

# XML Documents in ILIAS

International Ilias Conference, 08.09.2002

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# Contents

- Ease of Use
- Flexibility
- Reuse of Texts
- Handling Images
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- Summary

# Ease of Use . . .

<b>Titel</b>	- KEIN TITEL [1109] -	<b>Autoren</b>	Stephan Wiesner	<b>Erstellungsdatum</b>	2002-0
<b>VRI</b>	271 ell 1109	<b>Mitwirkende</b>	Stephan Wiesner	<b>Letzte Änderung</b>	2002-0
<b>Sprache</b>	Deutsch	<b>Schlagworte</b>	Keine		

Ausrichtung:  links  rechts  zentriert  
 bildumfließend, linksbündig  bildumfließend, rechtsbündig

Formatierung:  Zitat  Merksatz

Liste:  Hitliste  numerisch  alphabetisch  römisch

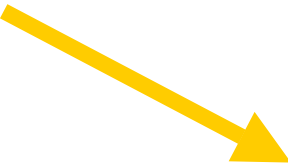
Kennzeichnung:  als Beispiel

Hi Stephan,  
can you see how easy this is?

**VRI Listen**  
[Gliederungsseiten](#)  
[Freie Seiten](#)  
[Freie Seiten \(FAQ-Frame\)](#)  
[Glossar](#)  
[Multimedia \(inline\)](#)  
(nur Typ Image)  
[Multimedia \(Mediaframe\)](#)  
[Multimedia \(FAQ-Frame\)](#)

Eingabebox Breite 60 Höhe 20 Setz

Speichern Zurück zur Seite Metadaten ändern



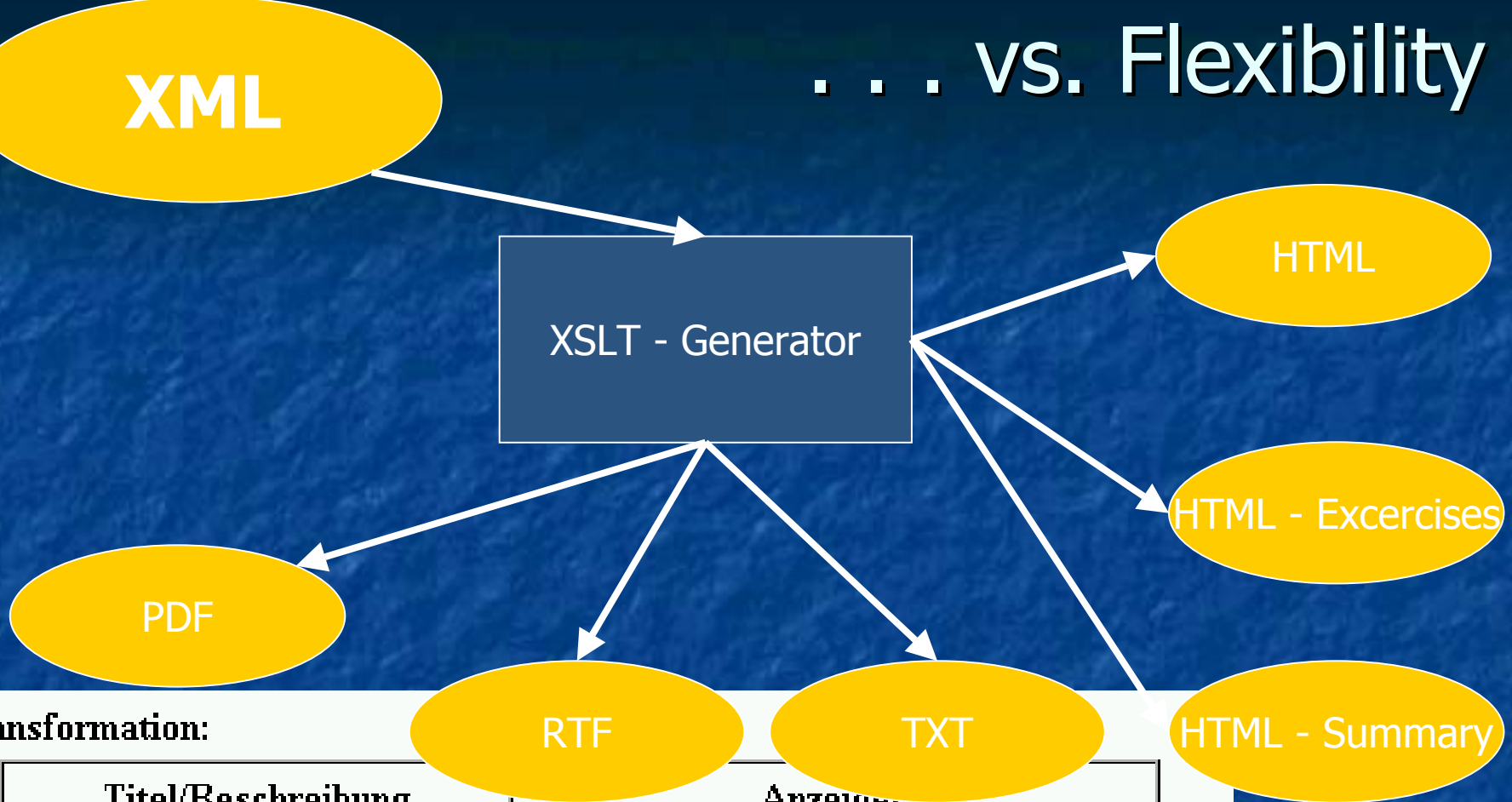
[ Vorschau ]

TestTitel

**Stephans Test (Preview)**

Hi Stephan, can you see how easy this is?

# ... vs. Flexibility



Transformation:

Titel/Beschreibung	Anzeigen	
<b>Struts Tutorial:</b> This is a tutorial for the Struts framework. It consists of a small application which is developed step by step. Books can be displayed in the browser, new books can be created and their state saved/loaded	<input type="text" value="PDF-Format"/> <input type="button" value="▼"/> <input type="text" value="Komplett"/> <input type="button" value="▼"/> Komplett ohne Annotationen Zusammenfassung Übungen	<input type="button" value="aufbereiten"/>



# One content, X outputs

The image shows a screenshot of the Adobe Acrobat software interface. The window title is "Adobe Acrobat - [out.pdf]". The menu bar includes "File", "Edit", "Document", "Tools", "View", "Window", and "Help". The toolbar contains various icons for file operations, navigation, and editing. On the left side, there is a sidebar with "Bookmarks", "Thumbnails", "Comments", and "Signatures" sections. The "Bookmarks" section is expanded, showing a list of three items: "1. Extending X...", "2. Usefull Entit...", and "3. About the A...". The main content area displays the title page of a document. The title "Advanced XML Topics" is centered in a large, white, italicized font within a blue rectangular box. Below the title, the text reads: "Version: 0.2", "Most Entites are included", "Published: 20. 08. 2002", and "Authors" in a blue, italicized font. The author's name "Stephan Wiesner" is followed by a blue hyperlink "stephan@stephanwiesner.de". A paragraph of text follows, stating: "This is a collection of advanced topics I encountered while working with XML. I wrote them down to have them collected in one space. That you, the interested reader, can read them too, is just an add on :-). You are welcome to correct any mistakes you encounter or to write me about your own experiences and tips. This is not an introduction into XML! It is assumed that you are already familiar with XML, XSLT and Java." The status bar at the bottom shows "1 of 17", "209,9 x 297 mm", and navigation icons.

Adobe Acrobat - [out.pdf]

File Edit Document Tools View Window Help

100%

Bookmarks

- 1. Extending X...
- 2. Usefull Entit...
- 3. About the A...

## Advanced XML Topics

Version: 0.2  
Most Entites are included

Published: 20. 08. 2002

### Authors

Stephan Wiesner - [stephan@stephanwiesner.de](mailto:stephan@stephanwiesner.de)

This is a collection of advanced topics I encountered while working with XML. I wrote them down to have them collected in one space. That you, the interested reader, can read them too, is just an add on :-). You are welcome to correct any mistakes you encounter or to write me about your own experiences and tips. This is not an introduction into XML! It is assumed that you are already familiar with XML, XSLT and Java.

1 of 17 209,9 x 297 mm

# One content, X outputs



The screenshot shows a web browser window with the address bar containing the file path 'C:\projekte\awr\muster\AdvancedXML.xml'. The page content includes a red header with the title 'Advanced XML Topics', followed by the text 'Version: 0.2', 'Most Entites are included', 'Published: 20.08.2002', and 'Authors:' with a bulleted list containing 'Stephan Wiesner ([stephan@stephanwiesner.de](mailto:stephan@stephanwiesner.de))'. Below this is an 'Abstract' section with a paragraph of text.

Adresse  C:\projekte\awr\muster\AdvancedXML.xml   Wechseln zu

## Advanced XML Topics

**Version: 0.2**

Most Entites are included

**Published:** 20.08.2002

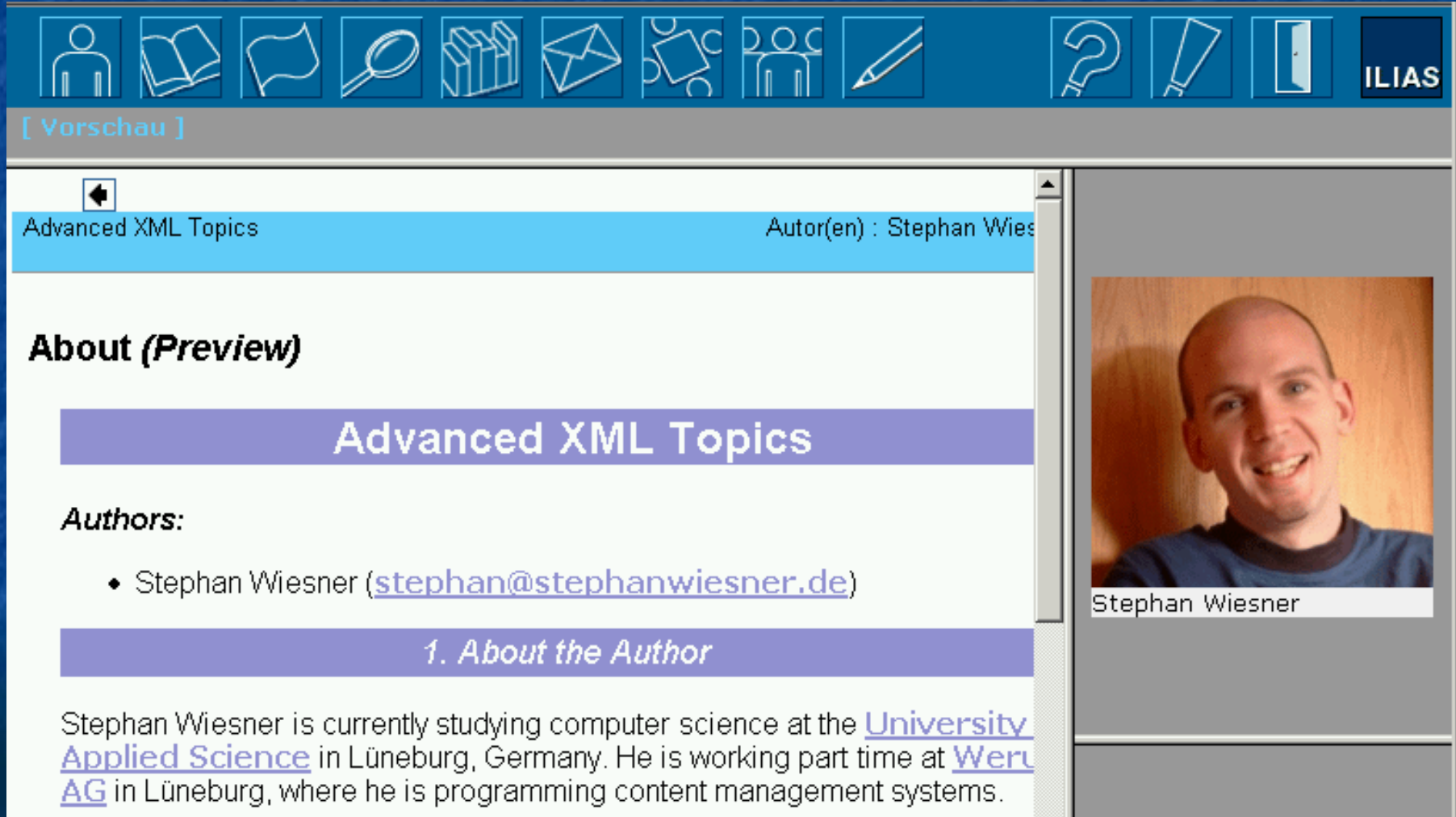
**Authors:**

- Stephan Wiesner ([stephan@stephanwiesner.de](mailto:stephan@stephanwiesner.de))

### Abstract

*This is a collection of advanced topics I encountered while working with XML. I wrote them have them collected in one space. That you, the interested reader, can read them too, add on :) You are welcome to correct any mistakes you encounter or to write me about*

# One content, X outputs



The screenshot displays the ILIAS user interface. At the top, a blue navigation bar contains various icons for user management, document handling, search, and navigation, along with the ILIAS logo. Below this is a grey bar with the text "[ Vorschau ]". The main content area is divided into two panes. The left pane shows a document titled "Advanced XML Topics" by "Stephan Wiesner". It features a purple header with the title, an "Authors:" section listing "Stephan Wiesner" with a contact email, and a section titled "1. About the Author" with a paragraph of text. The right pane shows a portrait of Stephan Wiesner with his name below it.

[ Vorschau ]

Advanced XML Topics Autor(en) : Stephan Wiesner

**About (Preview)**

**Advanced XML Topics**

**Authors:**

- Stephan Wiesner ([stephan@stephanwiesner.de](mailto:stephan@stephanwiesner.de))

**1. About the Author**

Stephan Wiesner is currently studying computer science at the [University Applied Science](#) in Lüneburg, Germany. He is working part time at [Weru AG](#) in Lüneburg, where he is programming content management systems.

Stephan Wiesner

# Images Online and Offline

Adresse  <http://rzserv2.fhnon.de/~lg002556/awr/xmlImg.php?user=Apollon>

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no" ?>
```

```
<!DOCTYPE defines (View Source for full doctype...)>
```

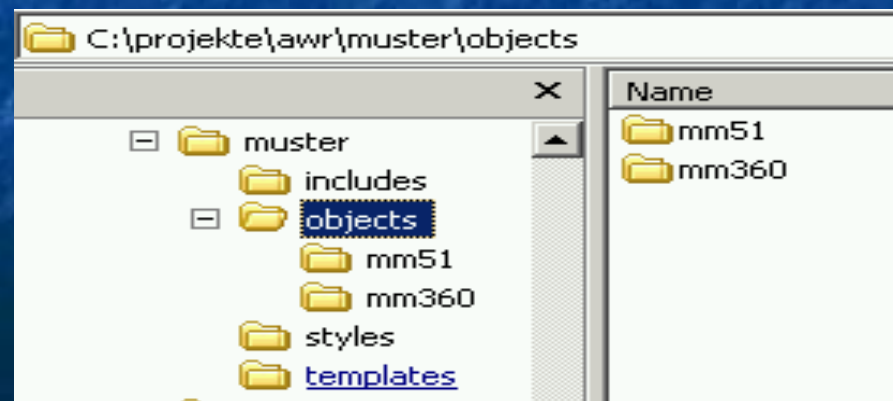
```
- <p>
```

```
  <graphic id="pic_32" source="objects/mm32/luchs.gif" alt="Kitty" />
```

```
  <graphic id="pic_31" source="objects/mm31/babyziege2.png"
    alt="Baby" />
```

```
  <graphic id="pic_30" source="objects/mm30/Weihnachtslight.jpg"
    alt="Weihnachten" />
```

```
  <graphic id="pic_49" source="objects/mm49/image002.gif"
    alt="Informationen" />
```





# Handling the Glossary

Adresse  http://rzserv2.fhnon.de/~lg002556/awr/xmlGloss.php?user=Apollon

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no" ?>
<!DOCTYPE defines (View Source for full doctype...)>
```

```
- <defines>
```

```
+ <define id="pg199">
```

```
- <define id="pg200">
```

```
  <abbr>XML</abbr>
```

```
  <exp>Extensible Markup Language</exp>
```

```
</define>
```

```
- <define id="pg201">
```

```
  <abbr>Java</abbr>
```

```
  <exp>Objektorientierte Programmiersprache, von Sun Microsystems
  entwickelt.</exp>
```

```
</define>
```

```
- <define id="pg330">
```

```
  <abbr>Binärer Zeichenvorrat</abbr>
```

```
  <exp>Ein Zeichen
```

```
  Zeichen eine
```

```
</define>
```

```
- <define id="pg331">
```

```
  <abbr>IEEE</abbr>
```

```
  <exp>Institute
```

```
</define>
```

```
- <define id="pg332">
```

```
  <abbr>Word</abbr>
```

```
  <exp>16 Bit en
```

```
</define>
```

```
</defines>
```

LIVE document - page 17

**PDF**

## Definitions

XSLT = Extensible Style Sheet Language Wird benutzt um XML Dateien in ein formatiertes Zielformat zu wandeln. Das Ziel kann wiederum XML sein, muss es aber nicht. Eine XSLT Seite ist selbst immer auch gültiges XML.

1. [XSLT](#)

# Disadvantages using XML

- Author has to adapt his way of working
  - he feels insecure
- Spelling correction of MS Office
- More work the first time
- Higher flexibility might lead to more complex documents

# Advantages of using XML

- Author can concentrate on content, not style
- Higher flexibility and reuse of texts (about the author)
- No limit on file size (except Memory, 600 pages  $\approx$  1 MB)
- Different styles can generate different content
- Portability

# Cristal Ball

- XML Import / Export of the Ilias
- ‚Skins‘ for Documents
- LIVEDoc vs. DocBook
- MathML
- SVG