

## XSLT

 Duration: 3 Days

 Available Languages: English

### Audience

Software Developers, Web Developers with some experience in XML.

### Precondition

Attendees should be familiar with programming in general and with XML.

### Goals

Learn how to use the XSLT programming language to transform XML documents.

### Contents

- History of XSLT, Differences to CSS and DSSSL
- Associating XSLT stylesheets with XML documents
- Basic structure of an XSLT 3.0 transformation stylesheet
- Differences from XSLT 2.0 and XSLT 1.0
- XPath 3.1 Syntax
  - Type System
  - Tests
  - Steps
  - Differences from XPath 3.0, XPath 2.0 and XPath 1.0
- XPath 3.1 Functions and Operators
  - Numeric
  - String
  - URI
  - Boolean
  - Duration, Date and Time
  - QName
  - Binary
  - Node
  - Sequence
  - Context functions
  - Higher-order functions
  - Maps and Arrays
- Modular XSLT – Importing and Including Stylesheets, Packages
- Functions and Named Templates
- Parameters and Variables
- Multiple Input Documents
- Multiple Output Documents
- Formats

- Sorting `xsl:sort`
- Conditionals `xsl:if`, `xsl:choose`
- Repetition `xsl:for-each`, `xsl:iterate`
- Serialization
  - Controlling output attributes (doctype, encoding etc.)
  - Output Methods: xml, html, xhtml, text, json, adaptive
- Streaming, Merging, Accumulators; Streamability of elements
- Key Examples
  - Identity Transformation
  - Generating a Table of Contents in XHTML
  - Converting XML data to a sorted XHTML table

The XSLT processors used in this training are:

- Saxon-HE 10-2 (released 2020-08-26) (in-house with license: Saxon-EE 10.2)
- Gnome xsltproc (libxslt 1.1.34 / libxml2 2.9.10)
- Apache Xalan-Java 2.7.2
- Apache Xalan-C 1.11.0 (on request)

## Booking

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