

# Java Training: XML Programming, Web Services, Beans & AJAX (JXML, 4 jours)

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## Description

The course XML Programming, Web Services, Beans & AJAX (Java Training) is an exploration of XML programming with Java. The training starts with an overview of XML, AJAX & Java web development. With this in hand, the course covers advanced XML programming including DTD, Schemas, & Stylesheets. You are shown how to parse, validate & transform XML with Java using JAXP with SAX and DOM. By the end of the training, you will have developed a Java web application that makes use of XML, web services and AJAX.

## Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

## Plan de cours

### Eclipse, Java and XML

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The JDK: Comparing Versions

Exploring Eclipse

AJAX: The Architecture

Packages and Namespaces Defined

Essential Classes for AJAX

Essential Classes for XML

Creating a Web Site

### XML Document Basics

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How XML Works

Well Formed XML Documents

XML Comments Whitespace Usage

Using Prohibited Character Literal Entities

Well-Formed XML Summary

XMLDOM XPath

### XML Document Validation: Schemas

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Purpose Design of XML Schemas

Schema Document Basics

Schema Namespaces

XSD Schemas

Schema Data Types: Simple Complex

Using Element Groups

Attribute Groups

Creating Custom Data Types

Schema Comments

Importing Schemas

Linking the XML Document to a Schema

### XSL Stylesheets

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XSL Stylesheet Basics

Stylesheet Output/Format

XSL Templates

Linking XML Documents to XSL Stylesheets

Using XSL to Transform XML to HTML

XSL Variables

XSL Parameters

XSL Conditional Elements

XSL Loops

Other Useful XSL Elements

Creating Document Elements Attributes

New Features in XSLT 2.0

XML Programming in Java

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JAX versus SAX:

About Serialization

Serialization Behaviour

Creating XML Documents

Validating XML Documents

XML Beans

Advanced XML Beans

Web Services

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Web Services Technologies

Web Services: The Messaging Lifecycle

Creating a Web Service

Creating a Web Service Client

About Security and Profiles

Web Services and Classes

AJAX Fundamentals

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Overview

Writing an Pure Ajax Application

AJAX Overview for Java

Java's AJAX Capabilities

Overview of AJAX Development in Eclipse

Debugging and Tracing AJAX Applications

Globalizing AJAX Applications

AJAX Library

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Why Create Custom Scripts

AJAX Library Overview

Using Extensions to Java Script

Client Script Integration

Embedding JavaScript

Embedding Resources for use with Java Script

Web Services and Web 2.0

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Overview of Web Service Integration

Using Web Services in AJAX

Exposing Web Services to Script

Calling Web Services from Script

AJAX : An Advanced Example

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Setting the Stage: The Business Problem

Architecting the Solution

Creating the Services

Creating the Interface

Creating the Scripts

Putting it All Together

Securing the Services

Monitoring and Tuning the Application