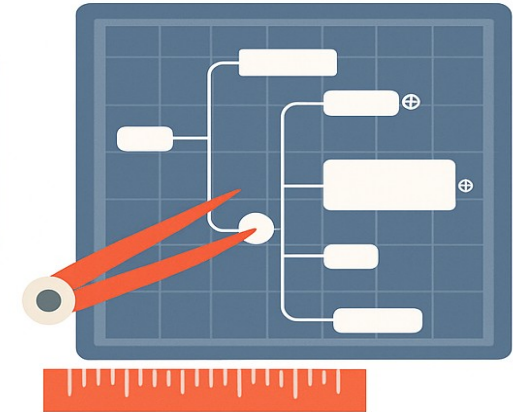


Development

- 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

```
30         </html>
31     </xsl:template>
32     ⚡ <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

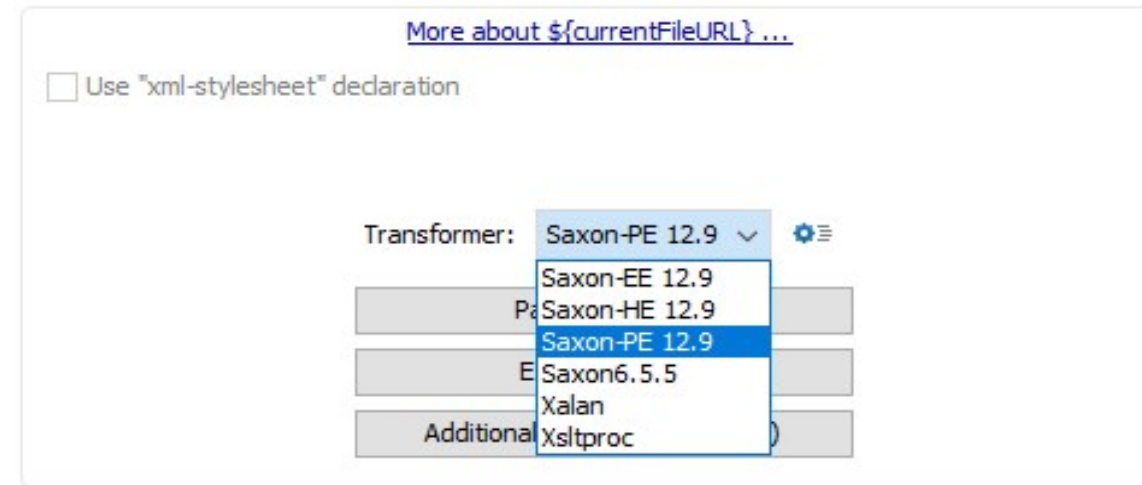
Editor Types

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

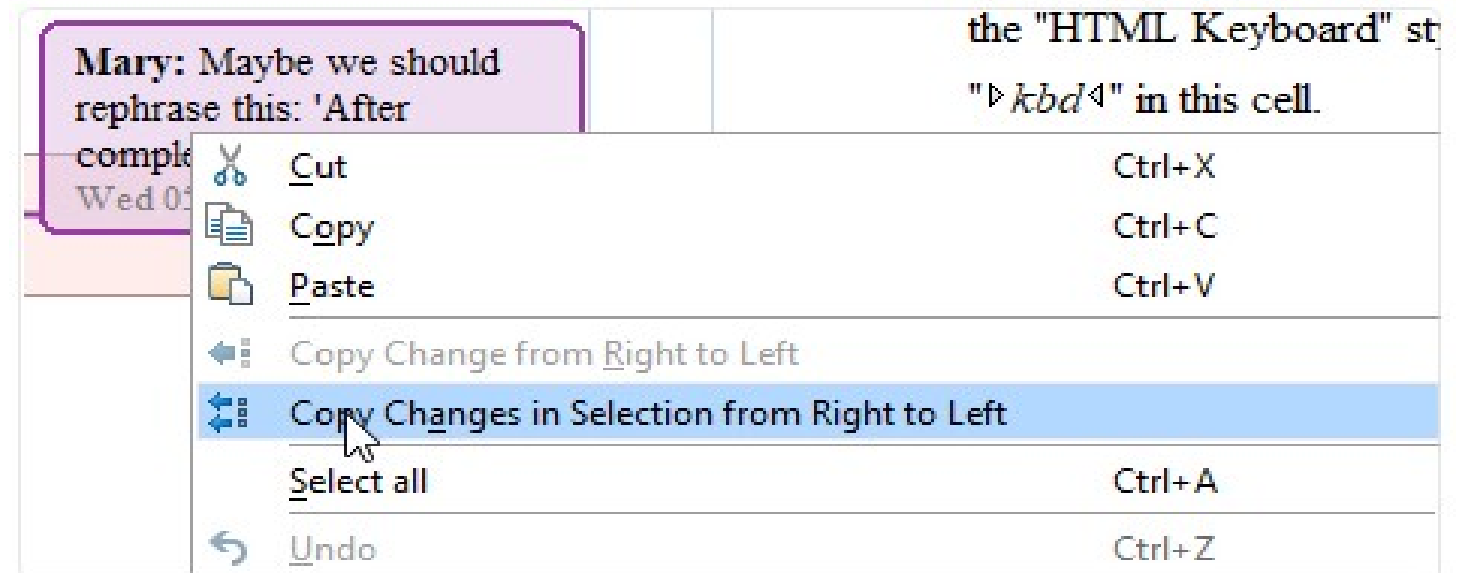
- Oxygen now integrates the XML Calabash 3.X engine
- XProc Configuration
- Extension Libraries

The screenshot shows the 'XProc' configuration dialog. The 'Name' field is set to 'reverseString'. The 'Storage' section has 'Project Options' selected. The 'XProc' tab is active, showing the 'XProc URL' as '\${currentFileURL}', the 'Processor' as 'XML Calabash 3.X', and the 'Configuration file' as 'ects\VideoDemonstrations\WN_28\Samples\Calabash\custom-calabash-confi'. An 'Extensions (1)' button is visible at the bottom right.

Name:	reverseString
Storage:	<input checked="" type="radio"/> Project Options <input type="radio"/> Global Options
XProc Inputs Parameters Outputs Options	
XProc URL:	<code>\${currentFileURL}</code>
Processor:	XML Calabash 3.X
Configuration file:	ects\VideoDemonstrations\WN_28\Samples\Calabash\custom-calabash-confi
Extensions (1)	

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

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