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 Proposed Edited Recommendation reflects minor editorial changes, integration of errata since the last Recommendation, and changes to references. In particular, the @inlist attribute had been mistakenly left out of the list of attributes in sections 4 and 5.1.

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 RDFa 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). W3C Advisory Committee Members are invited to send formal review comments on this Proposed Edited Recommendation to the W3C Team until 01 February 2015. Members of the Advisory Committee will find the appropriate review form for this document by consulting their list of current WBS questionnaires.

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 deliverables of the group; that page also includes instructions for disclosing a patent. An individual who has actual knowledge of a patent which the individual believes contains Essential Claim(s) must disclose the information in accordance with section 6 of the W3C Patent Policy.

This document is governed by the 14 October 2005 W3C Process Document.

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</tr>
</tbody>
</table>
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 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 MAY, MUST, and SHOULD 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-NAME11 [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 [XMLSCHEMAT11-2 [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:xhtml="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-MODULARIZATION11-2e][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, @inlist, @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 [HTML5 [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>(SafeCURIEorCURIEorIRI)</td>
</tr>
<tr>
<td>content (CDATA)</td>
<td></td>
</tr>
<tr>
<td>datatype (TERMorCURIEorAbsIRI)</td>
<td>If not specified, then the default value is string as defined in [XMLSCHEMA11-2][p.61].</td>
</tr>
<tr>
<td>inlist (CDATA)</td>
<td></td>
</tr>
<tr>
<td>prefix (NCName ': ' IRI)+</td>
<td></td>
</tr>
<tr>
<td>property (TERMorCURIEorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>rel (TERMorCURIEorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>resource (SafeCURIEorCURIEorIRI)</td>
<td></td>
</tr>
<tr>
<td>rev (TERMorCURIEorAbsIRIs)</td>
<td></td>
</tr>
<tr>
<td>typeof (TERMorCURIEorAbsIRIs)</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](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:schema>
```

This is the XML Schema Metainformation Attributes module for XHTML.
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"?>
xmlls:xmll1ns="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 XHTML11
  </xs:documentation>
  $Id: Overview.html,v 1.88 2014-12-12 13:59:01 smccarro Exp$
</xs:annotation>
<xs:annotation>
  <xs:documentation source="xhtml-copyright-1.xsd"/>
</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:
xhtml.Inline.mix; character-level elements
xhtml.Block.mix; block-like elements, e.g., paragraphs and lists
xhtml.Flow.mix; any block or inline elements
xhtml.HeadOpts.mix; Head Elements
xhtml.InlinePre.mix; Special class for pre content model
xhtml.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
xhtml.Core.extra.attrib
xhtml.I18n.extra.attrib
xhtml.Common.extra
The above attribute Groups are considered Global

XHTML Metainformation Modules

Attributes defined here:
XHTML RDFa attributes

XHTML+RDFa 1.1 - Third Edition
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>

A.2 XHTML+RDFa Schema Content Model Module
<xs:group
    ref="xhtml.HeadOpts.mix"
    minOccurs="0"
    maxOccurs="unbounded"/>
<xs:sequence
    minOccurs="0">
    <xs:element name="base"
        type="xhtml.base.type"/>
    <xs:group
        ref="xhtml.HeadOpts.mix"
        minOccurs="0"
        maxOccurs="unbounded"/>
</xs:sequence>
</xs:sequence>
<xs:element name="base"
    type="xhtml.base.type"
    minOccurs="1"
    maxOccurs="1"/>
<xs:group
    ref="xhtml.HeadOpts.mix"
    minOccurs="0"
    maxOccurs="unbounded"/>
<xs:element name="title"
    minOccurs="1"
    maxOccurs="1"
    type="xhtml.title.type"/>
<xs:group
    ref="xhtml.HeadOpts.mix"
    minOccurs="0"
    maxOccurs="unbounded"/>
</xs:sequence>
</xs:choice>
</xs:group>
<!--
ins and del are used to denote editing changes
-->
These elements are neither block nor inline, and can essentially be used anywhere in the document body.

<!-- Inline Elements -->

<xs:group name="xhtml.InlStruct.class">
  <xs:choice>
    <xs:element name="br" type="xhtml.br.type"/>
    <xs:element name="span" type="xhtml.span.type"/>
  </xs:choice>
</xs:group>

<xs:group name="xhtml.InlPhras.class">
  <xs:choice>
    <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:choice>
</xs:group>
<xs:element name="button"
    type="xhtml.button.type"/>
</xs:choice>
</xs:group>
<xs:group
    name="xhtml.Inline.extra">
    <xs:sequence/>
</xs:group>
<xs:group
    name="xhtml.Ruby.class">
    <xs:sequence>
    <xs:element name="ruby"
        type="xhtml.ruby.type"/>
    </xs:sequence>
</xs:group>
<!--
Inline.class includes all inline elements,
used as a component in mixes
-->
<xs:group>
  <xs:group ref="xhtml.Anchor.class"/>
  <xs:group ref="xhtml.InlSpecial.class"/>
  <xs:group ref="xhtml.InlForm.class"/>
  <xs:group ref="xhtml.Inline.extra"/>
</xs:choice></xs:group>

<xsl:group name="xhtml.InlinePre.mix">
<!--
  InlinePre.mix
  Used as a component in pre model
-->
  <xs:choice>
    <xs:group ref="xhtml.InlStruct.class"/>
    <xs:group ref="xhtml.InlPhras.class"/>
    <xs:element name="tt" type="xhtml.InlPres.type"/>
    <xs:element name="i" type="xhtml.InlPres.type"/>
    <xs:element name="b" type="xhtml.InlPres.type"/>
    <xs:group ref="xhtml.I18n.class"/>
    <xs:group ref="xhtml.Anchor.class"/>
    <xs:group ref="xhtml.Misc.class"/>
    <xs:element name="map" type="xhtml.map.type"/>
    <xs:group ref="xhtml.Inline.extra"/>
  </xs:choice>
</xs:group>

<xs:group name="xhtml.InlNoAnchor.class">
<!--
  InlNoAnchor.class includes all non-anchor inlines,
  used as a component in mixes
-->
  <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.InlSpecial.class"/>
  </xs:choice>
</xs:group>
InlForm.mix includes all non-anchor inlines except ruby

InlNoAnchor.mix includes all non-anchor inlines

Inline.mix includes all inline elements, including Misc.class

InlNoRuby.mix includes all of inline.mix elements except ruby

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.
A.2 XHTML+RDFa Schema Content Model Module

XHTML+RDFa 1.1 - Third Edition
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.

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

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.
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].
Lists module

Elements defined here:
* dt, dd, dl, ol, ul, li

Original Body Attlist

Redefinition by the XHTML Event Attribute Module

Original Title Attlist

Redefinition by XHTML Event Attribute Module

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:redefine schemaLocation="xhtml-base-1.xsd">
<xs:annotation>
<xs:documentation>
Base module
Elements defined here:
* base
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:include schemaLocation="xhtml-script-1.xsd">
<xs:annotation>
<xs:documentation>
Scripting module
Elements defined here:
* script, noscript
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:include schemaLocation="xhtml-style-1.xsd">
<xs:annotation>
<xs:documentation>
Style module
Elements defined here:
* style
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:include schemaLocation="xhtml-inlstyle-1.xsd">
<xs:annotation>
<xs:documentation>
Style attribute module
Attribute defined here:
* style
</xs:documentation>
</xs:annotation>
</xs:include>
<xs:redefine schemaLocation="xhtml-image-1.xsd">
<xs:annotation>
<xs:documentation>
Image module
Elements defined here:
* img
</xs:documentation>
</xs:annotation>
</xs:redefine>
<xs:documentation>Redefinition by Server Side Image Module</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
</xs:redefine>
<xs:attributeGroup name="xhtml-area.attlist">
<xs:attributeGroup ref="xhtml-area.attlist">
<xs:annotation>
<xs:documentation>Original Area Attributes (in CSI Module)</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
<xs:attributeGroup ref="xhtml-area.events.attlist">
<xs:annotation>
<xs:documentation>Redefinition by Events Attribute Module</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
<xs:attributeGroup ref="xhtml-area.target.attlist">
<xs:annotation>
<xs:documentation>Target Module - Area Attribute Additions</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
</xs:attributeGroup>
</xs:redefine>
<xs:include schemaLocation="xhtml-ssimap-1.xsd">
<xs:annotation>
<xs:documentation>Server-side image maps module</xs:documentation>
</xs:annotation>
</xs:include>
</xs:redefine>
<xs:attributeGroup name="xhtml-object.attlist">
<xs:attributeGroup ref="xhtml-object.attlist">
<xs:annotation>
<xs:documentation>Original Object Attlist</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
<xs:attributeGroup ref="xhtml-object.csim.attlist">
<xs:annotation>
<xs:documentation>Redefinition by Client Images Map Module</xs:documentation>
</xs:annotation>
</xs:attributeGroup>
</xs:attributeGroup>
</xs:redefine>
<xs:include schemaLocation="xhtml-param-1.xsd">
<xs:annotation>
<xs:documentation>Param module</xs:documentation>
</xs:annotation>
</xs:include>
</xs:redefine>
<xs:include schemaLocation="xhtml-table-1.xsd">
<xs:annotation>
<xs:documentation>Tables module</xs:documentation>
</xs:annotation>
</xs:include>
A.3 XHTML+RDFa Schema Modules

<xs:attributeGroup name="xhtml.select.attlist">
  <xs:attributeGroup ref="xhtml.select.attlist">
    <xs:annotation>
      <xs:documentation>
        Original Select Attributes (in Forms Module)
      </xs:documentation>
    </xs:annotation>
  </xs:attributeGroup>
  <xs:attributeGroup ref="xhtml.select.events.attlist">
    <xs:annotation>
      <xs:documentation>
        Redefinition by Event Attribute Module
      </xs:documentation>
    </xs:annotation>
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.textarea.attlist">
  <xs:attributeGroup ref="xhtml.textarea.attlist">
    <xs:annotation>
      <xs:documentation>
        Original TextArea Attributes (in Forms Module)
      </xs:documentation>
    </xs:annotation>
  </xs:attributeGroup>
  <xs:attributeGroup ref="xhtml.textarea.events.attlist">
    <xs:annotation>
      <xs:documentation>
        Redefinition by Event Attribute Module
      </xs:documentation>
    </xs:annotation>
  </xs:attributeGroup>
</xs:attributeGroup>

<xs:attributeGroup name="xhtml.button.attlist">
  <xs:attributeGroup ref="xhtml.button.attlist">
    <xs:annotation>
      <xs:documentation>
        Original Button Attributes (in Forms Module)
      </xs:documentation>
    </xs:annotation>
  </xs:attributeGroup>
  <xs:attributeGroup ref="xhtml.button.events.attlist">
    <xs:annotation>
      <xs:documentation>
        Redefinition by Event Attribute Module
      </xs:documentation>
    </xs:annotation>
  </xs:attributeGroup>
</xs:attributeGroup>

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

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

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

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

Attributes defined here:
* XHTML Event Types
  <xs:annotation>
    <xs:documentation>
      http://www.w3.org/TR/xhtml-modularization/abstract_modules.html#_intrinsiceventsmodule/
    </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>

Attributes defined here:
* XHTML RDFa attributes
  <xs:annotation>
    <xs:documentation>
      http://www.w3.org/TR/rdfa-syntax/
    </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>
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" >
```

```xml
<!-- 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
```

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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)

<!- end of xhtml-metaAttributes-1.mod -->

---

B.2 XHTML+RDFa Content Model Module

This is XHTML+RDFa.
Copyright 1998-2010 W3C (MIT, ERCIM, Keio), All Rights Reserved.
Revision: $Id: Overview.html,v 1.88 2014-12-12 13:59:01 smccarro Exp $ SMI

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)

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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. -->

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head></head>
<body>

<!-- B.2 XHTML+RDFa Content Model Module -->

<!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;" >

</body>
</html>
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].

<!-- XHTML 1.1 + RDFa DTD ................................................. -->
<!-- file: xhtml-rdfa-2.dtd -->

<!-- XHTML 1.1 + RDFa 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"

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

<!ENTITY % XHTML.version "XHTML+RDFa 1.1" >

<!-- 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;]>
<!ENTITY % xhtml-datatypes.mod
B.4 SGML Open Catalog Entry for XHTML+RDFa

This section contains the SGML Open Catalog-format definition [SGML-CATALOG[p.62]] of the public identifiers for XHTML+RDFa 1.1.

You can download this version of this file from DTD/xhtml-rdfa.cat. The latest version is available at http://www.w3.org/MarkUp/DTD/xhtml-rdfa.cat.
-- File catalog .............................................................. --
-- XHTML+RDFa Catalog Data File
Revision: $Revision: 1.88 $

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"

-- XHTML+RDFa modules ..............................................--
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 ..................................................--
-- ..........................................................................--
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 RDFa 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

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F.2 Informative references

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