

JSON Support in Oxygen

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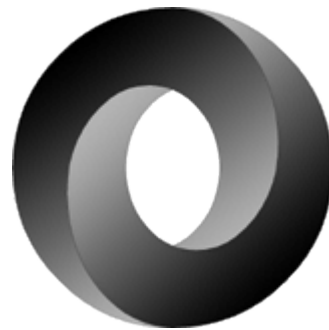
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Overview

- Editing JSON Documents
- Validating JSON Documents
- Querying and Transforming JSON Documents
- Converting JSON Documents

JSON

- JSON (JavaScript Object Notation) is a lightweight data-interchange format



<http://json.org>

JSON Schema

- JSON Schema is a vocabulary that allows you to annotate and validate JSON documents



<http://json-schema.org>

1. Editing JSON Documents

- JSON Text and Grid Editing Mode
- JSON Outline View
- Content Completion Assistant in JSON
- Associate JSON Schema to JSON Documents

Text and Grid Editing Mode

The screenshot displays the Oxygen XML Editor interface with two windows. The left window, titled 'personal.json', is in 'Text' mode and shows a JSON document with line numbers 1 through 22. The JSON structure includes a schema reference, a personnel object with a person array, and a link object with a subordinates array. The right window, titled 'son', is in 'Grid' mode and displays the same JSON data as a table. The table has columns for 'id', 'name', 'family', 'given', and 'email'. It shows three rows of data, with the first row expanded to show the 'name' object's details.

personal.json (Text Mode)

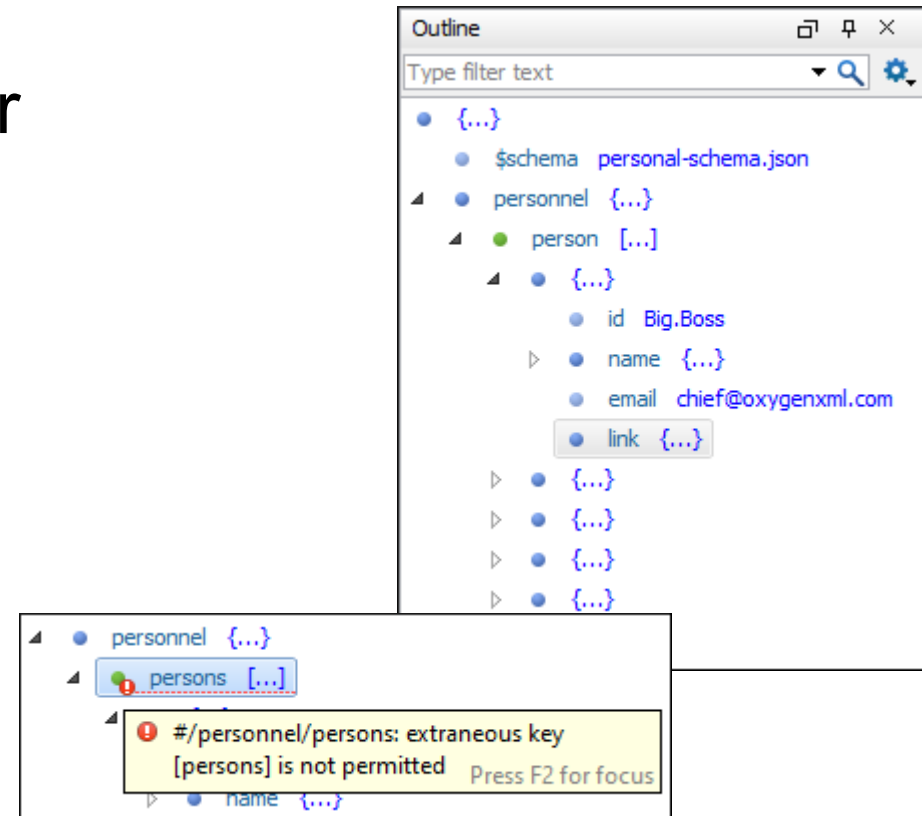
```
1 {  
2   "$schema": "personal-schema.json",  
3   "personnel": {  
4     "person": [  
5       {  
6  
7         "id": "Big.Boss",  
8         "name": {  
9           "family": "Boss",  
10          "given": "Big"  
11        },  
12        "email": "chief@oxygenxml.com",  
13        "link": {  
14          "subordinates": [  
15            "one.worker",  
16            "two.worker",  
17            "three.worker",  
18            "four.worker",  
19            "five.worker"  
20          ]  
21        },  
22      }  
    ]  
  }  
}
```

son (Grid Mode)

schema "personal-schema.json"				
personnel				
person (6 rows)				
id	name	family	given	email
1	"Big.Boss"	"Boss"	"Big"	"chief@oxygenxml.com"
2	"one.worker"	"Worker"	"One"	"one@oxygenxml.com"
3	"two.worker"	"Worker"	"Two"	"two@oxygenxml.com"

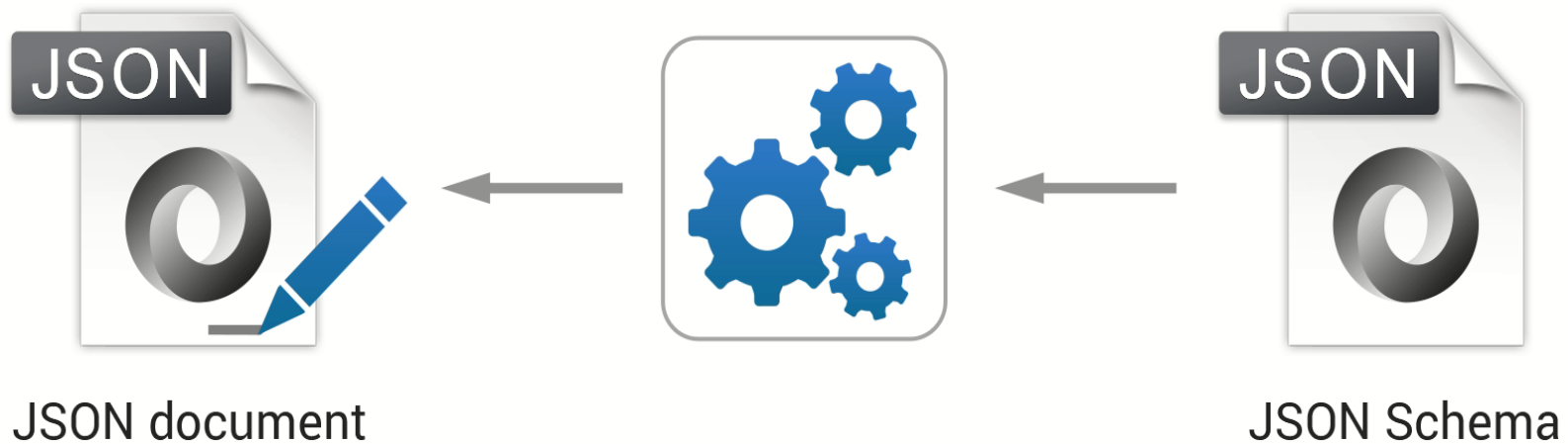
JSON Outline View

- Document Overview
- Synchronization with Editor
- Filtering
- Error Markers



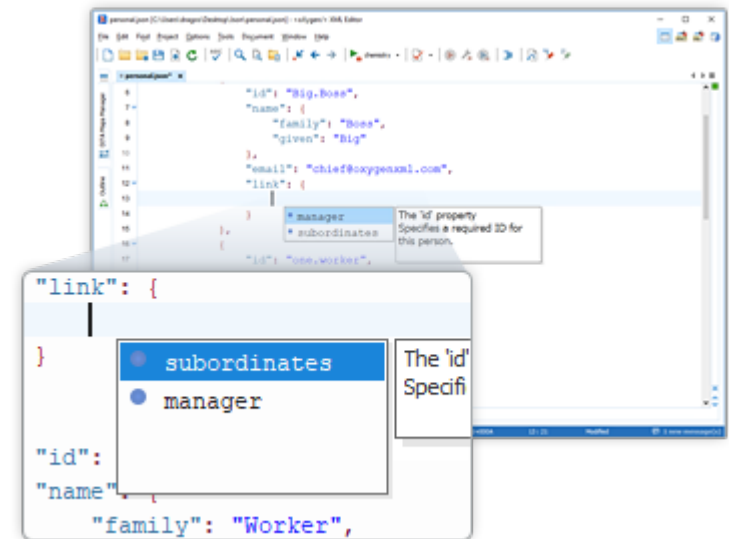
Associate JSON Schema

- Associating a Schema to JSON Documents
 - Directly in JSON Documents
 - Through a Validation Scenario



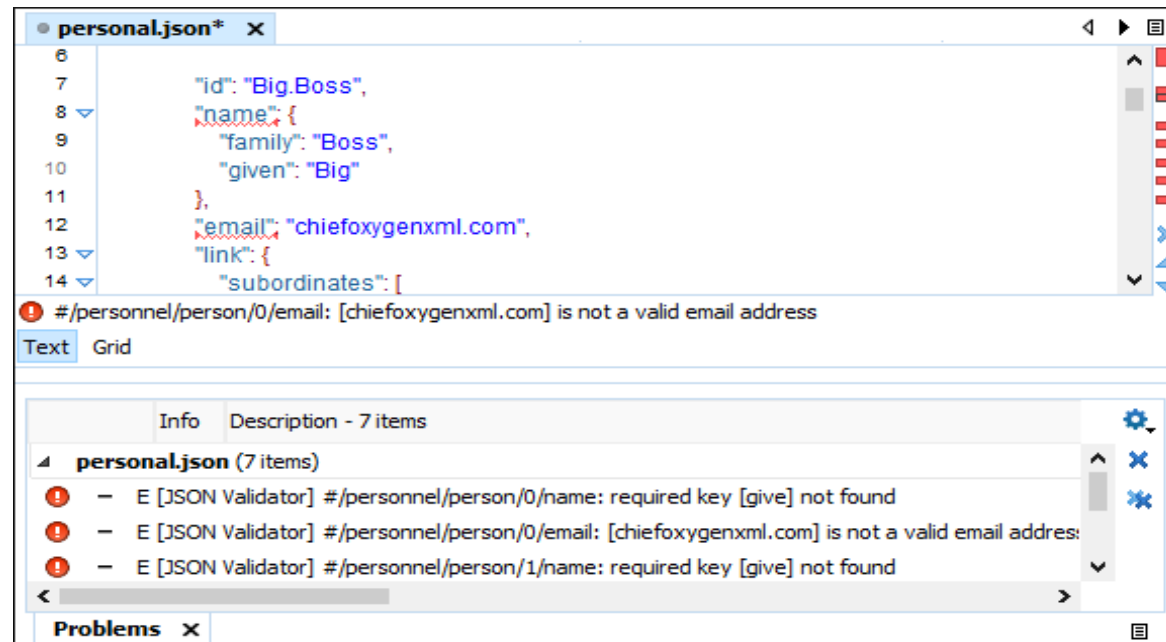
Content Completion

- Context-Sensitive
- Valid Proposals
- Documentation from Schema
- Code Templates



2. Validating JSON Documents

- Checking Well-Formedness in JSON Documents
- Validating JSON Documents Against JSON Schema
- Validating JSON Schema According to the Specification
- Batch Validate

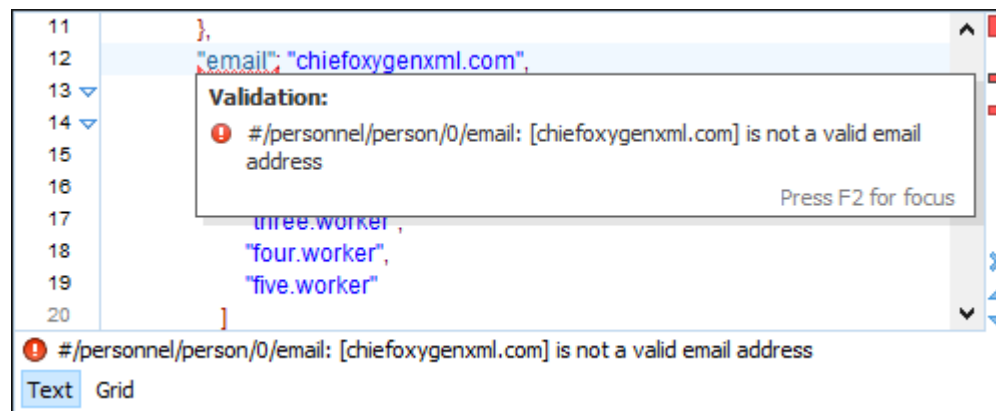


Checking Well-Formedness

- Built-in JSON Well-Formedness Scanner
- Automatically Check for Problems
- Manually Check for Problems

Validating Against JSON Schema

- Associating a JSON Schema
- Automatic Validation
- Manual Validation Actions
- Presenting Validation Errors in JSON Documents



Validating JSON Schema

- Check for Well-Formedness
- Validate Accordingly to the Specification
 - Draft 4
 - Draft 6
 - Draft 7
- JSON Schema Validator

Batch Validate

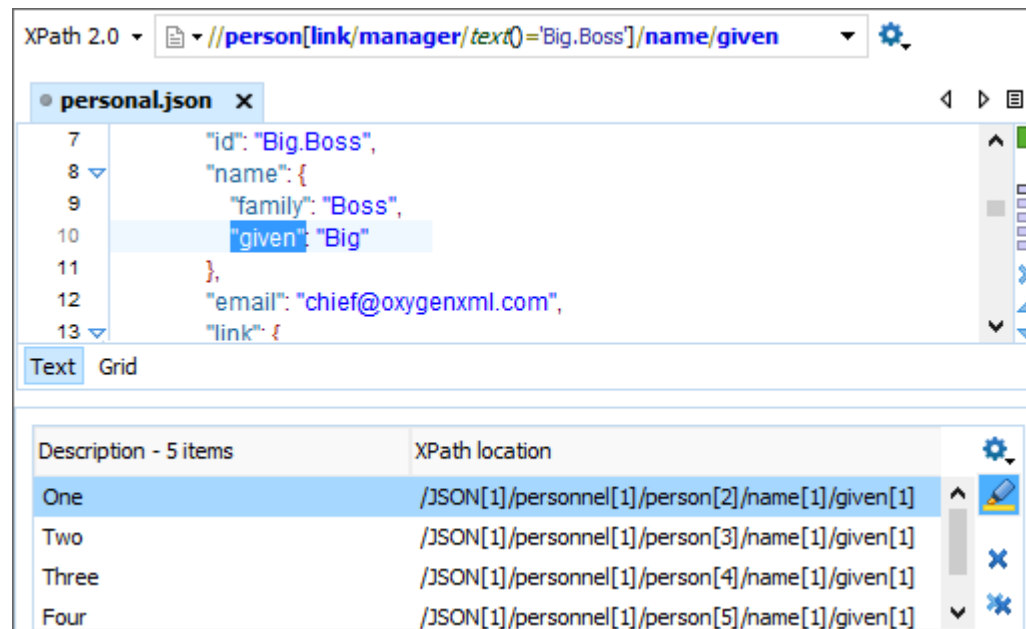
- Validate Multiple JSON Files from Project

3. Querying and Transforming

- XPath Support
- Transform JSON using XSLT
- Transform JSON using XQuery

XPath Support

- XPath Toolbar and XPath Builder View
- Content Completion
- XPath Over Multiple Files



Transform JSON using XSLT

- Transform JSON Documents to Different Formats
- Create XSLT Transformation Scenario for JSON
- Built-in Document Templates
 - XSLT Stylesheet for JSON – uses `json-doc()` function
 - XSLT Stylesheet for JSON to XML – uses `json-to-xml()` function

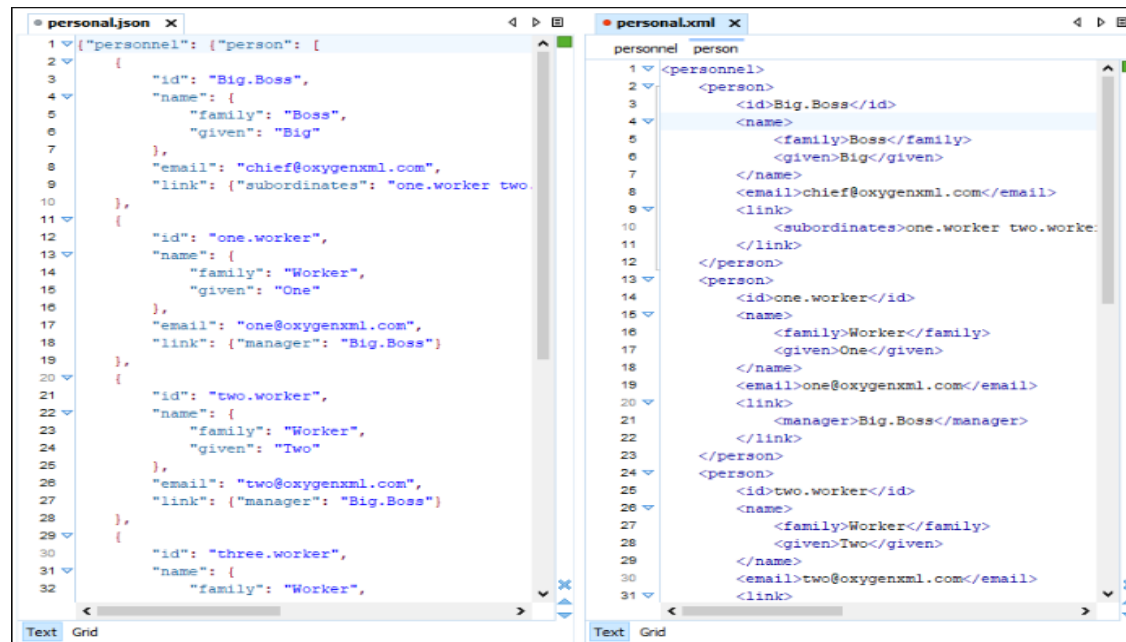
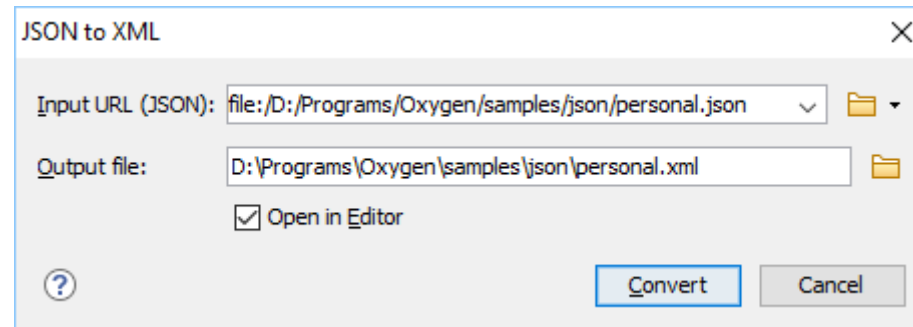
- Create XQuery Transformation Scenario for JSON
- XQuery Builder view



4. Converting JSON Documents

- JSON to XML and XML to JSON
- Batch Conversions
- Online Converter

JSON to XML and XML to JSON



Batch Conversions

- Convert Multiple JSON Files to XML or Vice Versa
- Batch Converter Add-on
 - oxygenxml.com/doc/ug-editor/topics/batch-converter-addon.html

Online Converter

- Oxygen Online XML to JSON Converter



oxygenxml.com/xml_json_converter.html

THANK YOU!

**Any
questions?**

<oXygen/> XML Editor

<http://www.oxygenxml.com>

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