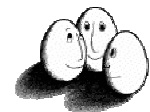




# Editoren für XML

Zou Jiong

10.04.2007





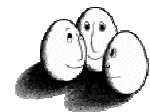
## **XML ist eine textbasierte Markup Sprache**

XML ist reiner Text, kann in jedem ASCII Texteditor  
verarbeitet werden

Bsp: Notepad, aber schlecht

Notepad kann dir kein gut XML verarbeiten helfen

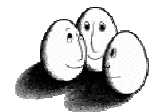
Weil Notepad weiss nicht, dass du XML verarbeiten.





# Wieso spezial XML Editor benutzen

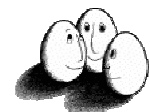
- error-frei XML Documents zu bearbeiten
- XML-based Technologie zu nutzen





# XML-based Technologie

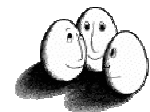
- XML Schema zu definieren XML Struktur und Data Type
- XSLT zu transformieren XML Data
- SOAP auszutauschen XML Data zwischen Applications
- WSDL zu beschreiben Web Services
- RDF zu beschreiben Web Resources
- XPath und XQuery zugreifen XML Data
- SMIL zu definieren Graphics





## Professionell XML Editor kann tun

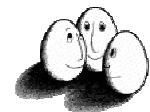
- Helfen zu bearbeiten Error-frei XML Documents,
- Überprüfen XML gegen DTD oder Schema,
- Benutzen gültig XML Structure.





# XML Notepad

- einfacher Editor von [Microsoft](#)
- eignet sich gut zum schnellen Überprüfen und Überarbeiten von XML-Dokumenten
- höhere Ansprüche kann man damit aber nicht realisieren.
- nutzt aber nicht die Document Type Description (DTD).





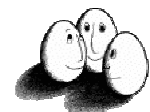
The screenshot shows the XML Notepad application window titled "Standard.xml - XML Notepad". The interface includes a menu bar (File, Edit, View, Insert, Tools, Help), a toolbar with various editing icons, and a main workspace divided into three panels: Structure, Values, and a text editor.

**Structure Panel:** Displays a tree view of the XML document structure. The root element is `html`, which contains `head` and `body` elements. The `head` element contains `title`, `base`, and `[COMMENT]`. The `body` element contains `text`, `bgcolor`, `link`, `alink`, `vlink`, `[COMMENT]`, `a`, `table`, `tr`, and `tr`. The `a` element contains `name` and `[COMMENT]`. The `table` element contains `border`, `frame`, `rules`, `width`, `align`, `cellspacing`, `cellpadding`, `[COMMENT]`, and two `tr` elements, each containing an `align` element.

**Values Panel:** Displays the values for the selected element. The values are:

| Value                               |
|-------------------------------------|
| Helpdesk von Nordwind               |
| Standardlink für Seite              |
| #000000                             |
| #FFFFFF                             |
| #003399                             |
| #FF9933                             |
| #996633                             |
| Standardfarben für Seite            |
| Top                                 |
| Anchor für Seitenanfang             |
| 0                                   |
| 100%                                |
| 0                                   |
| 0                                   |
| Rules/frame wird bei Rand verwendet |
| Top                                 |

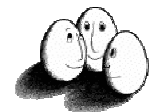
The status bar at the bottom of the window shows "For Help, press F1", the taskbar with "Start", "Standard.xml - XML N...", and "einbindung.bmp - Paint", and the system tray with "NUM", "20:28", and other icons.





# XML Editor: XMLSpy

- Hersteller: Altova
- Download: <http://www.altova.com>
- Aktuelle Version: XMLSpy 2007

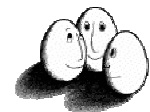







# XMLSpy

- Einfachere und schnellere XML-Entwicklung
- Erstellung standardkonformer XML-Dokumente
- Entwicklung professioneller XML-Applikationen



TheAgency


- XML Files
  - NikiDevgood.xml
- Stylesheets
- DTD/Schemas
  - TheAgency.xsd
- Queries
  - Agent.xquery



First Name: **Niki**  
 Last Name: **Devgood**  
 Title: **Special Agent**  
 E-Mail: **ndevgood@xmlspy.n**  
 Phone: **007 035 2334**

Clearance Level: **Top Secret**

Photo Id:



Synopsis:

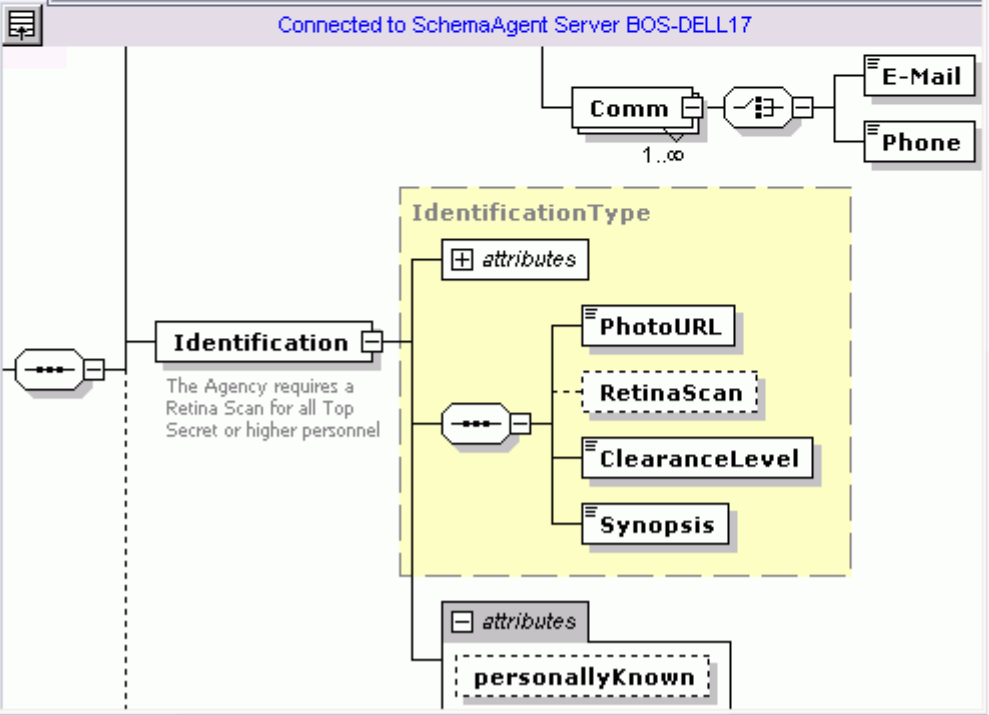
**#1 asset; poised in any op behind the information; ad languages and dialects; sk**

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <xsl:stylesheet version="2.0"
3   xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
4   xmlns:xs="http://www.w3.org/2001/XMLSchema"
5   xmlns:nl="http://xmlspy.net/agency/schemas/pers
    
```

```

1 <agent>
2 {
3   let $a := doc("AllAgents.xml")//agent
4   for $last in distinct-values($a/last),
5     $first in distinct-values($a[last=$last]/first)
6   order by $last, $first
7   return
8     <result>
    
```



XQuery Keywords

- ancestor
- ancestor-or-self
- and
- as
- ascending
- at
- attribute
- base-uri
- by
- case
- cast
- castable
- child
- collation
- comment
- construction
- declare
- default
- descendant
- descendant-or-self

XQuery Variables

- a
- b
- ba
- first
- last

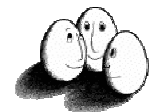
XQuery Functions

- abs
- add-dayTimeD...
- add-dayTimeD...
- add-dayTimeD...
- add-dayTimeD...
- add-yearMontl...
- add-yearMontl...
- add-yearMontl...



# XMLSpy Feature

- XML-Editierung & Validierung
- DTD- & Schema-Bearbeitung
- XSL/XSLT-Bearbeitung
- XSLT Debugger
- XSLT Profiler
- XQuery-Bearbeitung
- XQuery Debugger
- XQuery Profiler
- XML-Vergleich
- .....





# XMLwriter

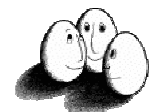
- Hersteller: Wattle Software
- Homepage: <http://www.xmlwriter.net/>
- Aktuelle Version: v2.7





# XML Writer Feature

- unterstützt CSS , DTD , HTML , XML, und XSL
- stellt drei unterschiedliche Ansichten zur Verfügung: Quellcode-, Baum- und ein integriertes Vorschaufenster
- erlaubt die Formatierung von XML-Code mit Cascading- und Extensible-Stylesheets.
- Für die interne Browser-Vorschau nutzt XMLWriter die Rendering Engine des Internet Explorer und den MSXML Parser für Validierung und XSL-Transformation.



The screenshot displays the XMLwriter 2.0 application interface. The main workspace on the left shows a project named 'Examples.xwp' with a tree view of files including 'Library Example', 'DTD/Schema Files', 'Stylesheets', and 'XML Files'. The central preview window shows the XSLT code for 'Library.xslt', which includes namespace declarations and a root template. The bottom section contains an 'Error Message' table and a 'Tool View' showing the rendered output of the XSLT transformation.

**Workspace File Tree:**

- Examples.xwp
  - Library Example
    - DTD/Schema Files
      - Library.dtd
      - Library.xsd
    - Stylesheets
      - Library.xslt
      - Library.css
    - XML Files
      - LibraryCss.xml
      - LibraryDtd.xml
      - LibrarySchema.xml
      - LibraryXslt.xml
  - Passport Example
    - DTD/Schema Files
    - Stylesheets
    - XML Files

**Preview - XML Editor, XMLwriter for Windows, download a free trial**

Wattle Software

Library.xslt

```

1 <?xml version="1.0"?>
2
3 <!--See LibraryXslt.xml for details on how to use this XSLT stylesheet.-->
4
5 <!--XSL Stylesheet declaration.
6 'xmlns:xsl="http://www.w3.org/1999/XSL/Transform"' indicates that
7 namespace prefix 'xsl:' belong to the http://www.w3.org/1999/XSL/
8 'version="1.0"' indicates the current version of the XSLT W3C specification.
9
10 <xsl:stylesheet
11     xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
12     version="1.0">
13
14 <!--The root template specifies the root node of the output document.
15
16 <!--Build the output document, in this case a HTML page.-->
17 <html>
18   <head>

```

**Author(s):** Richard C Dorf

**Call No:** 005.133/C

**Error Message Table:**

| Error Message  | Line | Char | File Validated               |
|--|------|------|------------------------------|
| ✓ Document is well-formed XML. No Schema/DTD declaration...  |      |      | C:\Program Files\Wattle S... |
| ✓ Document is a well-formed DTD.                             |      |      | C:\Program Files\Wattle S... |
| ✗ A name was started with an invalid character.              | 16   | 1    | C:\Program Files\Wattle S... |
| ✓ Document is well-formed XML. No Schema/DTD declaration...  |      |      | C:\Program Files\Wattle S... |
| ✓ Document is well-formed XML. No Schema/DTD declaration...  |      |      | C:\Program Files\Wattle S... |
| ✓ Document is well-formed XML and valid according to the ... |      |      | C:\Program Files\Wattle S... |
| ✓ Document is well-formed XML and valid according to the ... |      |      | C:\Program Files\Wattle S... |

**Tool View:**

```

Library.xslt(20): (which is a child elemen
Library.xslt(21): <title><xsl:value-of select="/
Library.xslt(25): (which is a child elemen
Library.xslt(26): <h1><xsl:value-of select="/lib
Library.xslt(31): <!--Process the 'b
Library.xslt(33): <xsl:apply-templat
Library.xslt(37): <!--Process the 'j
Library.xslt(39): <xsl:apply-templat
Library.xslt(43): <!--Process the 'v
Library.xslt(45): <xsl:apply-templat

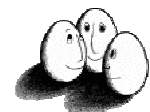
```

Ln 5, Char 21    DOS    NUM



# XML Einführungsbuch

- **XML Tutorial von W3 schools**  
<http://www.w3schools.com/xml/>





# Learning XML

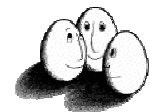
**Autor:** [Erik T. Ray](#)

**Verlag:** O'Reilly Media; **Auflage:** 2. A. 2003 (31. Oktober 2003)

**Sprache:** Englisch

**Topics covered:**

- XML overview
- XPointer
- XLink
- XHTML
- Presentation with Cascading Style Sheets (CSS)
- Document Type Definitions (DTDs)
- XML Schemas
- Transformation with XSLT
- Internationalization
- Simple API for XML (SAX)







*Creating Self-Describing Data*

*Learning*

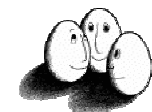


O'REILLY\*

*Erik T. Ray*



Lehrstuhl für künstliche  
Intelligenz





Vielen Dank für eure Aufmerksamkeit.

