Oxygen JSON Editor

JSON Schema
POWER SHELL
LESS
YAML
SHELL
PHP
JSON
JS DOCKERFILE
CSS JSONL

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®
XML Editor

Agenda

- New product: **Oxygen JSON Editor**

- **Editing** JSON and YAML documents

- **Design** mode for JSON Schema development

- **Validating** JSON and YAML documents

- **Tools** for JSON, JSON Schema, YAML, and OpenAPI documents

- **OpenAPI/AsyncAPI** Support

- **HTML, CSS**, and more

Oxygen JSON Editor

- A specialized tool designed for editing JSON documents

Oxygen JSON Editor- Features

- **JSON** – editing, validation, conversion

- **JSON Schema** – editing, validation, design, refactoring, documentation

- **YAML** - editing, validation, conversion

- **OpenAPI/AsyncAPI** – editing, validation, documentation, testing

- **HTML/CSS** – editing, validation, query, minification/compression

- **Compare Tools** - file and folder comparisons

- **Git/Subversion Client** – for collaboration

- and more …

Availability on Multiple Platforms

- Is a cross-platform application

- Ideal for organizations that need to manage large projects

- Can be run on:

  - OS X

  - Windows

  - Linux

  - All (Windows, Linux/Unix, etc)
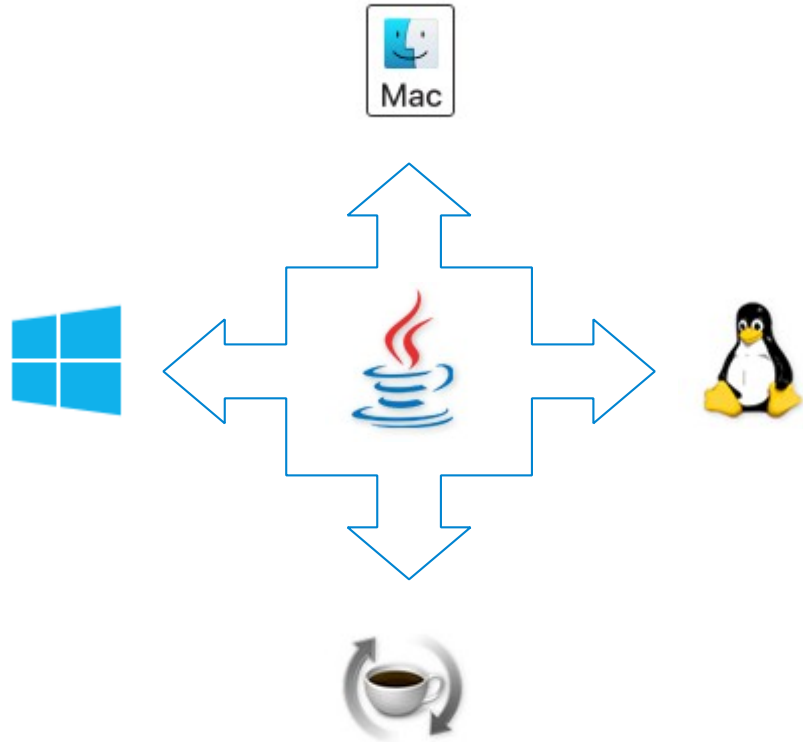
Batch Process a List of Files

- Conversion between XML, JSON, and YAML

- Validate and check well-formedness

- Find and replace in files

- XPath in files

- Format and indent

- Check spelling in files

Subscription License

- 12 Months Subscription
- 6 Months Subscription

- 30-day trial license

https://www.oxygenxml.com/json_editor/buy.html

Why Oxygen JSON Editor?

- User-friendly interface

- Great support for JSON
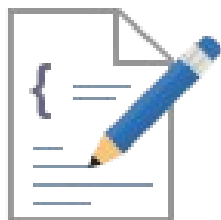
- Auto-complete

- Search and replace

- Batch Processing

- Affordable pricing

Question: Do you use Oxygen for JSON editing?

- ❑ Yes. I use Oxygen

- ❑ Yes. I intend to use Oxygen

- ❑ No. I use other tools

Editing JSON

- JSON Text, Grid, Author Editing Mode

- JSON Outline View

- Validation and Content Completion Assistant based on JSON Schema

Text Editing Mode

- Syntax Highlights

- Structure Folding
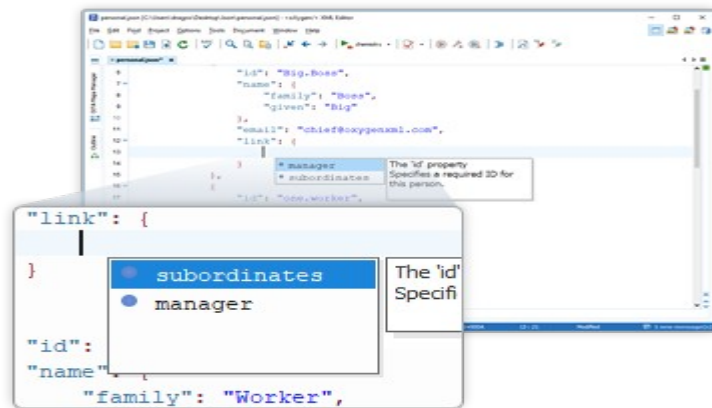
- Format and Indent

- New Document Templates

JSON Outline View

- Document Overview

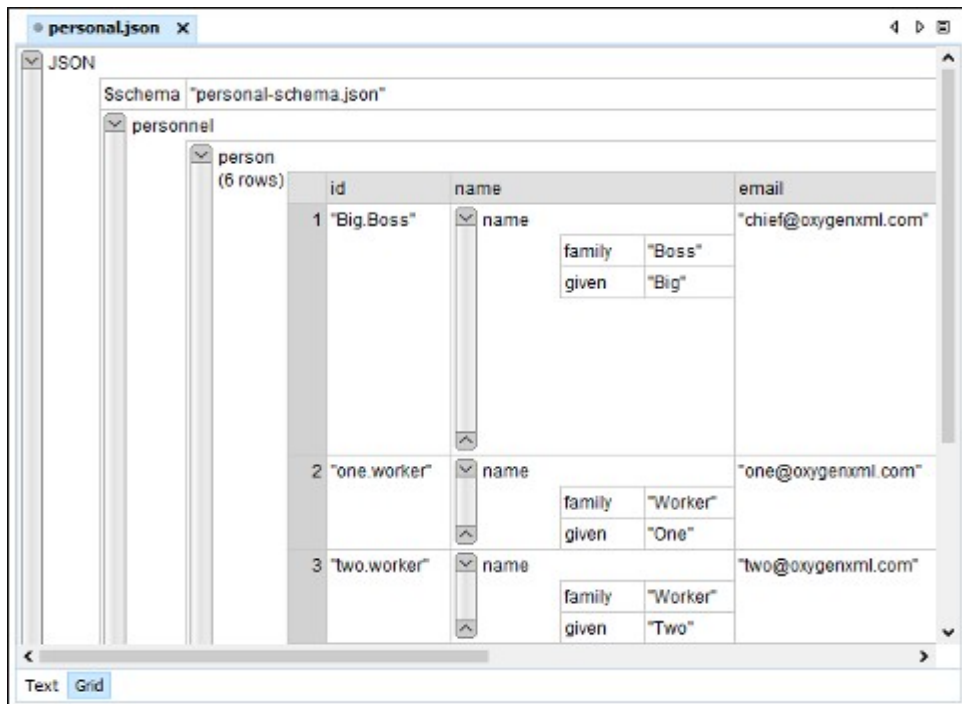- Synchronization with Editor

- Filtering

- Error Markers
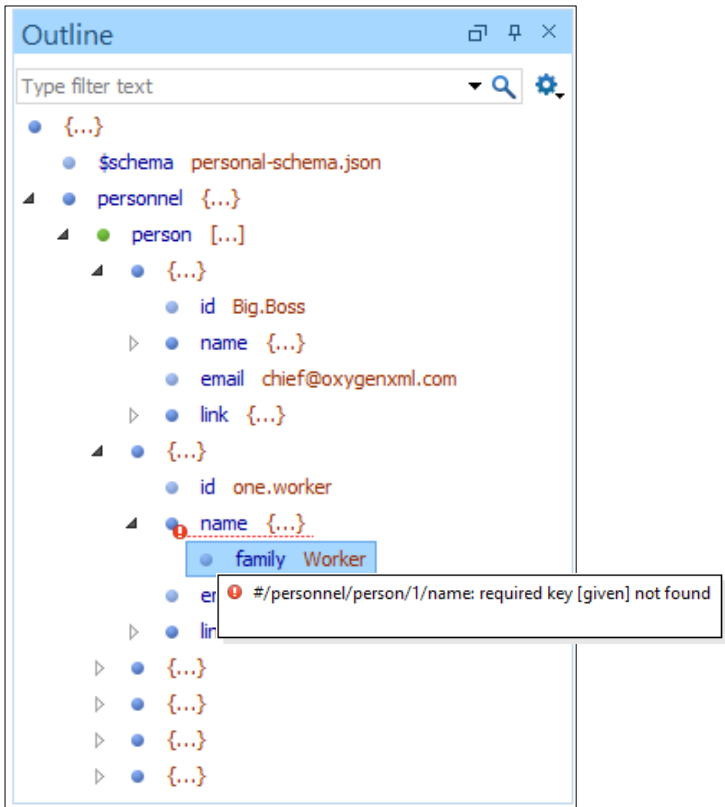
Content Completion

- Context-Sensitive

- Valid Proposals

- Documentation from Schema

- Code Templates
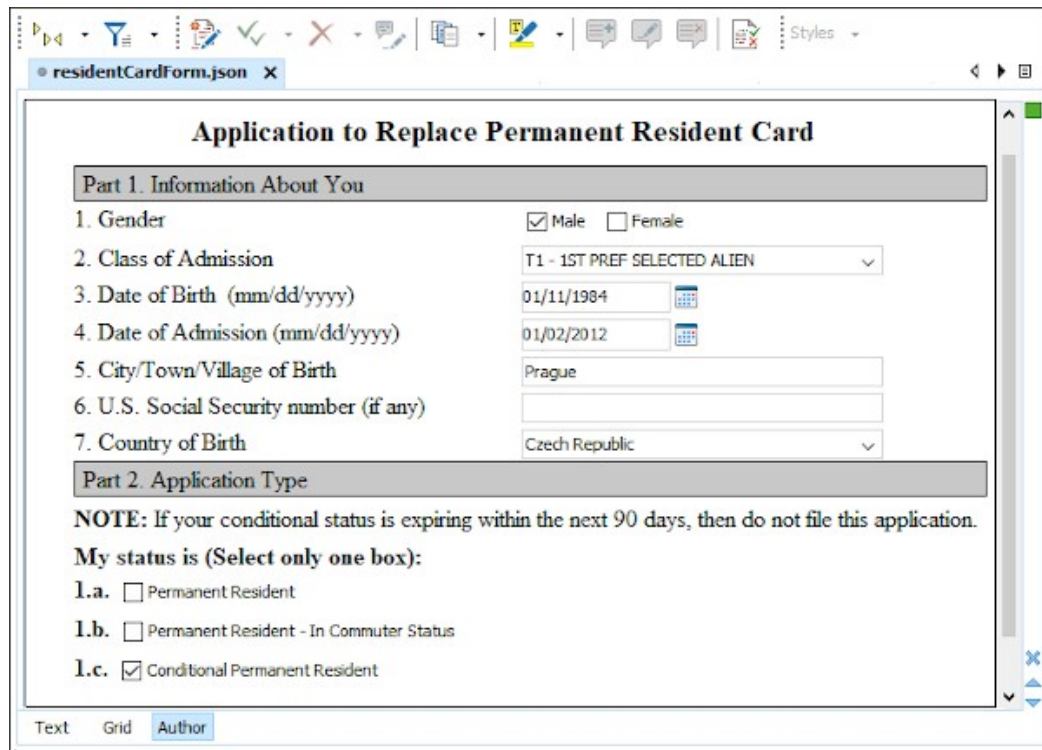
Grid Editing Mode

- JSON content is represented in Grid mode

- JSON data and structure can be easily manipulated

- Table-specific operations or drag-and-drop operations

JSON Visual Author Editing Mode

- JSON document is opened in Author mode

- Create your own JSON framework

- Customize using CSS

JSON Lines

- Editing JSON Lines Documents

- Validation

- Content Completion

YAML

- Editor – syntax highlight, outline view, content completion

- Validation - well-formedness checks, validate YAML against JSON Schema

- Tools - YAML to JSON and JSON to YAML, batch conversions

JSON Schema Editor

Design, develop, and edit JSON Schemas in:

- Text Editing Mode
- Author Editing Mode
- Schema Design Mode
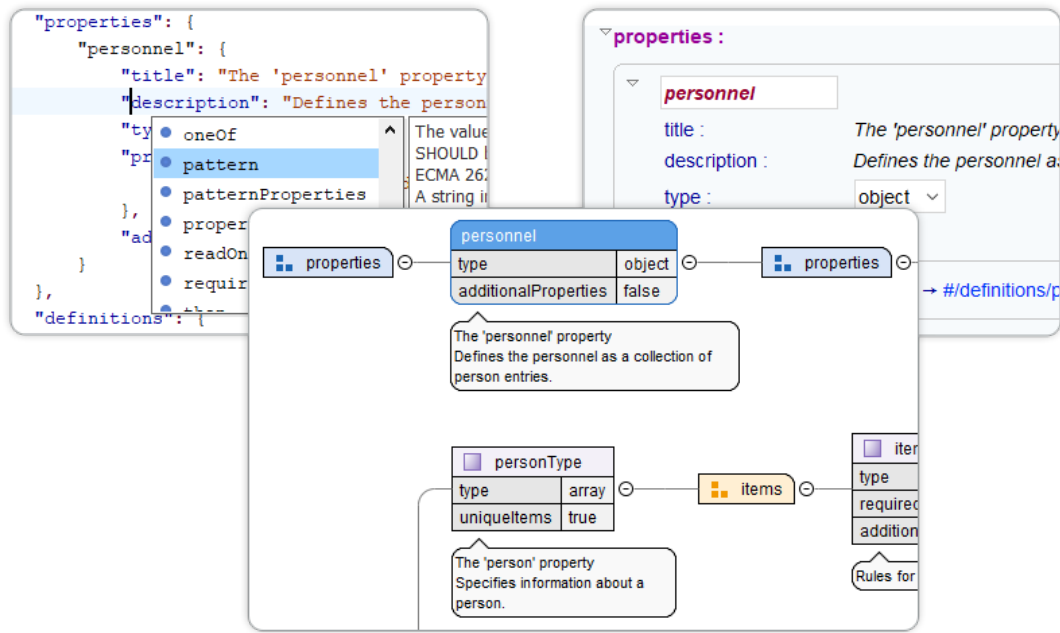
Text Editing Mode

Text editing mode is packed full of editing helpers

- JSON Outline View

- JSON-specific Syntax Highlighting

- Search and Find/Replace

- Drag and Drop

- Validation

- Format and Indent (Pretty Print)
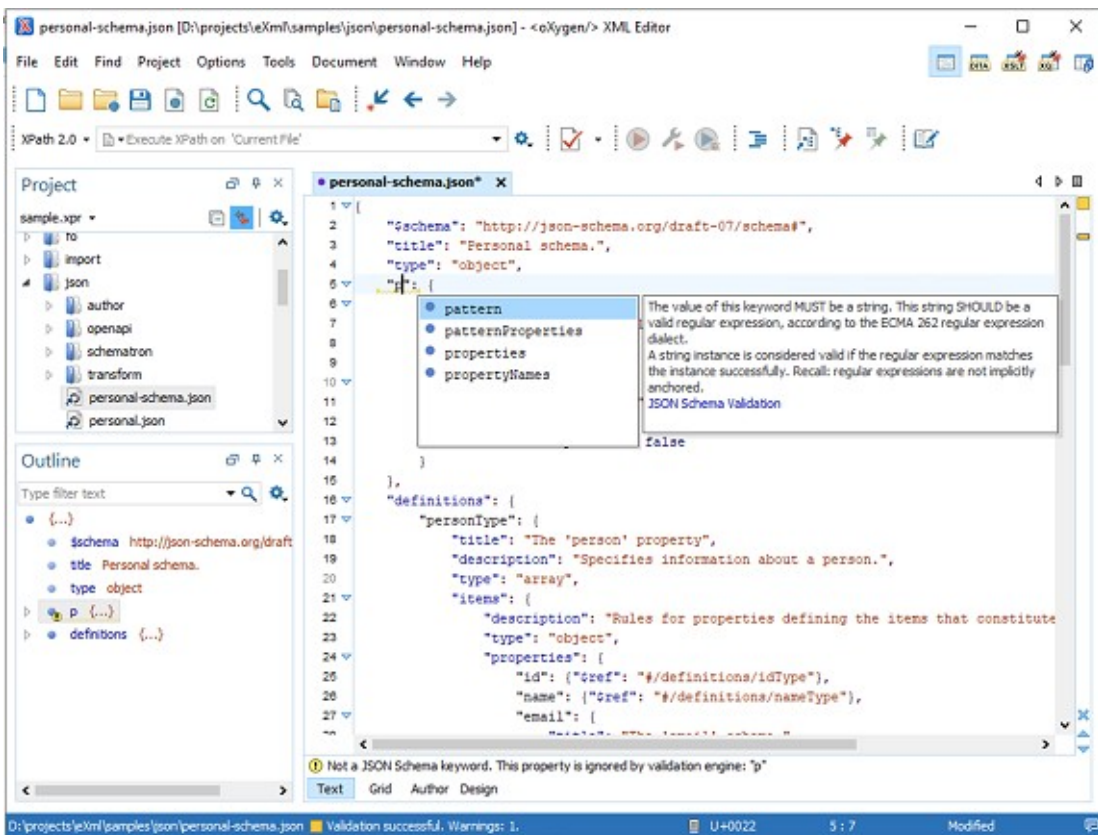
Author Editing Mode

Visual editing mode for JSON Schema documents:

- JSON Schema framework

- Content completion support

- Validation

- Specific CSS for rendering

- Create your own custom JSON framework
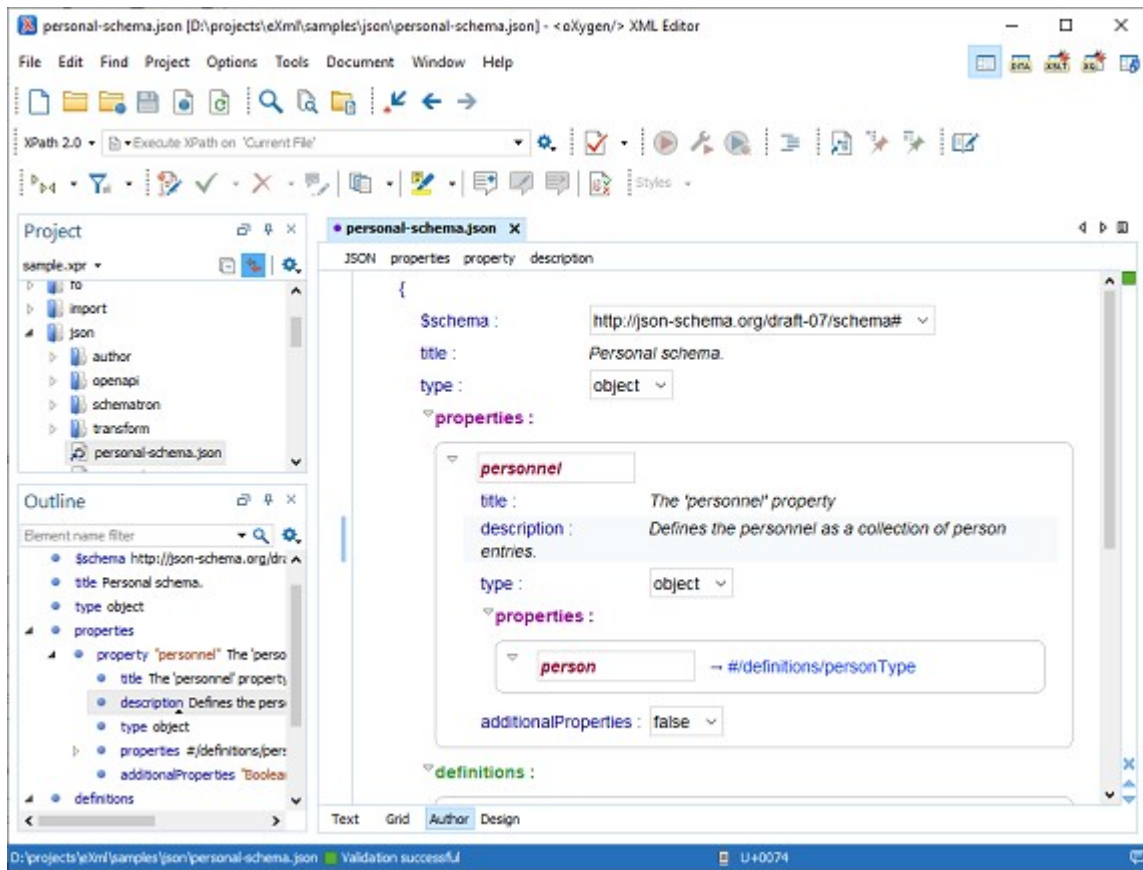
Schema Design Mode

Visualize, edit, and understand JSON Schemas

- **In-Place** Component **Editing**

- **Edit Properties**

- **Edit Annotations**

- Schema **Editing Actions**

- **Move** Component **Up/Down** Actions

- **Print/Save** as Image
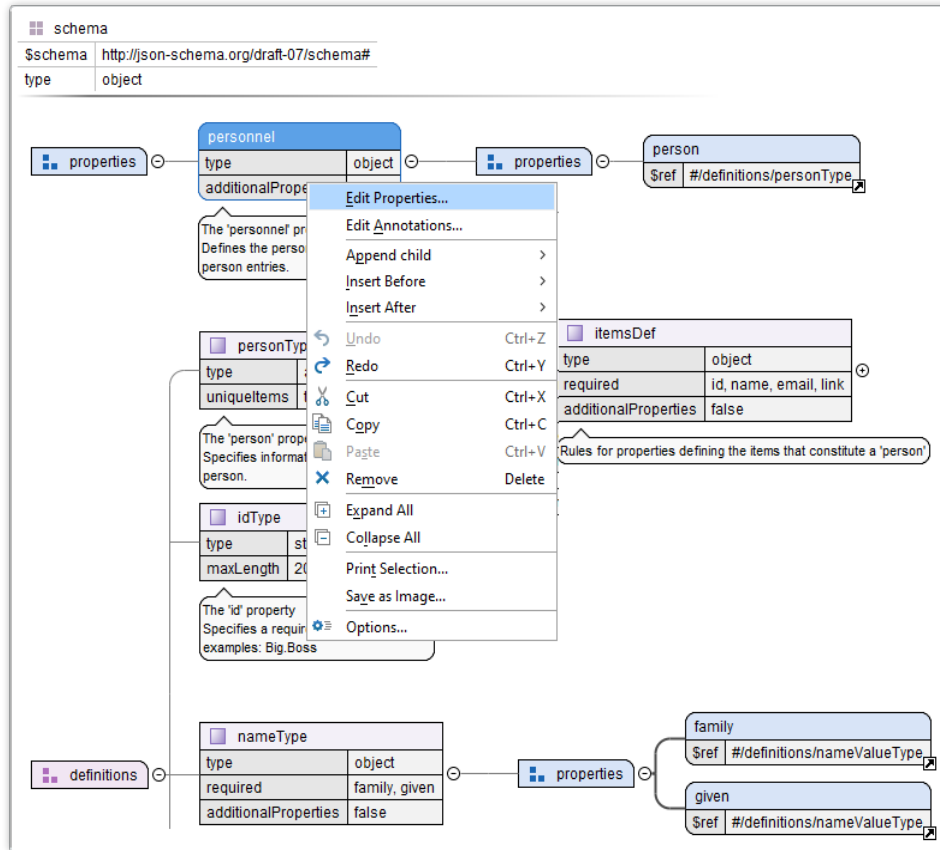
Generate JSON Schema Documentation

- Tool for generating detailed documentation for a JSON Schema file in HTML format
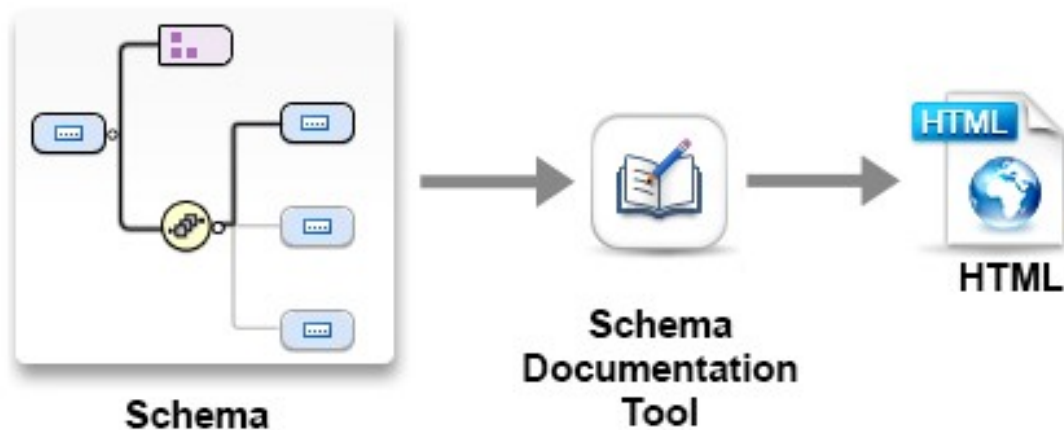
JSON Tools

- Convert between JSON and XML

- Convert between JSON and YAML

- Generate sample JSON files from JSON Schema

- Generate JSON Schema from a JSON instance

- XSD to JSON Schema converter

- Convert JSON Schema to latest versions (2020-12, 2019-09)

<oxygen/>®
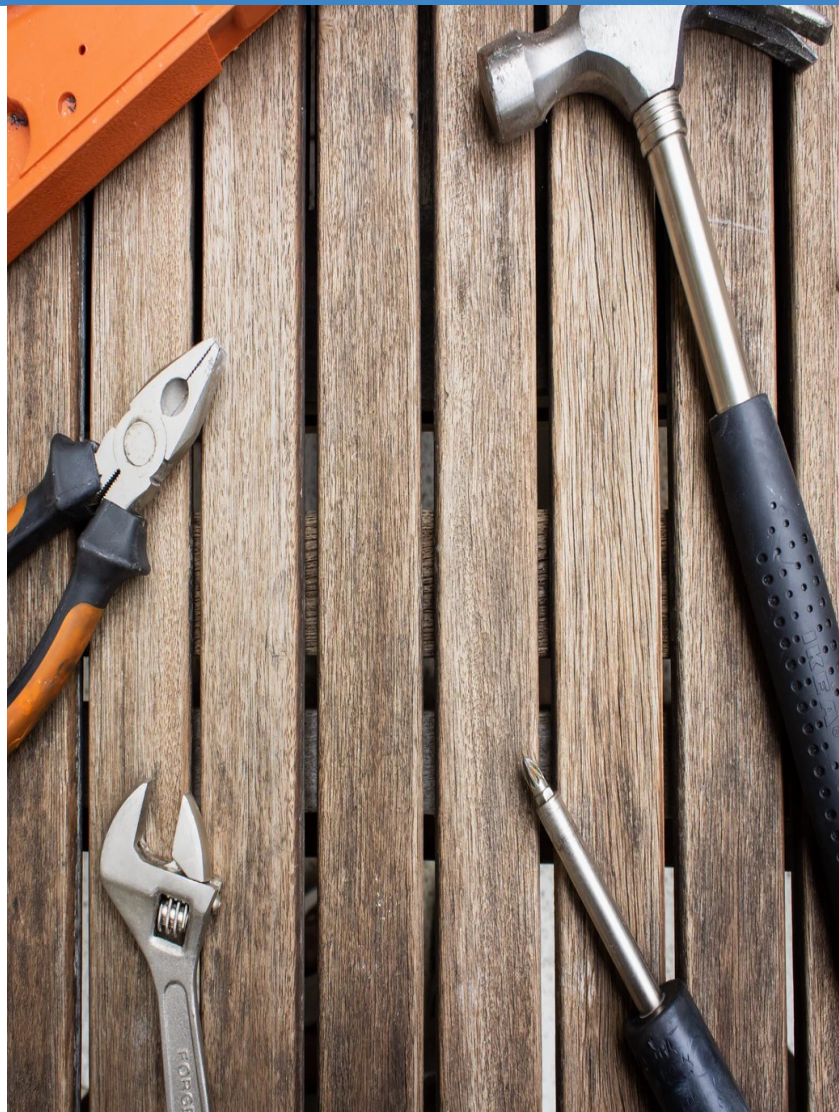
OpenAPI/AsyncAPI Documents

- Can be written in JSON or YAML

- Describe the inputs and outputs of an API

- Include information such as:
    - where the API is hosted
    - what authorization is required to access it
    - details for consumers and producers

OPENAPI

AsyncAPI

OpenAPI/AsyncAPI Editor

- Syntax highlights

- Validation conforms with the schema

- Content completion based on the schema

- Outline view

- Search and replace

OpenAPI/AsyncAPI Visual Editor

- Edit documentation
- Form controls to change values
- Collapsible sections
- Customize interface with CSS

OpenAPI Documentation

- Tool for generating detailed documentation for OpenAPI documents in HTML/DITA format

OpenAPI → Documentation Tool → HTML
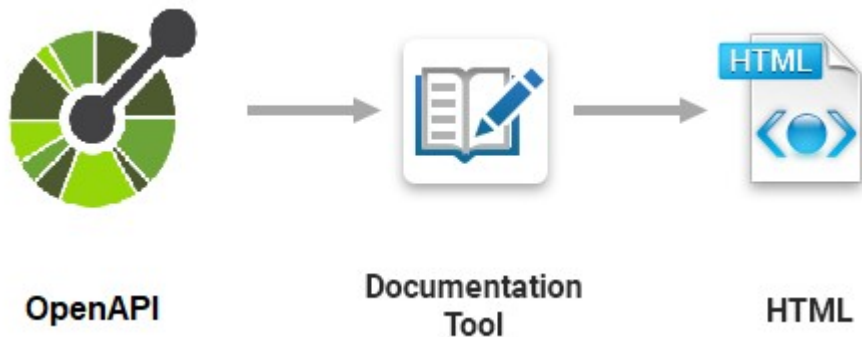
OpenAPI Tester Tool

- GUI interface testing tool for OpenAPI files

- Execute API requests and validate responses on the fly

- OpenAPI files in JSON or YAML format

- Run a test scenario

Other Frameworks

- JSON-LD - is a lightweight Linked Data format

- OpenAPI Test Scenario – test suite for an OpenAPI

- Travel Guide – sample

- Application Form – sample

- Personal – sample

- *framework for any JSON*

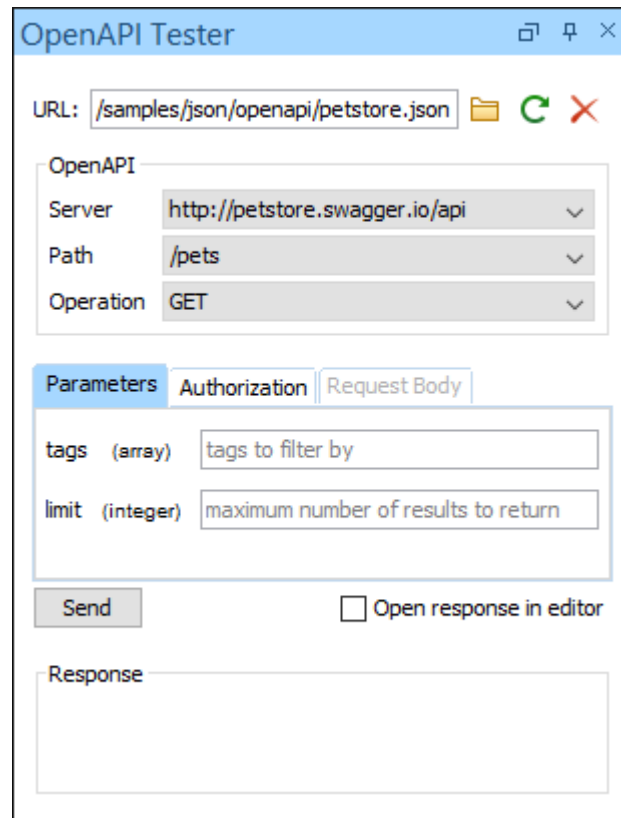| Enabled	Document type	Storage	Priority
☑	AsyncAPI 1.x [extension of: AsyncAPI]	External	Normal
☑	AsyncAPI 2.x [extension of: AsyncAPI]	External	Normal
☑	OpenAPI 2.0 (Swagger) [extension of: OpenAPI]	External	Normal
☑	OpenAPI 3.0 [extension of: OpenAPI]	External	Normal
☑	OpenAPI 3.1 [extension of: OpenAPI]	External	Normal
☑	Application Form (Sample-JSON)	External	Low
☑	AsyncAPI	External	Low
☑	JSON Schema [extension of: JSON]	External	Low
☑	JSON-LD	External	Low
☑	OpenAPI	External	Low
☑	OpenAPI Test Scenario	External	Low
☑	Personal (Sample-JSON)	External	Low
☑	Travel Guide (Sample-JSON)	External	Low
☑	XHTML	External	Low
☑	HTML [extension of: XHTML]	External	Lowest
☑	JSON	External	Lowest

Question: What features do you consider more important?

- JSON
- YAML
- JSON Schema
- OpenAPI/AsyncAPI
- Other (use the questions panel)

HTML/CSS

- HTML5/CSS editing support

- Validation of HTML5/CSS using W3C "Nu Html Checker"

- Query using XPath

- Compress HTML5 and CSS

- Emmet snippets
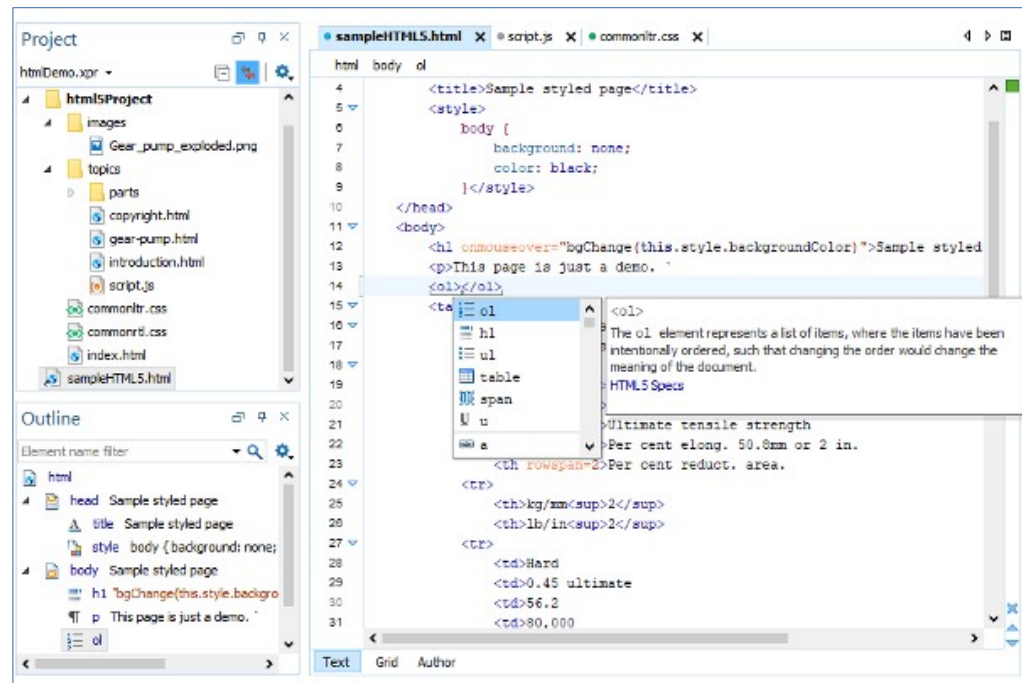
XML Documents Supported

- Editor – syntax highlight, content completion, outline view
- Validation – with schema associated in the editor
- Tools – conversion between XML and JSON

Other File Types Supported

- JavaScript documents

- Markdown documents

- Python documents

- Text, Java, SQL, Properties, Batch, Shell, Power Shell, Dockerfile, and PHP.

Compare

- Compare and merge files (2-way and 3-way)

- Compare and merge directories (2-way and 3-way)

- Generate comparison report

Versioning Systems

- Git Client – add-on that contributes a built-in Git client directly in Oxygen JSON Editor

- Subversion (SVN) Client

Conclusion

Oxygen JSON Editor

- Tool specialized for JSON

- Great features

- Cross-platform application

- Affordable pricing

Future Plans

- JSON Transformation with XSLT/XQuery

- Improve OpenAPI/AsyncAPI support

- JSON5 support

- Support for ChatGPT fine-tune files

- *feedback is welcome*

Question: What future developments would you like to see?

- JSON Transformation with XSLT/XQuery
- Improve OpenAPI/AsyncAPI support
- JSON5 support
- Support for ChatGPT fine-tune files
- Other (use the question panel)

Resources

- oxygenxml.com/oxygen_json_editor.html

- oxygenxml.com/json_editor/whats_new.html

- oxygenxml.com/doc/ug-json/

- oxygenxml.com/json_editor/videos.html

- oxygenxml.com/json_editor/buy.html

Video Demos

- oxygenxml.com/demo/json_schema_palette.html

- oxygenxml.com/demo/introducing_the_json_schema_design.html

- oxygenxml.com/demo/json_author.html

- oxygenxml.com/demo/json_tools.html

- oxygenxml.com/demo/json_validation.html

- oxygenxml.com/demo/json_editing.html

- oxygenxml.com/demo/json_query.html

Questions?

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