

XSD

XML Schema Definition

Project Summary

- ▶ Create your own XML (or use Books)
- ▶ Write its own Schema (XSD)
- ▶ Develop an XML Validator in Java

The Validator

- ♦ Parse the XML file with DOM API
- ♦ Load your XSD through the SchemaFactory
- ♦ Generate a new Validator for that
- ♦ Finally validate the original XML

The main classes

- `javax.xml.parsers.DocumentBuilder`
- `javax.xml.validation.SchemaFactory`
- `javax.xml.validation.Schema`
- `javax.xml.validation.Validator` tip: use DOMSource class!

ANT

Another neat tool

ANT setup

1. Download ANT from: <http://ant.apache.org/bindownload.cgi>
2. Set some environment variables:
 - ✦ required: %ANT_HOME% --> “ANT installation path C:\...”
 - ✦ optional: %JAVA_HOME% ---> “JDK installation path”
 - ✦ required: %PATH%=...maybe-other-entries...;%ANT_HOME%\bin
3. Testing:
 - ✦ open new prompt and type: `ant -version`

ANT Project

- ♦ Use the previous project or create a simple Java class that takes in input 2 integer from the command line and perform the sum.
- ♦ Use ANT to:
 1. create the “build” directory
 2. compile the source file
 3. run the program
 4. create a “clean” target (optional)