Abstract
RDFa Core 1.1 [RDFA-CORE] 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], 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 version reflects changes made as a result of comments received during the second Last Call period. That document was widely reviewed and the Working Group has made a small number of improvements and clarifications as a result. The Working Group believes that all comments received during the last review have been addressed.
This is a revision of Sections 8 and 9 and Appendix A of RDFa Syntax 1.0 [RDFA-SYNTAX [p.43]]. Once development is complete, if accepted by the W3C membership, this document will superecede 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.43]].
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.43]].
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. An implementation report lists several implementations of this specification tested during the Candidate Recommendation period. A community-maintained Wiki page includes subsequent updates.

This document was published by the RDF Web Applications Working Group as a Candidate 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-wg@w3.org (subscribe, archives). W3C publishes a Candidate Recommendation to indicate that the document is believed to be stable and to encourage implementation by the developer community. This Candidate Recommendation is expected to advance to Proposed Recommendation no earlier than 30 April 2012. All feedback is welcome.

Publication as a Candidate 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.

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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.43] 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.43].

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.8] and Appendix B - XHTML+RDFa Document Type Definition [p.29].

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-NAME][p.43]. The namespace URI for XHTML is defined to be http://www.w3.org/1999/xhtml.
3. Additional RDFa Processing Rules

The start tag may also contain the declaration of the XML Schema Instance Namespace and an XML Schema Instance schemaLocation attribute [XMLSCHEMA-2 [p.43]]. 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/SHEMA/xhtml-rdfa-2.xsd.

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

```xml
<?xml version="1.0" encoding="UTF-8"?>
<html xmlns="http://www.w3.org/1999/xhtml"
     version="XHTML+RDFa 1.1"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://www.w3.org/1999/xhtml
                         http://www.w3.org/MarkUp/SHEMA/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.43]]. For further information on using media types with XHTML Family markup languages, see the informative note [XHTML-MEDIA-TYPES [p.44]].

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.43]] 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.43]] 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.43)
(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.43).
• 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.43).

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.43). 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.7]
  @about, @content, @dataype, @typeof, @prefix, @property, @rel, @resource, @rev,
  @vocab are available on all elements.
Ruby Annotation Module from [RUBY][p.43]
  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.43]. The lang attribute is defined in [HTML401][p.43]. 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.8], and as an XML DTD is defined in [Appendix B][p.29].
5. Metainformation Attributes Module

The Metainformation Attributes Module defines the Metainformation attribute collection in the format required by [XHTML-MODULARIZATION11-2e][p.43]. 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.43].

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</td>
<td>(CDATA)</td>
</tr>
<tr>
<td>datatype</td>
<td>(TERMorCURIEorAbsIRI)</td>
</tr>
<tr>
<td>prefix</td>
<td>(NCName ' ': IRI)+</td>
</tr>
<tr>
<td>property</td>
<td>(TERMorCURIEorAbsIRIs)</td>
</tr>
<tr>
<td>rel</td>
<td>(TERMorCURIEorAbsIRIs)</td>
</tr>
<tr>
<td>resource</td>
<td>(SafeCURIEorCURIEorIRI)</td>
</tr>
<tr>
<td>rev</td>
<td>(TERMorCURIEorAbsIRIs)</td>
</tr>
<tr>
<td>typeof</td>
<td>(TERMorCURIEorAbsIRIs)</td>
</tr>
<tr>
<td>vocab</td>
<td>(IRI)</td>
</tr>
</tbody>
</table>

An implementation of this module in XML Schema can be found in Appendix A[p.8] and in XML DTD in Appendix B[p.29].
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, and the files are also contained in the "Gzip'd TAR" and "Zip" archives linked to at the top of this document. 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:id $Id: Overview.html,v 1.55 2012/03/09 04:29:33 smccarro Exp $>
    <xs:documentation source="xhtml-rdfa-copyright-1.xsd"/>
  </xs:annotation>
  <xs:annotation>
    <xs:documentation>
      XHTML Metainformation Attributes
    </xs:documentation>
  </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="typeof" type="xh11d:TERMorCURIEoAbsIRIs"/>
</xs:schema>
```
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](http://www.w3.org/MarkUp/SCHEMA/xhtml-rdfa-model-2.xsd).
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
<xs:attributeGroup ref="xhtml.Events.attrib">
    <xs:annotation>
        <xs:documentation>
            Attributes from Events Module
        </xs:documentation>
    </xs:annotation>
</xs:attributeGroup>

<xs: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:choice>
</xs:group>
<xs:element name="ins"
    type="xhtml.edit.type"/>
<xs:element name="del"
    type="xhtml.edit.type"/>
</xs:choice>
</xs:group>
 <!--
script and noscript are used to contain scripts
and alternative content
-->
<xs:group
    name="xhtml.Script.class">
    <xs:choice>
        <xs:element name="script"
            type="xhtml.script.type"/>
        <xs:element name="noscript"
            type="xhtml.noscript.type"/>
    </xs:choice>
</xs:group>
<xs:group
    name="xhtml.Misc.extra">
    <xs:sequence/>
</xs:group>
 <!-- These elements are neither block nor inline, and can
    essentially be used anywhere in the document body. -->
<xs:group
    name="xhtml.Misc.class">
    <xs:choice>
        <xs:group
            ref="xhtml.Edit.class"/>
        <xs:group
            ref="xhtml.Script.class"/>
        <xs:group
            ref="xhtml.Misc.extra"/>
    </xs:choice>
</xs:group>
 <!-- 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:choice>
</xs:group>
type="xhtml.map.type"/>
  <xs:element name="object"
    type="xhtml.object.type"/>
</xs:choice>
</xs:group>
<xs:group
  name="xhtml.InlForm.class">
<xs:choice>
  <xs:element name="input"
    type="xhtml.input.type"/>
  <xs:element name="select"
    type="xhtml.select.type"/>
  <xs:element name="textarea"
    type="xhtml.textarea.type"/>
  <xs:element name="label"
    type="xhtml.label.type"/>
  <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
  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>
InlNoRuby.class includes all inline elements except ruby

InlinePre.mix
Used as a component in pre model

InlNoAnchor.class includes all non-anchor inlines,
used as a component in mixes

-->  
<xs:group
   name="xhtml.InlNoAnchor.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.InlSpecial.class"/>
   <xs:group
      ref="xhtml.InlForm.class"/>
   <xs:group
      ref="xhtml.Ruby.class"/>
   <xs:group
      ref="xhtml.Inline.extra"/>
  </xs:choice>
</xs:group>
<!--
InlNoAnchor.mix includes all non-anchor inlines
-->  
<xs:group
   name="xhtml.InlNoAnchor.mix">
  <xs:choice>
   <xs:group
      ref="xhtml.InlNoAnchor.class"/>
   <xs:group
      ref="xhtml.Misc.class"/>
  </xs:choice>
</xs:group>
<!--
Inline.mix includes all inline elements, including Misc.class
-->  
<xs:group
   name="xhtml.Inline.mix">
  <xs:choice>
   <xs:group
      ref="xhtml.Inline.class"/>
   <xs:group
      ref="xhtml.Misc.class"/>
  </xs:choice>
</xs:group>
<!--
InlNoRuby.mix includes all of inline.mix elements except ruby
-->  
<xs:group
   name="xhtml.InlNoRuby.mix">
  <xs:choice>
   <xs:group
      ref="xhtml.InlNoRuby.class"/>
   <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:element name="h3" type="xhtml.h3.type"/>
        <xs:element name="h4" type="xhtml.h4.type"/>
        <xs:element name="h5" type="xhtml.h5.type"/>
        <xs:element name="h6" type="xhtml.h6.type"/>
    </xs:choice>
</xs:group>

<xs:group name="xhtml.List.class">
    <xs:choice>
        <xs:element name="ul" type="xhtml.ul.type"/>
        <xs:element name="ol" type="xhtml.ol.type"/>
        <xs:element name="dl" type="xhtml.dl.type"/>
    </xs:choice>
</xs:group>

<xs:group name="xhtml.Table.class">
    <xs:choice>
        <xs:element name="table" type="xhtml.table.type"/>
    </xs:choice>
</xs:group>

<xs:group name="xhtml.Form.class">
    <xs:choice>
        <xs:element name="form" type="xhtml.form.type"/>
    </xs:choice>
</xs:group>

<xs:group name="xhtml.Fieldset.class">
    <xs:choice>
        <xs:element name="fieldset" type="xhtml.fieldset.type"/>
    </xs:choice>
</xs:group>
```
</xs:group>
<xs:group name="xhtml.BlkStruct.class">
  <xs:choice>
    <xs:element name="p" type="xhtml.p.type"/>
    <xs:element name="div" type="xhtml.div.type"/>
  </xs:choice>
</xs:group>
<xs:group name="xhtml.BlkPhras.class">
  <xs:choice>
    <xs:element name="pre" type="xhtml.pre.type"/>
    <xs:element name="blockquote" type="xhtml.blockquote.type"/>
    <xs:element name="address" type="xhtml.address.type"/>
  </xs:choice>
</xs:group>
<xs:group name="xhtml.BlkPres.class">
  <xs:sequence>
    <xs:element name="hr" type="xhtml.hr.type"/>
  </xs:sequence>
</xs:group>
<xs:group name="xhtml.BlkSpecial.class">
  <xs:choice>
    <xs:group ref="xhtml.Table.class"/>
    <xs:group ref="xhtml.Form.class"/>
    <xs:group ref="xhtml.Fieldset.class"/>
  </xs:choice>
</xs:group>
<xs:group name="xhtml.Block.extra">
  <xs:sequence/>
</xs:group>
<!--
Block.class includes all block elements,  
used as an component in mixes
-->
ref="xhtml.BlkSpecial.class"/>
   <xs:group
       ref="xhtml.Block.extra"/>
</xs:choice>
</xs:group>
</xs:group>
<!--
Block.mix includes all block elements plus %Misc.class;
-->
<xs:group
    name="xhtml.Block.mix">
    <xs:choice>
    <xs:group
        ref="xhtml.Heading.class"/>
    <xs:group
        ref="xhtml.List.class"/>
    <xs:group
        ref="xhtml.Block.class"/>
    <xs:group
        ref="xhtml.Misc.class"/>
</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.
-->
<xs:group
    name="xhtml.Flow.mix">
    <xs:choice>
    <xs:group
        ref="xhtml.Heading.class"/>
    <xs:group
        ref="xhtml.List.class"/>
    <xs:group
        ref="xhtml.Block.class"/>
    <xs:group
        ref="xhtml.Inline.class"/>
    <xs:group
        ref="xhtml.Misc.class"/>
</xs:choice>
</xs:group>
<!--
BlkNoForm.mix includes all non-form block elements,
plus Misc.class
-->
<xs:group
    name="xhtml.BlkNoForm.mix">
    <xs:choice>
    <xs:group
        ref="xhtml.Heading.class"/>
</xs:group>
</xs:group>
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].
The Text module includes declarations for all core text container elements and their attributes.

- block phrasal
- block structural
- inline phrasal
- inline structural

Elements defined here:
- address, blockquote, pre, h1, h2, h3, h4, h5, h6
- div, p
- abbr, acronym, cite, code, dfn, em, kbd, q, samp, strong, var
- br, span

The Lists module includes declarations for all core list container elements and their attributes.

- dt, dd, dl, ol, ul, li

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

The Structural module includes declarations for all core structural elements and their attributes.

- title, head, body, html

Elements defined here:
- title, head, body, html
Bidirectional element module

Elements defined here:

* bdo

Presentational module

Elements defined here:

* hr, b, big, i, small, sub, sup, tt

Base module

Elements defined here:

* base

Scripting module

Elements defined here:

* script, noscript

Style module

Elements defined here:

* style

Image module
Elements defined here:

* `area`, `map`

<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 ref="xhtml.area.csim.attlist">
      <xs:annotation>
        Redefinition by Client Side Image Map Module
      </xs:annotation>
    </xs:attributeGroup>
    <xs:attributeGroup ref="xhtml.area.ssimap.attlist">
      <xs:annotation>
        Redefinition by Server Side Image Module
      </xs:annotation>
    </xs:attributeGroup>
    <xs:attributeGroup ref="xhtml.area.events.attlist">
      <xs:annotation>
        Redefinition by Events Attribute Module
      </xs:annotation>
    </xs:attributeGroup>
  </xs:attributeGroup>
</xs:redefine>

<xs:include schemaLocation="xhtml-csimap-1.xsd">
  <xs:annotation>
    <xs:documentation>
      Client-side image maps module
    </xs:documentation>
  </xs:annotation>
</xs:include>

Elements defined here:

* `img`

<xs:attributeGroup name="xhtml.img.attlist">
  <xs:attributeGroup ref="xhtml.img.attlist">
    <xs:annotation>
      <xs:documentation>
        Original Image Attributes (in Image Module)
      </xs:documentation>
    </xs:annotation>
    <xs:attributeGroup ref="xhtml.img.csim.attlist">
      <xs:annotation>
        Redefinition by Client Side Image Map Module
      </xs:annotation>
    </xs:attributeGroup>
    <xs:attributeGroup ref="xhtml.img.ssimap.attlist">
      <xs:annotation>
        Redefinition by Server Side Image Module
      </xs:annotation>
    </xs:attributeGroup>
  </xs:attributeGroup>
</xs:redefine>

<xs:include schemaLocation="xhtml-ssismap-1.xsd">
  <xs:annotation>
    <xs:documentation>
      Server-side image maps module
    </xs:documentation>
  </xs:annotation>
</xs:include>

Attributes defined here:

* `ismap` on `img`

<xs:attribute name="ismap">
  <xs:simpleType name="ismap">
    <xs:annotation>
      <xs:documentation>
        Is image map attribute
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:boolean">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>  
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

<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 ref="xhtml.object.csim.attlist">
      <xs:annotation>
        Redefinition by Client Images Map Module
      </xs:annotation>
    </xs:attributeGroup>
    <xs:attributeGroup ref="xhtml.object.ssimap.attlist">
      <xs:annotation>
        Redefinition by Server Side Image Module
      </xs:annotation>
    </xs:attributeGroup>
  </xs:attributeGroup>
</xs:redefine>

<xs:include schemaLocation="xhtml-object-1.xsd">
  <xs:annotation>
    <xs:documentation>
      Object module
    </xs:documentation>
  </xs:annotation>
</xs:include>
A.3 XHTML+RDFa Schema Modules

Param module

Elements defined here:
* param

Tables module

Elements defined here:
* table, caption, thead, tfoot, tbody, colgroup, col, tr, th, td

Forms module

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

Changes to XHTML Form Attlist

Forms module

Original Form Attributes (declared in Forms Module)

XHTML Events Module - Attribute additions

XHTML Target Module - Attribute additions

Changes to XHTML Form Input Element

Client Side Image Map Module

Server Side Image Map Module

Redefinition by Event Attribute Module
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

START OF TXT
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).

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    targetNamespace="http://www.w3.org/1999/xhtml"
    xmlns:xh11d="http://www.w3.org/1999/xhtml/datatypes/"
    xmlns="http://www.w3.org/1999/xhtml"
    elementFormDefault="qualified">
  <xs:annotation>
    <xs:documentation> This is the XML Schema driver for XHTML + RDFa Please use this namespace for XHTML elements: "http://www.w3.org/1999/xhtml" $Id: xhtml-rdfa-1.xsd,v 1.2 2008/07/02 13:26:46 ahby Exp $ </xs:documentation>
  </xs:annotation>
  <xs:annotation>
    <xs:documentation> This is the Schema Driver file for XHTML + RDFa Document Type This schema + imports external schemas (xml.xsd) + refedines (and includes) schema modules for XHTML1.1 Document Type. + includes Schema for Named content model for the XHTML1.1 Document Type includes the following Modules XHTML Core modules (Required for XHTML Family Conformance) + text + hypertext + lists + structure Other XHTML modules + Edit + Bdo + Presentational + Link + Meta + Base + Scripting + Style + Image + Applet + Object + Param (Applet/Object modules require Param Module) + Tables + Forms + Client side image maps + Server side image maps + Ruby </xs:documentation>
  </xs:annotation>
      schemaLocation="http://www.w3.org/2001/xml.xsd"/>
  <xs:annotation>
    <xs:documentation> This import brings in the XML namespace attributes The XML attributes are used by various modules. </xs:documentation>
  </xs:annotation>
  <xs:import namespace="http://www.w3.org/1999/xhtml/datatypes/"
      schemaLocation="xhtml-datatypes-1.xsd"/>
  <xs:include schemaLocation="xhtml-rdfa-model-2.xsd"/>
  <xs:annotation>
    <xs:documentation> Document Model module for the XHTML+RDFa Document Type. This schema file defines all named models used by XHTML Modularization Framework for XHTML+RDFa Document Type </xs:documentation>
  </xs:annotation>
  <xs:include schemaLocation="xhtml-rdfa-modules-2.xsd"/>
  <xs:annotation>
    <xs:documentation> Schema that includes all modules (and redefinitions) for XHTML1.1 Document Type. </xs:documentation>
  </xs:annotation>
</xs:schema>
```
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 Metadata Attribute Module. This is done by using a content module mode, and then a driver module. There are direct links to the various files, and the files are also contained in the “Gzip’d TAR” and “Zip” archives linked to at the top of this document. 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 Metadata 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).
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)
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](http://www.w3.org/MarkUp/DTD/xhtml-rdfa-2.dtd)
XHTML+RDFa

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for Informatics and Mathematics, Keio University).
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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"
-->
<!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 -->
]%xhtml-prefw-redecl.mod;]

<!-- we need the datatypes now -->
<!ENTITY % xhtml-datatypes.module "INCLUDE" >
<![xhtml-datatypes.module;
<!ENTITY % xhtml-datatypes.mod
   PUBLIC "-//W3C//ENTITIES XHTML Datatypes 1.0//EN"
   "http://www.w3.org/MarkUp/DTD/xhtml-datatypes-1.mod" >
 %xhtml-datatypes.mod;]]>

<!-- bring in the RDFa attributes cause we need them in Common -->
<!ENTITY % xhtml-metaAttributes.module "INCLUDE" >
<![xhtml-metaAttributes.module;
<!ENTITY % xhtml-metaAttributes.mod
   PUBLIC "-//W3C//ENTITIES XHTML MetaAttributes 1.1//EN"
   "http://www.w3.org/MarkUp/DTD/xhtml-metaAttributes-2.mod" >
 %xhtml-metaAttributes.mod;]]>

<!ENTITY % xhtml-events.module "INCLUDE" >

<!ENTITY % Common.extra.attrib
   "href   %URI.datatype;   #IMPLIED
 %Metainformation.attrib;" >

<!-- adding the lang attribute into the I18N collection -->
B.4 SGML Open Catalog Entry for XHTML+RDFa

This section contains the SGML Open Catalog-format definition 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/DTD/xhtml-rdfa.cat](http://www.w3.org/MarkUp/DTD/DTD/xhtml-rdfa.cat).

---

-- File catalog .............................................................. --
-- XHTML+RDFa Catalog Data File

Revision: $Revision: 1.55 $

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"

--- :--------------------------------------------------------------------------------------------------:---

--- 41 ---
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.29]. If a document author wants to facilitate such validation, they may include the following declaration at the top of their document:

```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.43]]. Authors who want to be certain their documents are transformable by all [GRDDL [p.43]] processors may also include a profile attribute on the head element that includes a reference to the RDFa Initial Context IRI http://www.w3.org/2011/rdfa-context/xhtml-rdfa-1.1.

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
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- 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)
F. References

F.1 Normative references

[HTML401]

[RDFACORE]
Shane McCarron; et al. [RDFa Core 1.1: Syntax and processing rules for embedding RDF through attributes]. 15 December 2011. W3C Working Draft. URL: http://www.w3.org/TR/2011/WD-rdfa-core-20111215

[RFC2119]

[RFC3236]

[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/2006/REC-xml-names11-20060816

[XMLSCHEMA-2]

F.2 Informative references

[GRDDL]

[RDFASYNTAX]
[SGML-CATALOG]

[XHTML-MEDIA-TYPES]