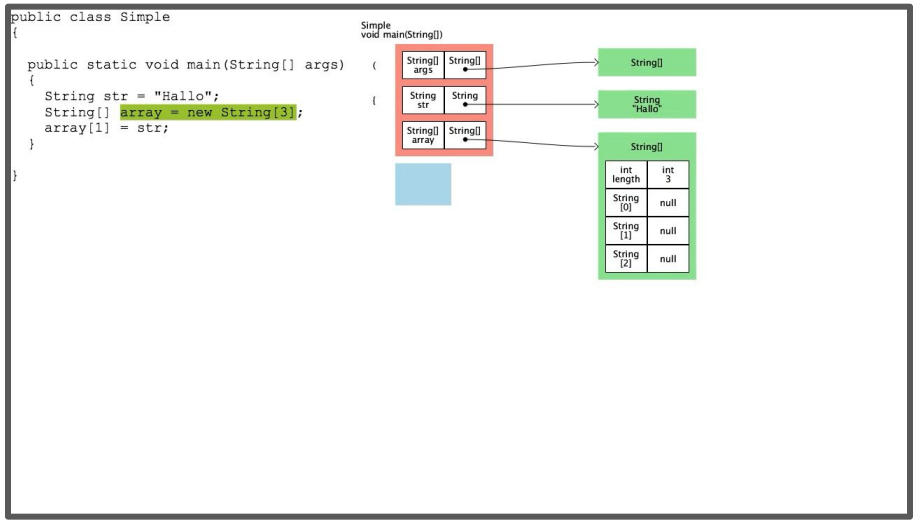
XSD Visualizer Plugin: Simplify XSD Understanding (even for Beginners)

Declarative Amsterdam 2023

Introduction

- Sven Reinck
- From Hamburg, Germany
- Graduated as Master of Computer Science in 2007
- Freelance IT-Trainer since 2012
  - Java, Kotlin, Groovy, C++, OpenGL, JavaFX, GoLang

Javis (Java Visualizer)



- Developed since 2014
- Founded FLUXparticle in 2019
- Developed XSD Visualizer plugin since 2021
- Focus on visualization
- Not a daily user of XML

Data vs Document

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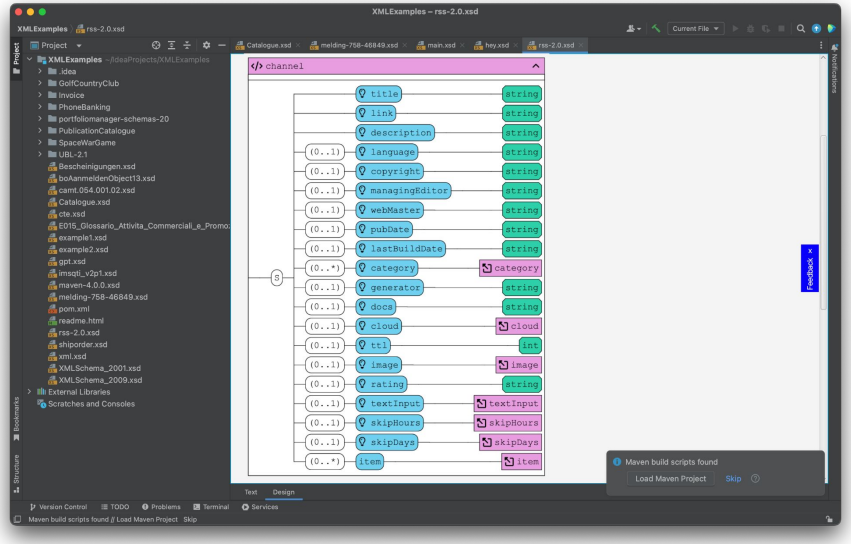
<XMLSchemaDependencies>
   <Declaration name="identifiedType" type="TYPE"/>
   <Declaration name="beans" type="ELEMENT">
        <Dependency ref="description" type="USES"/>
        <Dependency ref="import" type="USES"/>
        <Dependency ref="alias" type="USES"/>
        <Dependency ref="bean" type="USES"/>
        <Dependency ref="beans" type="USES"/>
   </Declaration>
   <Declaration name="description" type="ELEMENT"/>
   <Declaration name="import" type="ELEMENT"/>
   <Declaration name="alias" type="ELEMENT"/>
   <Declaration name="beanElements" type="GROUP">
        <Dependency ref="description" type="USES"/>
        <Dependency ref="meta" type="USES"/>
        <Dependency ref="constructor-arg" type="USES"/>
        <Dependency ref="property" type="USES"/>
        <Dependency ref="qualifier" type="USES"/>
        <Dependency ref="lookup-method" type="USES"/>
        <Dependency ref="replaced-method" type="USES"/>
   </Declaration>
</XMLSchemaDependencies>
```

```
<chapter>
   <title>My title goes here</title>

   <para>Paragraph text goes here.</para>

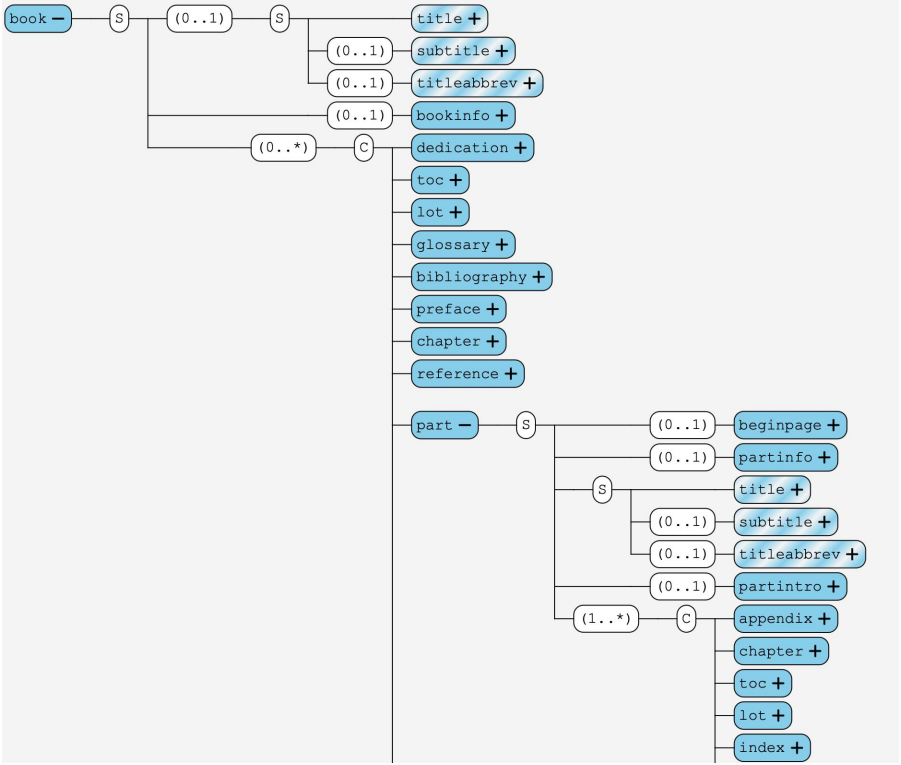
   <section>
      <title>A section title</title>
      <para>
         More paragraph text.
         Some in <emphasis>italics</emphasis>.
      </para>
   </section>
</chapter>
```

XSD Visualizer Plugin



- Directly where you need it
- Visualization is tightly packed
- Annotations as a tooltip (Light bulb)

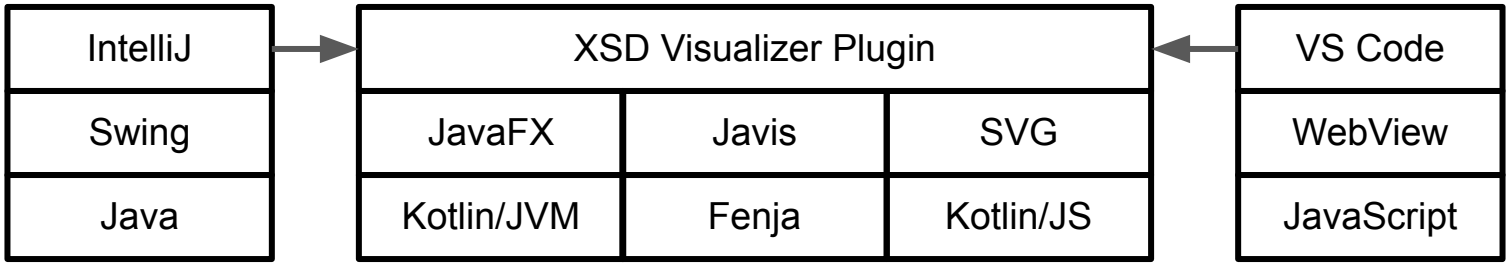
Future Developments: Tree View



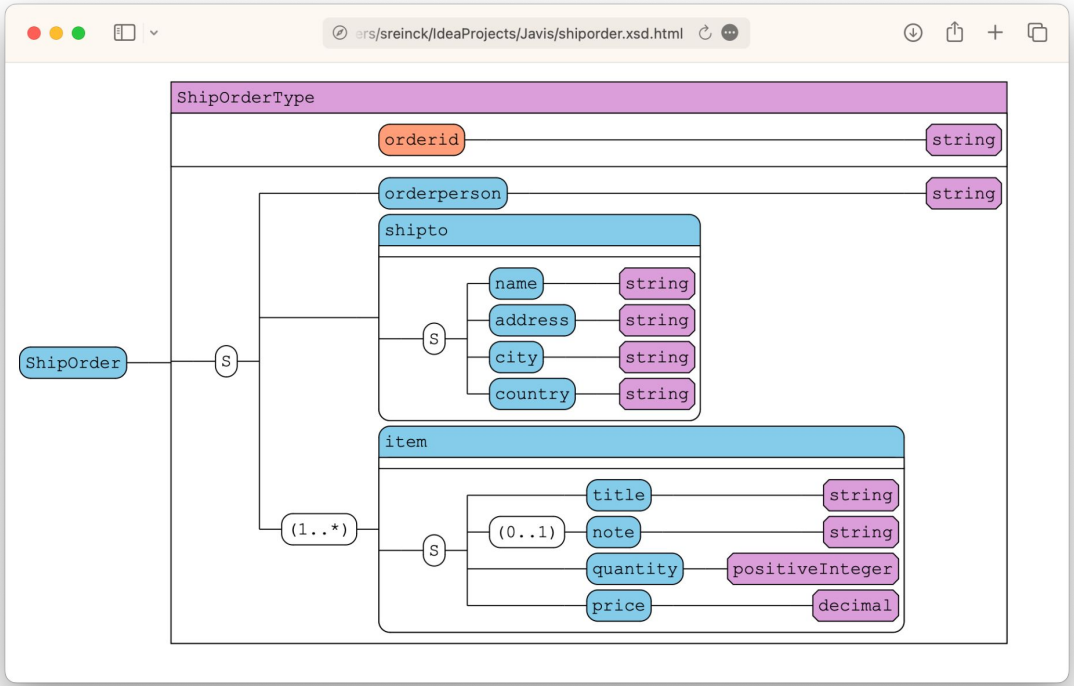
- Similar to Near&Far

Demo

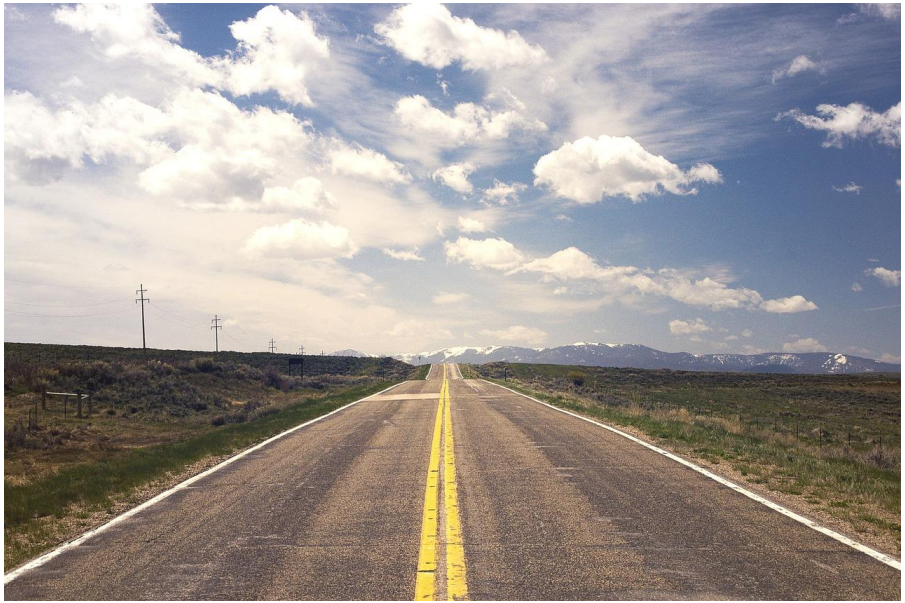
Technical Details



HTML/SVG Export



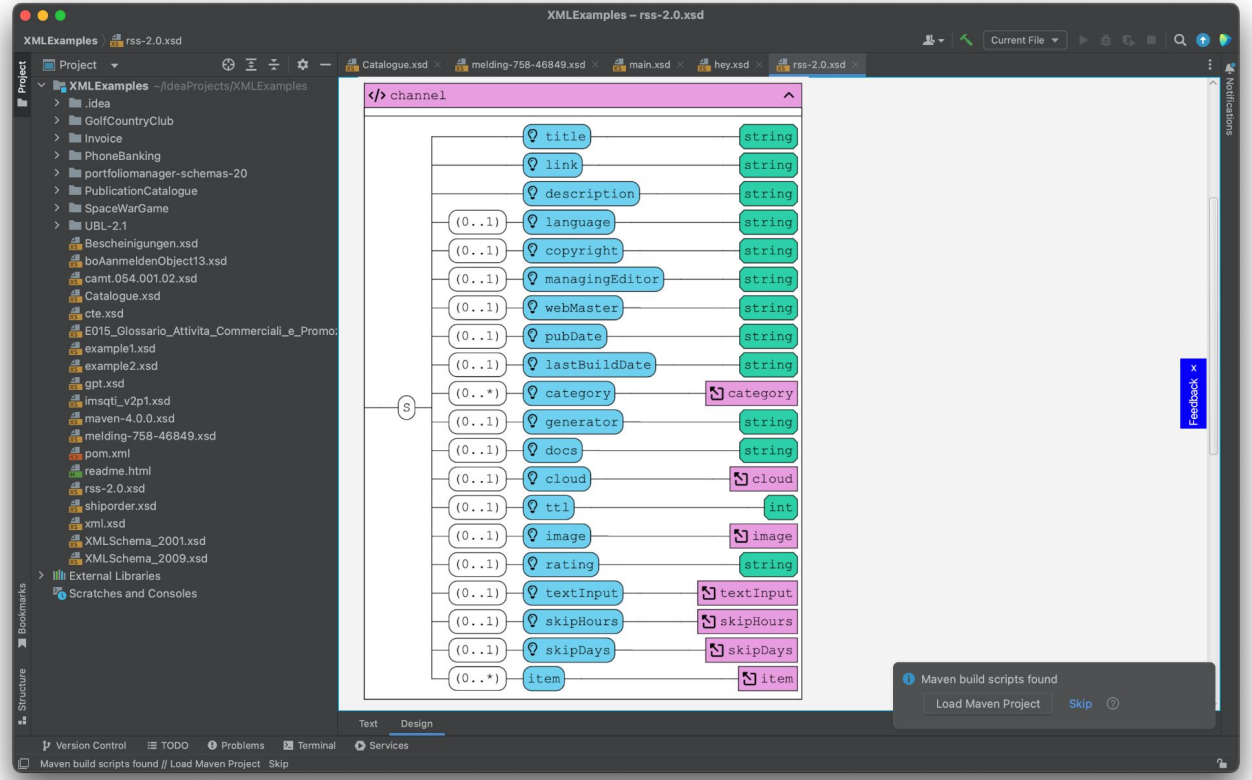
Other Schema Formats



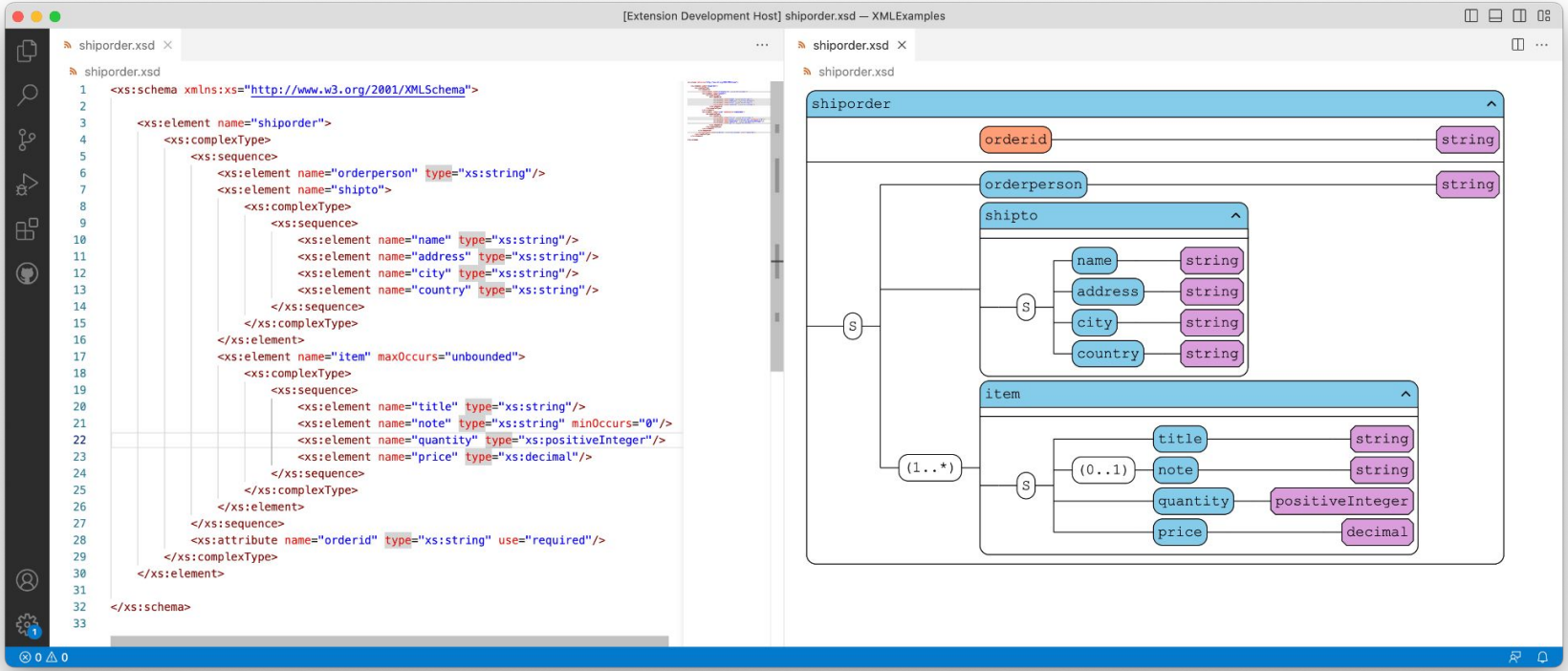
- Schematron?
- Relax NG
- JSON Schema

Schema Design in AR/VR?

IntelliJ: "XSD / WSDL Visualizer"



Visual Studio Code: "SchemaViz"



Thanks for listening!

- Please fill out the Survey: https://www.fluxparticle.com/xsdvisualizer/ (QR Code)
- E-Mail: sreinck@fluxparticle.com
- Slack: XML.com (Sven Reinck)
- Twitter: @FLUXparticleCOM