Abstract

RDFa Core 1.1 (RDFA-CORE[p.61]) defines attributes and syntax for embedding semantic markup in Host Languages. This document defines one such Host Language. This language is a superset of XHTML 1.1 (XHTML11-2e[p.61]), integrating the attributes as defined in RDFa Core 1.1. This document is intended for authors who want to create XHTML Family documents that embed rich semantic markup.

Status of This Document

This section describes the status of this document at the time of its publication. Other documents may supersede this document. A list of current W3C publications and the latest revision of this technical report can be found in the W3C technical reports index at http://www.w3.org/TR/.
This document has been reviewed by W3C Members, by software developers, and by other
W3C groups and interested parties, and is endorsed by the Director as a W3C
Recommendation. It is a stable document and may be used as reference material or cited from
another document. W3C’s role in making the Recommendation is to draw attention to the
specification and to promote its widespread deployment. This enhances the functionality and
interoperability of the Web.

This Proposed Edited Recommendation represents minor editorial changes and changes to
references. No other changes were made. W3C Advisory Committee Members are invited to
send formal review comments on this Proposed Edited Recommendation to the W3C Team until
23 July 2013. Members of the W3C Advisory Committee will find the appropriate review form for
this document by consulting their list of current WBS questionnaires.

This is a revision of Sections 8 and 9 and Appendix A of RDFa Syntax 1.0 [RDFA-SYNTAX
[p.61]]. This document supersedes those sections of the previous Recommendation. There are
a number of substantive differences between this version and its predecessor, including:

1. Inheritance of basic processing rules from [RDFA-CORE [p.61]].
2. The inclusion of an implementation of the markup language using XML Schema.
3. The addition of @lang to be consistent with recent changes in [XHTML11-2e [p.61]].
4. Removal of the collection of TERMS from this document - instead deferring the definitions in
an RDFa Initial Context document.

A sample test harness is available. This set of tests is not intended to be exhaustive. Users may
find the tests to be useful examples of RDFa usage.

The implementation report used by the director to transition to Recommendation has been made
available. There have been no formal objections to the publication of this document.

This document was published by the RDF Web Applications Working Group as a Proposed
Edited Recommendation. This document is intended to become a W3C Recommendation. If you
wish to make comments regarding this document, please send them to public-rdfa@w3.org
(subscribe, archives). All comments are welcome.

Publication as a Proposed Edited Recommendation does not imply endorsement by the W3C
Membership. This is a draft document and may be updated, replaced or obsoleted by other
documents at any time. It is inappropriate to cite this document as other than work in progress.

This document was produced by a group operating under the 5 February 2004 W3C Patent
Policy. W3C maintains a public list of any patent disclosures made in connection with the
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Claim(s) must disclose the information in accordance with section 6 of the W3C Patent Policy.
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1. Introduction

XHTML+RDFa 1.1 is an XHTML Family markup language. It extends the XHTML 1.1 markup language with the attributes defined in RDFa Core 1.1. The document also defines an XHTML Modularization-compatible [XHTML-MODULARIZATION11-2e][p.61] module for the RDFa Core attributes in both XML DTD and XML Schema formats.
2. Conformance

As well as sections marked as non-normative, all authoring guidelines, diagrams, examples, and notes in this specification are non-normative. Everything else in this specification is normative.

The key words MUST, MUST NOT, REQUIRED, SHOULD, SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL in this specification are to be interpreted as described in RFC2119 [p.61].

2.1 Document Conformance

A strictly conforming XHTML+RDFa document is a document that requires only the facilities described as mandatory in this specification. Such a document satisfies the following criteria:

1. The document MUST conform to the constraints expressed in the schemas in Appendix A - XHTML+RDFa XML Schema [p.15] and Appendix B - XHTML+RDFa Document Type Definition [p.37].

2. The local part of the root element of the document MUST be html.

3. The start tag of the root element of the document MUST explicitly contain a default namespace declaration for the XHTML namespace [XML-NAMESTI] [p.61]. The namespace URI for XHTML is defined to be http://www.w3.org/1999/xhtml. The start tag MAY also contain the declaration of the XML Schema Instance Namespace and an XML Schema Instance schemaLocation attribute [XMLSCHEMATI2] [p.61]. Such an attribute would associate the XHTML namespace http://www.w3.org/1999/xhtml with the XML Schema at the URI http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-2.xsd.

4. There MAY be a @version attribute on the html element with the value "XHTML+RDFa 1.1".

Example 1: Example of an XHTML+RDFa 1.1 document

```xml
<?xml version="1.0" encoding="UTF-8"?>
<html xmlns="http://www.w3.org/1999/xhtml"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://www.w3.org/1999/xhtml
                       http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-2.xsd"
     lang="en"
     xml:lang="en">
  <head>
    <title>Virtual Library</title>
  </head>
  <body>
    <p>Moved to <a href="http://example.org/">example.org</a>.</p>
  </body>
</html>
```
Note that in this example, the XML declaration is included. An XML declaration like the one above is not required in all XML documents. XHTML document authors SHOULD use XML declarations in all their documents. XHTML document authors MUST use an XML declaration when the character encoding of the document is other than the default UTF-8 or UTF-16 and no encoding is specified by a higher-level protocol.

XHTML+RDFa documents SHOULD be labeled with the Internet Media Type "application/xhtml+xml" as defined in [RFC3236 [p.61]]. For further information on using media types with XHTML Family markup languages, see the informative note [XHTML-MEDIA-TYPES [p.62]].

2.2 User Agent Conformance

A conforming user agent MUST support all of the features required in this specification. A conforming user agent must also support the User Agent conformance requirements as defined in XHTML Modularization [XHTML-MODULARIZATION11-2e [p.61]] section on "XHTML Family User Agent Conformance".
3. Additional RDFa Processing Rules

Documents conforming to the rules in this specification are processed according to [RDFA-CORE][p.61] with the following extensions:

- The default vocabulary IRI is undefined.
- XHTML+RDFa uses an additional initial context by default, http://www.w3.org/2011/rdfa-context/xhtml-rdfa-1.1, which must be applied after the initial context for [RDFA-CORE][p.61] (http://www.w3.org/2011/rdfa-context/rdfa-1.1).
- The base can be set using the base element as defined in [XHTML-MODULARIZATION][p.61].
- The current language can be set using either the @lang or @xml:lang attributes.
- In section 7.5, processing step 5, if no IRI is provided by a resource attribute (e.g., @about, @href, @resource, or @src), then first check to see if the element is the head or body element. If it is, then act as if the new subject is set to the parent object.
- In section 7.5, processing step 6, if no IRI is provided by a resource attribute (e.g., @about, @href, @resource, or @src), then first check to see if the element is the head or body element. If it is, then act as if the new subject is set to the parent object.

When an XHTML+RDFa document uses @version on the html element, a conforming RDFa Processor MUST examine the value of this attribute. If the value matches that of a defined version of XHTML+RDFa, then the processing rules for that version MUST be used. If the value does not match a defined version, or there is no @version attribute, then the processing rules for the most recent version of XHTML+RDFa must be used.
4. XHTML+RDFa 1.1 Definition

The XHTML+RDFa 1.1 document type is a fully functional document type with rich semantics. It is a superset of [XHTML11-2e][p.61].

The XHTML+RDFa 1.1 document type is made up of the following XHTML modules. The elements, attributes, and content models associated with these modules are defined in "XHTML Modularization" [XHTML-MODULARIZATION11-2e][p.61]. The elements are listed here for information purposes, but the definitions in XHTML Modularization should be considered authoritative.

Structure Module
   body, head, html, title.
Text Module
   abbr, acronym, address, blockquote, br, cite, code, dfn, div, em, h1, h2, h3, h4, h5, h6, kbd, p, pre, q, samp, span, strong, var
Hypertext Module
   a. @href is available on all elements.
List Module
   dl, dt, dd, ol, ul, li
Object Module
   object, param
Presentation Module
   b, big, hr, i, small, sub, sup, tt
Edit Module
   del, ins
Bidirectional Text Module
   bdo
Forms Module
   button, fieldset, form, input, label, legend, select, optgroup, option, textarea
Table Module
   caption, col, colgroup, table, tbody, td, tfoot, th, thead, tr
Image Module
   img
Client-side Image Map Module
   area, map
Server-side Image Map Module
   Attribute ismap on img
Intrinsic Events Module
   Events attributes
Metainformation Module
   meta
Scripting Module
   noscript, script
Stylesheet Module
  style element
Style Attribute Module Deprecated
  @style
Target Module
  @target
Link Module
  link
Base Module
  base
[Metainformation Attributes Module][p.13]
  @about, @content, @datatype, @typeof, @prefix, @property, @rel, @resource, @rev,
  @vocab are available on all elements.
Ruby Annotation Module from [RUBY][p.61]
  ruby, rbc, rtc, rb, rt, rp

This specification also adds the lang attribute to the I18N attribute collection as defined in
[XHTML-MODULARIZATION11-2e][p.61]. The lang attribute is defined in [HTML401][p.61].
When this attribute and the xml:lang attribute are specified on the same element, the
xml:lang attribute takes precedence. When both lang and xml:lang are specified on the
same element, they MUST have the same value.

There are no additional definitions required by this document type. An implementation of this
document type as an XML Schema is defined in [Appendix A][p.15], and as an XML DTD is
defined in [Appendix B][p.37].
5. Metainformation Attributes Module

The Metainformation Attributes Module defines the metainformation attribute collection in the format required by [XHTML-MODULARIZATION11-2e][p.61]. This collection allows elements to be annotated with metadata throughout an XHTML Family document. When this module is included in a markup language, this collection is added to the Common attribute collection as defined in [XHTML-MODULARIZATION11-2e][p.61].

5.1 Metainformation Attributes Collection

The following attributes are included in the attribute collection, and take values in the associated datatype:

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>about</td>
<td></td>
</tr>
<tr>
<td>(SafeCURIEorURI)</td>
<td></td>
</tr>
<tr>
<td>content (CDATA)</td>
<td></td>
</tr>
<tr>
<td>datatype</td>
<td>If not specified, then the default value is string as defined in [XMLSCHEMA11-2][p.61].</td>
</tr>
<tr>
<td>(TERMorURIorAbsIRI)</td>
<td></td>
</tr>
<tr>
<td>prefix( NCName ': ' IRI )+</td>
<td></td>
</tr>
<tr>
<td>property</td>
<td></td>
</tr>
<tr>
<td>(TERMorURIorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>rel (TERMorURIorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>resource</td>
<td></td>
</tr>
<tr>
<td>(SafeCURIEorURI)</td>
<td></td>
</tr>
<tr>
<td>rev (TERMorURIorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>typeof</td>
<td></td>
</tr>
<tr>
<td>(TERMorURIorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>vocab (IRI)</td>
<td>An IRI that defines the prefix to use when a CURIE is specified with no prefix and no colon.</td>
</tr>
</tbody>
</table>

An implementation of this module in XML Schema can be found in [Appendix A][p.15] and in XML DTD in [Appendix B][p.37].
5.2 XHTML RDFa Initial Context

This section is non-normative.

This specification defines an RDFa Initial Context. It is available at http://www.w3.org/2011/rdfa-context/xhtml-rdfa-1.1.
A. XHTML+RDFa XML Schema

This appendix is normative.

This appendix includes an implementation of the XHTML+RDFa 1.1 language using XML Schema. It is implemented by combining the XHTML 1.1 Schema with the XHTML Metainformation Attribute Module. This is done by using a content model module, and then a driver module. There are direct links to the various files for download purposes. Please note that the files targeted by the "latest version" links may change slowly over time. See the W3C XHTML2 Working Group home page for more information.

A.1 XHTML Metainformation Attributes Module

You can download this version of this file from SCHEMA/xhtml-metaAttributes-2.xsd. The latest version is available at http://www.w3.org/MarkUp/SCHEMA/xhtml-metaAttributes-2.xsd.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
   xmlns:xs="http://www.w3.org/2001/XMLSchema"
   xmlns:xh11d="http://www.w3.org/1999/xhtml/datatypes/"
   elementFormDefault="qualified">
   <xs:import namespace="http://www.w3.org/1999/xhtml/datatypes/"
               schemaLocation="xhtml-datatypes-1.xsd" />
   <xs:annotation>
     <xs:documentation>
       This is the XML Schema Metainformation Attributes module for XHTML
     </xs:documentation>
   </xs:annotation>
   <xs:documentation source="xhtml-rdfa-copyright-1.xsd"/>
</xs:annotation>

<xs:attribute name="about" type="xh11d:SafeCURIEorCURIEorIRI"/>
<xs:attribute name="content" type="xh11d:CDATA"/>
<xs:attribute name="datatype" type="xh11d:TERMorCURIEoAbsIRI"/>
<xs:attribute name="inlist" type="xh11d:CDATA"/>
<xs:attribute name="typeof" type="xh11d:TERMorCURIEoAbsIRIs"/>
<xs:attribute name="prefix" type="xh11d:PREFIX"/>
<xs:attribute name="property" type="xh11d:TERMorCURIEoAbsIRIs"/>
<xs:attribute name="rel" type="xh11d:TERMorCURIEoAbsIRIs"/>
<xs:attribute name="resource" type="xh11d:SafeCURIEorCURIEorIRI"/>
<xs:attribute name="rev" type="xh11d:TERMorCURIEoAbsIRIs"/>
<xs:attribute name="vocab" type="xs:anyURI"/>

<xs:attributeGroup name="xhtml.metaAttributes.attrib">
  <xs:attribute name="about"/>
</xs:attributeGroup>
```
A.2 XHTML+RDFa Schema Content Model Module

You can download this version of this file from SCHEMA/xhtml-rdfa-model-2.xsd. The latest version is available at [http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-model-2.xsd].

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:xh11d="http://www.w3.org/1999/xhtml/datatypes/"
  elementFormDefault="qualified">
  <xs:import
    namespace="http://www.w3.org/1999/xhtml/datatypes/"
    schemaLocation="xhtml-datatypes-1.xsd"/>
  <xs:annotation>
    <xs:documentation>
      This is the XML Schema module of common content models for XHTML
    </xs:documentation>
    <xs:documentation source="xhtml-copyright-1.xsd"/>
  </xs:annotation>
  <xs:annotation>
    <xs:documentation>
      XHTML Document Model
      This module describes the groupings of elements/attributes that make up common content models for XHTML elements.
      XHTML has following basic content models:
      xhml.Inline.mix; character-level elements
      xhml.Block.mix; block-like elements, e.g., paragraphs and lists
      xhml.Flow.mix; any block or inline elements
      xhml.HeadOpt.mix; Head Elements
      xhml.InlinePre.mix; Special class for pre content model
      xhml.InlineNoAnchor.mix; Content model for Anchor
      
      Any groups declared in this module may be used to create element content models, but the above are considered ‘global’ (insofar as that term applies here). XHTML has the following Attribute Groups
      xhml.Core.extra.attrib
      xhml.I18n.extra.attrib
      xhml.Common.extra
    </xs:documentation>
  </xs:annotation>
</xs:schema>
The above attribute Groups are considered Global
</xs:documentation>
</xs:annotation>
<xs:include schemaLocation="xhtml-metaAttributes-2.xsd">
<xs:annotation>
<xs:documentation>
XHTML Metainformation Modules
</xs:documentation>
<xs:documentation source="http://www.w3.org/TR/rdfa-syntax"/>
</xs:annotation>
</xs:include>
<xsl:attributeGroup
name="xhtml.I18n.extra.attrib">
<xs:annotation>
<xs:documentation> Extended I18n attribute </xs:documentation>
</xs:annotation>
<xsl:attributeGroup
ref="xhtml.dir.attrib">
<xs:annotation>
<xs:documentation>
"dir" Attribute from Bi Directional Text (bdo) Module
</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
</xs:attributeGroup>
<xsl:attributeGroup
name="xhtml.Common.extra">
<xs:annotation>
<xs:documentation> Extended Common Attributes </xs:documentation>
</xs:annotation>
<xsl:attributeGroup
ref="xhtml.style.attrib">
<xs:annotation>
<xs:documentation>
"style" attribute from Inline Style Module
</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
</xs:attributeGroup>
<xsl:attributeGroup ref="xhtml.Events.attrib">
<xs:annotation>
<xs:documentation>
Attributes from Events Module
</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
<xsl:attributeGroup ref="xhtml.metaAttributes.attrib">
<xs:annotation>
<xs:documentation>
Attributes from Metainformation Module
</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
</xs:attributeGroup>
name="xhtml.Core.extra.attrib">
  <xs:annotation>
    <xs:documentation> Extend Core Attributes </xs:documentation>
  </xs:annotation>
</xs:attributeGroup>
<xs:attributeGroup
  name="xhtml.Global.core.extra.attrib">
  <xs:annotation>
    <xs:documentation> Extended Global Core Attributes </xs:documentation>
  </xs:annotation>
</xs:attributeGroup>
<xs:attributeGroup
  name="xhtml.Global.I18n.extra.attrib">
  <xs:annotation>
    <xs:documentation> Extended Global I18n attributes </xs:documentation>
  </xs:annotation>
</xs:attributeGroup>
<xs:attributeGroup
  name="xhtml.Global.Common.extra">
  <xs:annotation>
    <xs:documentation> Extended Global Common Attributes </xs:documentation>
  </xs:annotation>
</xs:attributeGroup>
<xs:group
  name="xhtml.Head.extra">
  <xs:sequence/>
</xs:group>
<xs:group
  name="xhtml.HeadOpts.mix">
  <xs:choice>
    <xs:element name="script"
      type="xhtml.script.type"/>
    <xs:element name="style"
      type="xhtml.style.type"/>
    <xs:element name="meta"
      type="xhtml.meta.type"/>
    <xs:element name="link"
      type="xhtml.link.type"/>
    <xs:element name="object"
      type="xhtml.object.type"/>
    <xs:group
      ref="xhtml.Head.extra"/>
  </xs:choice>
</xs:group>
<xs:group
  name="xhtml.head.content">
  <xs:sequence>
    <xs:group
      ref="xhtml.HeadOpts.mix"
      minOccurs="0"
      maxOccurs="unbounded"/>
    <xs:choice>
      <xs:sequence>
        <xs:element name="title"
          minOccurs="1"
          maxOccurs="1"
          type="xhtml.title.type"/>
      </xs:sequence>
    </xs:choice>
  </xs:sequence>
</xs:group>
<xs:group ref="xhtml.HeadOpts.mix" minOccurs="0" maxOccurs="unbounded"/>
<xs:sequence minOccurs="0">
  <xs:element name="base" type="xhtml.base.type"/>
</xs:sequence>
</xs:group>

<xs:sequence>
  <xs:element name="base" type="xhtml.base.type" minOccurs="1" maxOccurs="1"/>
</xs:sequence>
</xs:choice>
</xs:group>

<xs:group name="xhtml.Edit.class">
  <xs:choice>
    <xs:element name="ins" type="xhtml.edit.type"/>
    <xs:element name="del" type="xhtml.edit.type"/>
  </xs:choice>
</xs:group>

<xs:group name="xhtml.Script.class">
  <xs:choice>
    <xs:element name="script" type="xhtml.script.type"/>
    <xs:element name="noscript"/>
  </xs:choice>
</xs:group>

/* ins and del are used to denote editing changes */

/* script and noscript are used to contain scripts and alternative content */
These elements are neither block nor inline, and can essentially be used anywhere in the document body.

```xml
<xs:element name="em"
            type="xhtml.em.type"/>
<xs:element name="strong"
            type="xhtml.strong.type"/>
<xs:element name="dfn"
            type="xhtml.dfn.type"/>
<xs:element name="code"
            type="xhtml.code.type"/>
<xs:element name="samp"
            type="xhtml.samp.type"/>
<xs:element name="kbd"
            type="xhtml.kbd.type"/>
<xs:element name="var"
            type="xhtml.var.type"/>
<xs:element name="cite"
            type="xhtml.cite.type"/>
<xs:element name="abbr"
            type="xhtml.abbr.type"/>
<xs:element name="acronym"
            type="xhtml.acronym.type"/>
<xs:element name="q"
            type="xhtml.q.type"/>
```
<xs:element name="button"
type="xhtml.button.type"/>
</xs:choice></xs:group></xs:group>
<xs:group name="xhtml.Inline.extra">
<xs:sequence/>
</xs:group></xs:group>
<xs:group name="xhtml.Ruby.class">
<xs:sequence>
<xs:element name="ruby"
type="xhtml.ruby.type"/>
</xs:sequence></xs:group>
</xs:group>
<!--
Inline.class includes all inline elements, used as a component in mixes-->
<xs:group name="xhtml.Inline.class">
<xs:choice>
<xs:group ref="xhtml.InlStruct.class"/>
<xs:group ref="xhtml.InlPhras.class"/>
<xs:group ref="xhtml.InlPres.class"/>
<xs:group ref="xhtml.I18n.class"/>
<xs:group ref="xhtml.Anchor.class"/>
<xs:group ref="xhtml.InlSpecial.class"/>
<xs:group ref="xhtml.InlForm.class"/>
<xs:group ref="xhtml.Ruby.class"/>
<xs:group ref="xhtml.Inline.extra"/>
</xs:choice></xs:group>
</xs:group>
<!--
InlNoRuby.class includes all inline elements except ruby-->
<xs:group name="xhtml.InlNoRuby.class">
<xs:choice>
<xs:group ref="xhtml.InlStruct.class"/>
<xs:group ref="xhtml.InlPhras.class"/>
<xs:group ref="xhtml.InlPres.class"/>
<xs:group ref="xhtml.I18n.class"/>
<xs:group ref="xhtml.Anchor.class"/>
<xs:group ref="xhtml.InlSpecial.class"/>
<xs:group ref="xhtml.InlForm.class"/>
<xs:group ref="xhtml.Ruby.class"/>
<xs:group ref="xhtml.Inline.extra"/>
</xs:choice></xs:group>
</xs:group>
""
In the HTML 4 DTD, heading and list elements were included in the block group. The Heading.class and List.class groups must now be included explicitly on element declarations where desired.

```xml
<xs:group name="xhtml.Heading.class">
  <xs:choice>
    <xs:element name="h1" type="xhtml.h1.type"/>
    <xs:element name="h2" type="xhtml.h2.type"/>
  </xs:choice>
</xs:group>
```
All Content Elements
Flow.mix includes all text content, block and inline
Note that the "any" element included here allows us
to add data from any other namespace, a necessity
for compound document creation.
Note however that it is not possible to add
to any head level element without further
modification. To add RDF metadata to the head
of a document, modify the structure module.

BlkNoForm.mix includes all non-form block elements,
plus Misc.class

A.2 XHTML+RDFa Schema Content Model Module
A.3 XHTML+RDFa Schema Modules

You can download this version of this file from SCHEMA/xhtml-rdfa-modules-2.xsd. The latest version is available at [http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-modules-2.xsd].

This schema includes all modules for XHTML1.1 Document Type. $Id: Overview.html,v 1.71 2013-06-25 12:53:20 smccarro Exp$
Lists module
Elements defined here:
* dt, dd, dl, ol, ul, li

Structural module
Elements defined here:
* title, head, body, html

Edit module
Elements defined here:
* ins, del

Bidirectional element module
Elements defined here:
* bdo

Presentational module
Elements defined here:
* br, b, big, i, small, sub, sup, tt
<xs:documentation source="http://www.w3.org/TR/xhtml-modularization/abstract_modules.html#s_presentationmodule"/>
</xs:annotation>
</xs:include>
<xs:redens schemaLocation="xhtml-base-1.xsd">
<xs:annotation>
<xs:documentation>
Base module
Elements defined here:
* base
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:redens schemaLocation="xhtml-script-1.xsd">
<xs:annotation>
<xs:documentation>
Elements defined here:
* script, noscript
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:redens schemaLocation="xhtml-style-1.xsd">
<xs:annotation>
<xs:documentation>
 Elements defined here:
* style
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:redens schemaLocation="xhtml-inlstyle-1.xsd">
<xs:annotation>
<xs:documentation>
 Attribute defined here:
* style
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:redens schemaLocation="xhtml-image-1.xsd">
<xs:annotation>
<xs:documentation>
Elements defined here:
* img
</xs:documentation>
</xs:annotation>
</xs:include>
Redefinition by Server Side Image Module

Client-side image maps module

Elements defined here:
  * area, map

Server-side image maps module

Elements defined here:
  * ismap on img

Object module

Elements defined here:
  * object

Param module

Elements defined here:
  * param
A.3 XHTML+RDFa Schema Modules

* table, caption, thead, tfoot, tbody, colgroup, col, tr, th, td

<xsd:documentation source="http://www.w3.org/TR/xhtml-modularization/abstract_modules.html#s_tablemodule"/>
</xsd:annotation>
</xsd:include>

Forms module

Elements defined here:
* form, label, input, select, optgroup, option,
* textarea, fieldset, legend, button

<xsd:documentation source="http://www.w3.org/TR/xhtml-modularization/abstract_modules.html#s_formmodule"/>
</xsd:annotation>
</xsd:include>

<xsd:attributeGroup name="xhtml.form.attlist">
  <xsd:annotation>
    Changes to XHTML Form Attlist
  </xsd:annotation>
  <xsd:attributeGroup ref="xhtml.form.attlist">
    <xsd:annotation>
      Original Form Attributes (declared in Forms Module)
    </xsd:annotation>
    <xsd:attributeGroup ref="xhtml.form.events.attlist">
      <xsd:annotation>
        XHTML Events Module - Attribute additions
      </xsd:annotation>
      <xsd:attributeGroup ref="xhtml.form.target.attlist">
        <xsd:annotation>
          XHTML Target Module - Attribute additions
        </xsd:annotation>
        <xsd:attributeGroup name="xhtml.input.attlist">
          <xsd:annotation>
            Changes to XHTML Form Input Element
          </xsd:annotation>
          <xsd:attributeGroup ref="xhtml.input.attlist">
            <xsd:annotation>
              Original Input Attributes (in Forms Module)
            </xsd:annotation>
            <xsd:attributeGroup ref="xhtml.input.csim.attlist">
              <xsd:annotation>
                Redefinition by Client Side Image Map Module
              </xsd:annotation>
              <xsd:attributeGroup ref="xhtml.input.ssimap.attlist">
                <xsd:annotation>
                  Redefinition by Server Side Image Map Module
                </xsd:annotation>
              </xsd:attributeGroup>
            </xsd:attributeGroup>
          </xsd:attributeGroup>
          <xsd:attributeGroup name="xhtml.label.attlist">
            <xsd:annotation>
              Redefinition by Event Attribute Module
            </xsd:annotation>
            <xsd:attributeGroup ref="xhtml.label.attlist">
              <xsd:annotation>
                Original Label Attributes (in Forms Module)
              </xsd:annotation>
              <xsd:attributeGroup ref="xhtml.label.events.attlist">
                <xsd:annotation>
                  Redefinition by Event Attribute Module
                </xsd:annotation>
              </xsd:attributeGroup>
            </xsd:attributeGroup>
          </xsd:attributeGroup>
        </xsd:attributeGroup>
      </xsd:attributeGroup>
    </xsd:attributeGroup>
  </xsd:attributeGroup>
</xsd:attributeGroup>
A.3 XHTML+RDFa Schema Modules

<xs:attributeGroup name="xhtml.select.attlist">
  <xs:attributeGroup ref="xhtml.select.attlist">
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.select.events.attlist">
  <xs:attributeGroup ref="xhtml.select.events.attlist">
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.textarea.attlist">
  <xs:attributeGroup ref="xhtml.textarea.attlist">
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.textarea.events.attlist">
  <xs:attributeGroup ref="xhtml.textarea.events.attlist">
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.button.attlist">
  <xs:attributeGroup ref="xhtml.button.attlist">
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.button.events.attlist">
  <xs:attributeGroup ref="xhtml.button.events.attlist">
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:include schemaLocation="xhtml-ruby-basic-1.xsd">
  <xs:annotation>
    <xs:documentation>
      Ruby module
    </xs:documentation>
  </xs:annotation>
</xs:include>

<xs:include schemaLocation="xhtml-events-1.xsd">
  <xs:annotation>
    <xs:documentation>
      XHTML Events Modules
    </xs:documentation>
  </xs:annotation>
</xs:include>

<xs:include schemaLocation="xhtml-metaAttributes-1.xsd">
  <xs:annotation>
    <xs:documentation>
      XHTML Metainformation Modules
    </xs:documentation>
  </xs:annotation>
</xs:include>

<xs:include schemaLocation="xhtml-target-1.xsd">
  <xs:annotation>
    <xs:documentation>
      XHTML Target Attribute Module
    </xs:documentation>
  </xs:annotation>
</xs:include>

Ruby module

Elements defined here:
* ruby, rbc, rtc, rb, rt, rp

Note that either Ruby or Basic Ruby should be used but not both

XHTML Events Modules

Attributes defined here:
* XHTML Event Types

XHTML Metainformation Modules

Attributes defined here:
* XHTML RDFa attributes

XHTML Target Attribute Module

Attributes defined here:
* target
A.4 XHTML+RDFa XML Schema Driver Module

You can download this version of this file from SCHEMA/xhtml-rdfa-2.xsd. The latest version is available at [http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-2.xsd](http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-2.xsd).
B. XHTML+RDFa Document Type Definition

This appendix includes an implementation of the XHTML+RDFa 1.1 language as an XML DTD. It is implemented by combining the XHTML 1.1 DTD with the XHTML Metainformation Attribute Module. This is done by using a content model module, and then a driver module. There are direct links to the various files for download purposes. Please note that the files targeted by the "latest version" links may change slowly over time. See the W3C XHTML2 Working Group home page for more information.

B.1 XHTML Metainformation Attributes Module

You can download this version of this file from DTD/xhtml-metaAttributes-2.mod. The latest version is available at [http://www.w3.org/MarkUp/DTD/xhtml-metaAttributes-2.mod](http://www.w3.org/MarkUp/DTD/xhtml-metaAttributes-2.mod).

```xml
<!-- Placeholder Compact URI-related types -->
<!ENTITY % CURIE.datatype "CDATA" >
<!ENTITY % CURIEs.datatype "CDATA" >
<!ENTITY % CURIEorIRI.datatype "CDATA" >
<!ENTITY % CURIEorIRIs.datatype "CDATA" >
<!ENTITY % IRI.datatype "CDATA" >
<!ENTITY % IRIs.datatype "CDATA" >
<!ENTITY % PREFIX.datatype "CDATA" >
<!ENTITY % SafeCURIEorCURIEorIRI.datatype "CDATA" >
<!ENTITY % SafeCURIEorCURIEorIRIs.datatype "CDATA" >
<!ENTITY % TERMorCURIEorAbsIRI.datatype "CDATA" >
<!ENTITY % TERMorCURIEorAbsIRIs.datatype "CDATA" >

<!-- Common Attributes -->
This module declares a collection of meta-information related attributes.

%NS.decl.attrib; is declared in the XHTML Qname module.

This file also includes declarations of "global" versions of the attributes. The global versions of the attributes are for use on
elements in other namespaces.

-->

<!ENTITY % about.attrib
   "about %SafeCURIEorCURIEorIRI.datatype; #IMPLIED"
>

<![XHTML.global.attrs.prefixed;[
 <!ENTITY % XHTML.global.about.attrib
   "%XHTML.prefix;:about %SafeCURIEorCURIEorIRI.datatype; #IMPLIED"
>
]]>

<!ENTITY % typeof.attrib
   "typeof %TERMorCURIEorAbsIRIs.datatype; #IMPLIED"
>

<![XHTML.global.attrs.prefixed;[
 <!ENTITY % XHTML.global.typeof.attrib
   "%XHTML.prefix;:typeof %TERMorCURIEorAbsIRIs.datatype; #IMPLIED"
>
]]>

<!ENTITY % property.attrib
   "property %TERMorCURIEorAbsIRIs.datatype; #IMPLIED"
>

<![XHTML.global.attrs.prefixed;[
 <!ENTITY % XHTML.global.property.attrib
   "%XHTML.prefix;:property %TERMorCURIEorAbsIRIs.datatype; #IMPLIED"
>
]]>

<!ENTITY % resource.attrib
   "resource %SafeCURIEorCURIEorIRI.datatype; #IMPLIED"
>

<![XHTML.global.attrs.prefixed;[
 <!ENTITY % XHTML.global.resource.attrib
   "%XHTML.prefix;:resource %SafeCURIEorCURIEorIRI.datatype; #IMPLIED"
>
]]>

<!ENTITY % content.attrib
   "content CDATA #IMPLIED"
>

<![XHTML.global.attrs.prefixed;[
 <!ENTITY % XHTML.global.content.attrib
   "%XHTML.prefix;:content CDATA #IMPLIED"
>
]]>

<!ENTITY % datatype.attrib
   "datatype %TERMorCURIEorAbsIRI.datatype; #IMPLIED"
>

<![XHTML.global.attrs.prefixed;[
 <!ENTITY % XHTML.global.datatype.attrib
   "%XHTML.prefix;:datatype %TERMorCURIEorAbsIRI.datatype; #IMPLIED"
>
]]>
B.2 XHTML+RDFa Content Model Module

You can download this version of this file from DTD/xhtml-rdfa-model-2.mod. The latest version is available at [http://www.w3.org/MarkUp/DTD/xhtml-rdfa-model-2.mod](http://www.w3.org/MarkUp/DTD/xhtml-rdfa-model-2.mod)

<!-- XHMTL+RDFa Document Model Module .......................... -->
<!-- file: xhtml-rdfa-model-2.mod

This is XHTML+RDFa.
Copyright 1998-2010 W3C (MIT, ERCIM, Keio), All Rights Reserved.

This DTD module is identified by the PUBLIC and SYSTEM identifiers:

PUBLIC "-//W3C//ENTITIES XHTML+RDFa Document Model 1.1//EN"
SYSTEM "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-model-2.mod"

Revisions:
(none)

.......................... -->

<!-- XHMTL+RDFa Document Model
This module describes the groupings of elements that make up common content models for XHTML elements.

XHTML has three basic content models:

- %Inline.mix; character-level elements
- %Block.mix; block-like elements, eg., paragraphs and lists
- %Flow.mix; any block or inline elements

Any parameter entities declared in this module may be used to create element content models, but the above three are considered ‘global’ (insofar as that term applies here).

The reserved word ’#PCDATA’ (indicating a text string) is now included explicitly with each element declaration that is declared as mixed content, as XML requires that this token occur first in a content model specification.

--> Extending the Model

While in some cases this module may need to be rewritten to accommodate changes to the document model, minor extensions may be accomplished by redeclaring any of the three *.extra; parameter entities to contain extension element types as follows:

- %Misc.extra; whose parent may be any block or inline element.
- %Inline.extra; whose parent may be any inline element.
- %Block.extra; whose parent may be any block element.

If used, these parameter entities must be an OR-separated list beginning with an OR separator ("|"), eg., "| a | b | c"

All block and inline *.class parameter entities not part of the *struct.class classes begin with "| " to allow for exclusion from mixes.

--> Optional Elements in head

<!ENTITY % HeadOpts.mix
 "( %script.qname; | %style.qname; | %meta.qname;
  | %link.qname; | %object.qname; )*"
>

--> Miscellaneous Elements

<!ENTITY % Edit.class "| %ins.qname; | %del.qname;">

--> script and noscript are used to contain scripts and alternative content
<!ENTITY % Script.class "| %script.qname; | %noscript.qname;" >

<!ENTITY % Misc.extra "" >

<!-- These elements are neither block nor inline, and can essentially be used anywhere in the document body. -->
<!ENTITY % Misc.class "%Edit.class; %Script.class; %Misc.extra;" >

<!-- ........................ Inline Elements ........................ -->
<!ENTITY % InlStruct.class "%br.qname; | %span.qname;" >

<!ENTITY % InlPhras.class "| %em.qname; | %strong.qname; | %dfn.qname; | %code.qname; %samp.qname; | %kbd.qname; | %var.qname; | %cite.qname; %abbr.qname; | %acronym.qname; | %q.qname;" >

<!ENTITY % InlPres.class "| %tt.qname; | %i.qname; | %b.qname; | %big.qname; %small.qname; | %sub.qname; | %sup.qname;" >

<!ENTITY % I18n.class "| %bdo.qname;" >

<!ENTITY % Anchor.class "| %a.qname;" >

<!ENTITY % InlSpecial.class "| %img.qname; | %map.qname; %object.qname;" >

<!ENTITY % InlForm.class "| %input.qname; | %select.qname; | %textarea.qname; %label.qname; | %button.qname;" >

<!ENTITY % Inline.extra "" >

<!ENTITY % Ruby.class "| %ruby.qname;" >

<!-- %Inline.class; includes all inline elements, used as a component in mixes -->
<!ENTITY % Inline.class "%InlStruct.class; %InlPhras.class; %InlPres.class; %I18n.class; %Anchor.class; %InlSpecial.class; %InlForm.class; %Ruby.class; %Inline.extra;" >
<!-- %InlNoRuby.class; includes all inline elements except ruby, used as a component in mixes -->
<!ENTITY % InlNoRuby.class
  "%InlStruct.class;
  %InlPhras.class;
  %InlPres.class;
  %I18n.class;
  %Anchor.class;
  %InlSpecial.class;
  %InlForm.class;
  %Inline.extra;"
>
<!-- %NoRuby.content; includes all inlines except ruby -->
<!ENTITY % NoRuby.content
  "( #PCDATA
    | %InlNoRuby.class;
    %Misc.class; )""
>
<!-- %InlNoAnchor.class; includes all non-anchor inlines, used as a component in mixes -->
<!ENTITY % InlNoAnchor.class
  "%InlStruct.class;
  %InlPhras.class;
  %InlPres.class;
  %I18n.class;
  %InlSpecial.class;
  %InlForm.class;
  %Ruby.class;
  %Inline.extra;"
>
<!-- %InlNoAnchor.mix; includes all non-anchor inlines -->
<!ENTITY % InlNoAnchor.mix
  "%InlNoAnchor.class;
  %Misc.class;"
>
<!-- %Inline.mix; includes all inline elements, including %Misc.class; -->
<!ENTITY % Inline.mix
  "%Inline.class;
  %Misc.class;"
>
<!-- ................. Block Elements ..................... -->

<!-- In the HTML 4.0 DTD, heading and list elements were included in the %block; parameter entity. The %Heading.class; and %List.class; parameter entities must now be included explicitly on element declarations where desired. -->
<!ENTITY % Heading.class "%h1.qname; | %h2.qname; | %h3.qname; |
| %h4.qname; | %h5.qname; | %h6.qname;" >

<!ENTITY % List.class "%ul.qname; | %ol.qname; | %dl.qname;" >

<!ENTITY % Table.class "| %table.qname;" >

<!ENTITY % Form.class "| %form.qname;" >

<!ENTITY % Fieldset.class "| %fieldset.qname;" >

<!ENTITY % BlkStruct.class "%p.qname; | %div.qname;" >

<!ENTITY % BlkPhras.class "| %pre.qname; | %blockquote.qname; | %address.qname;" >

<!ENTITY % BlkPres.class "| %hr.qname;" >

<!ENTITY % BlkSpecial.class "%Table.class; | %Form.class; | %Fieldset.class;" >

<!ENTITY % Block.extra "" >

<!-- %Block.class; includes all block elements, used as an component in mixes -->

<!ENTITY % Block.class "%BlkStruct.class; | %BlkPhras.class; | %BlkPres.class; | %BlkSpecial.class; | %Block.extra;" >

<!-- %Block.mix; includes all block elements plus %Misc.class; -->

<!ENTITY % Block.mix "%Heading.class; | %List.class; | %Block.class; | %Misc.class;" >

<!-- ................. All Content Elements ................. -->

<!-- %Flow.mix; includes all text content, block and inline -->

<!ENTITY % Flow.mix "%Heading.class; | %List.class; | %Block.class;" >
B.3 XHTML+RDFa Driver Module

You can download this version of this file from DTD/xhtml-rdfa-2.dtd. The latest version is available at [http://www.w3.org/MarkUp/DTD/xhtml-rdfa-2.dtd].

This is an example markup language combining XHTML 1.1 and the RDFa modules.

XHTML+RDFa
Copyright 1998-2010 World Wide Web Consortium
(Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

Permission to use, copy, modify and distribute the XHTML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose.

It is provided "as is" without expressed or implied warranty.

This is the driver file for version 1 of the XHTML + RDFa DTD.

Please use this public identifier to identify it:

"-//W3C//DTD XHTML+RDFa 1.1//EN"

Use this URI to identify the default namespace:

"http://www.w3.org/1999/xhtml"

See the Qualified Names module for information on the use of namespace prefixes in the DTD.

Note that XHTML namespace elements are not prefixed by default, but the XHTML namespace prefix is defined as "xhtml" so that other markup languages can extend this one and use the XHTML prefixed global attributes if required.
<!ENTITY % NS.prefixed "IGNORE" >
<!ENTITY % XHTML.prefix "xhtml" >

<!-- Be sure to include prefixed global attributes - we don’t need
them, but languages that extend XHTML 1.1 might. -->
<!ENTITY % XHTML.global.attrs.prefixed "INCLUDE" >

<!-- Reserved for use with the XLink namespace: -->
<!ENTITY % XLINK.xmlns "" >
<!ENTITY % XLINK.xmlns.attrib "" >

<!-- For example, if you are using XHTML 1.1 directly, use the public
identifier in the DOCTYPE declaration, with the namespace declaration
on the document element to identify the default namespace:

  <?xml version="1.0"?>
  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.1//EN"
   "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-2.dtd">
  <html xmlns="http://www.w3.org/1999/xhtml"
   xml:lang="en">
   ...
</html>

Revisions:
(none)

<!-- reserved for future use with document profiles -->
<!ENTITY % XHTML.profile "" >

<!-- ensure XHTML Notations are disabled -->
<!ENTITY % xhtml-notations.module "IGNORE" >

<!-- Bidirectional Text features
  This feature-test entity is used to declare elements
  and attributes used for bidirectional text support. -->
<!ENTITY % XHTML.bidi "INCLUDE" >

<!-- ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::: -->
<!-- Pre-Framework Redeclaration placeholder  ................... -->
<!-- this serves as a location to insert markup declarations
  into the DTD prior to the framework declarations. -->
<!ENTITY % xhtml-prefw-redecl.module "IGNORE" >
<!ENTITY % xhtml-prefw-redecl.mod "" >
<![%xhtml-prefw-redecl.module;[ %xhtml-prefw-redecl.mod;
  <!-- end of xhtml-prefw-redecl.module -->]]>

<!-- we need the datatypes now -->
<!ENTITY % xhtml-datatypes.module "INCLUDE" >
<![%xhtml-datatypes.module;[ %xhtml-datatypes.mod;
B.3 XHTML+RDFa Driver Module

<!-- Server-side Image Map Module ------------------------------- -->
<!ENTITY % xhtml-ssismap.module "INCLUDE" >
<!-- Param Element Module ............................... -->
<!ENTITY % param.attlist "IGNORE" >
<!-- Embedded Object Module ............................. -->
<!ENTITY % xhtml-object.module "INCLUDE" >
<!-- Tables Module ...................................... -->
<!ENTITY % xhtml-table.module "INCLUDE" >
<!-- Forms Module ....................................... -->
<!ENTITY % xhtml-form.module "INCLUDE" >
B.4 SGML Open Catalog Entry for XHTML+RDFa

This section contains the SGML Open Catalog-format definition \[\text{\texttt{SGML-CATALOG}[p.61]}\] of the public identifiers for XHTML+RDFa 1.1.

You can download this version of this file from \texttt{DTD/xhtml-rdfa.cat}. The latest version is available at \texttt{http://www.w3.org/MarkUp/DTD/xhtml-rdfa.cat}. 
See "Entity Management", SGML Open Technical Resolution 9401 for detailed information on supplying and using catalog data. This document is available from OASIS at URL:


SGML declaration associated with XHTML

OVERRIDE YES

SGMLDECL "xml1.dcl"

PUBLIC "-//W3C//DTD XHTML+RDFa 1.1//EN"  "xhtml-rdfa-2.dtd"

PUBLIC "-//W3C//ENTITIES XHTML+RDFa Document Model 1.1//EN"  "xhtml-rdfa-model-2.mod"

PUBLIC "-//W3C//ENTITIES XHTML MetaAttributes 1.1//EN"  "xhtml-metaAttributes-2.mod"

-- End of catalog data

-- End of catalog data

-- End of catalog data
C. Deployment Advice

This section is non-normative.

Documents written using the markup language defined in this specification can be validated using the DTD defined in Appendix B [p.37]. If a document author wants to facilitate such validation, they may include the following declaration at the top of their document:

Example 2

```xml
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.1//EN"
 "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-2.dtd">
```

The XML Namespace document associated with the XHTML Family of markup languages uses the mechanism for transforming XHTML+RDFa documents into RDF as defined by [GRDDL [p.61]]. Authors who want to be certain their documents are transformable by all [GRDDL [p.61]] processors may also include a profile attribute on the head element that includes a reference to the RDFa Initial Context IRI

D. Change History

This section is non-normative.

2010-02-25: First version of the split-out XHTML specialization.
E. Acknowledgments

This section is non-normative.

At the time of publication, the members of the RDF Web Applications Working Group were:

- Stéphane Corlosquet, MIND Center for Interdisciplinary Informatics
- Ivan Herman, W3C
- Gregg Kellogg (Invited Expert)
- Niklas Lindström (Invited Expert)
- Shane McCarron, Applied Testing and Technology, Inc. (Invited Expert)
- Steven Pemberton, Centre for Mathematics and Computer Science (CWI)
- Manu Sporny, Digital Bazaar (Chair, Invited Expert)
F. References

F.1 Normative references

[HTML401]

[RDFa-CORE]

[RFC2119]

[RFC3236]

[RUBY]
Masayasu Ishikawa et al. [Ruby Annotation] 31 May 2001. W3C Recommendation. URL: [http://www.w3.org/TR/ruby]

[XHTML-MODULARIZATION11-2e]

[XHTML11-2e]

[XML-NAMES11]
Andrew Layman et al. [Namespaces in XML 1.1 (Second Edition)] 16 August 2006. W3C Recommendation. URL: [http://www.w3.org/TR/xml-names11]

[XMLSCHEMA11-2]

F.2 Informative references

[GRDDL]
Dan Connolly. [Gleaning Resource Descriptions from Dialects of Languages (GRDDL) September 2007. W3C Recommendation. URL: [http://www.w3.org/TR/grddl]

[RDFa-SYNTAX]

[SGML-CATALOG]