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XML Spec 2.0 Stylesheet

This section presents an XSL stylesheet designed to transform W3C documents conformant to W3C XML Specification DTD into XSL Formatting Objects (W3C Recommendation of October 15, 2001). This same stylesheet was used to produce the official PDF version of the XSL Recommendation itself. This page shows results of its application to other W3C documents - XML Specification (Second Edition), XPath, XSLT, and XLink W3C Recommendations. For all of these, we present XSL FO files produced by the stylesheet and PDF files resulted from rendering them by XEP.

After some localization, the stylesheet can be used to format translations of W3C documents as well. Below, we present a Japanese localization of the stylesheet and its application to the Japanese translation of XML Specification by Murata Makoto.

The Stylesheet

Here is the stylesheet: xmlspec20.xsl. To the best of our knowledge, it covers the majority of elements/constructs found in the DTD, with one important exception: IDL-related markup from DOM Spec is omitted, as it is left undocumented in the DTD description.

We have tried to build a style for **real** documents, rather than for an abstract DTD. Therefore, the style also comprises elements specific to certain documents (e.g. element syntax descriptors in XSLT Specification, change markers in XML 2nd edition, etc). Moreover, in cases where real usage of an element in documents contradicted the formatting intent as specified in the XMLSpec DTD docs, we have privileged the real-life usage (see e.g. treatment of <slist> elements).

Not all the features of XSL FO required by this stylesheet are currently supported by XEP, so rendering results may be not quite perfect. Most salient problem is lacked support for automatic table layout - table column widths are often badly balanced.

Adjustable parameters

The stylesheet has five global parameters:

title-color

Specifies the color to be used for all headers and the left sidebar.

attr-color

Specifies the color to be used for all hyperlinks.

lhs-width

rhs-width

Control the width of the left-hand and right-hand columns in BNF productions, respectively (see the description of scrap element in the XMLSpec DTD docs). These parameters are used to tweak single documents individually.

gif-replacement

Extension to replace ".gif" in image names. Sometimes, it is preferrable to use images in different format than specified in the XML source; for example, the official PDF version of the XSL Rec was produced using TIFF graphics instead of GIFs referenced from the XML source. This parameter sets a new file extension for images.

The stylesheet has been optimized for use with XEP; please refer to the XEP Documentation for implementation details.

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Note: We have made all possible efforts to make the proposed stylesheet produce nice and correct files. However, RenderX gives no guarantee about the integrity of the transformation and rendering results. All documents except for the original XML sources cannot be considered as exactly reproducing the correspondent W3C normatives; RenderX

assumes no liability for eventual alterations/omissions in the text due to errors in the stylesheet or formatter. Use at your own risk.

Results

The stylesheet has been tested on four W3C documents. Relative XML sources are publicly available from the W3C site. No changes were made to the XML sources.

Source: XML Specification, 2nd Edition

Parameters: lhs-width="1in" rhs-width="3.25in"

FO: xml2e.fo, PDF: xml2e.pdf

Source: XPath Recommendation

Parameters: lhs-width="2in" rhs-width="3.5in"

FO: xpath.fo, PDF: xpath.pdf

Source: XSLT Recommendation

Parameters: lhs-width="1.75in" rhs-width="3.75in"

FO: xslt.fo, PDF: xslt.pdf

Source: XLink Recommendation

Parameters: lhs-width="1in" rhs-width="3.25in"

FO: xlink.fo, PDF: xlink.pdf

Japanese version of the stylesheet

The localized Japanese version of the stylesheet [jaxmlspec20.xsl] differs only in fonts and text strings. To view the resulting PDF, you will need either a Japanese version of Acrobat Reader or a Japanese font pack for Acrobat, downloadable from Adobe site.

Here are the results of its application to the Japanese translation of the XML Specification. Thanks to Murata Makoto who kindly permitted using his translation of the Recommendation!

Source: XML Recommendation - Japanese

Parameters: lhs-width="1in" rhs-width="3.25in"

FO: jaxml.fo, PDF: jaxml.pdf