HTML 4.01 Document Type Definition

```
<!--
This is HTML 4.01 Strict DTD, which excludes the presentation attributes and elements that
W3C expects to phase out as support for style sheets matures. Authors should use the
StrictDTD when possible, but may use the Transitional DTD when supportfor presentation
attribute and elements is required.

HTML 4 includes mechanisms for style sheets, scripting,embedding objects, improved support
for right to left and mixeddirection text, and enhancements to forms for
improvedaccessibility for people with disabilities.

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Further information about HTML 4.01 is available at:

http://www.w3.org/TR/1999/REC-html401-19991224

The HTML 4.01 specification includes additionalsyntactic constraints that cannot be expressed
withinthe DTDs.

-->

<!--Typical usage:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">

<html>
<head>
</head>
<body>
</body>
</html>

The URI used as a system identifier with the public identifier allowsthe user agent to
download the DTD and entity sets as needed.

The FPI for the Transitional HTML 4.01 DTD is:"-//W3C//DTD HTML 4.01 Transitional//EN"

This version of the transitional DTD is:http://www.w3.org/TR/1999/REC-html401-
19991224/loose.dtd

If you are writing a document that includes frames, use the following FPI:"-//W3C//DTD HTML
4.01 Frameset//EN"

This version of the frameset DTD is:http://www.w3.org/TR/1999/REC-html401-
19991224/frameset.dtd

Use the following (relative) URIs to refer to the DTDs and entity definitions of this
specification:

"strict.dtd"
"loose.dtd"
```

```
"frameset.dtd"
"HTMLlat1.ent"
"HTMLsymbol.ent"
"HTMLspecial.ent"
-->

<!--================== Imported Names ================================-->

<!-- Feature Switch for frameset documents -->

<!ENTITY % HTML.Frameset "IGNORE">
<!ENTITY % ContentType "CDATA"-- media type, as per [RFC2045]-->
<!ENTITY % ContentTypes "CDATA"-- comma-separated list of media types, as per [RFC2045]-->
<!ENTITY % Charset "CDATA"-- a character encoding, as per [RFC2045]-->
<!ENTITY % Charsets "CDATA"-- a space-separated list of character encodings, as per
[RFC2045]-->
<!ENTITY % LanguageCode "NAME"-- a language code, as per [RFC1766]-->
<!ENTITY % Character "CDATA"-- a single character from [ISO10646] -->
<!ENTITY % LinkTypes "CDATA"-- space-separated list of link types-->
<!ENTITY % MediaDesc "CDATA"-- single or comma-separated list of media descriptors-->
<!ENTITY % URI "CDATA"-- a Uniform Resource Identifier,   see [URI]-->
<!ENTITY % Datetime "CDATA" -- date and time information. ISO date format -->
<!ENTITY % Script "CDATA" -- script expression -->
<!ENTITY % StyleSheet "CDATA" -- style sheet data -->
<!ENTITY % Text "CDATA">

<!-- Parameter Entities -->
<!ENTITY % head.misc "SCRIPT|STYLE|META|LINK|OBJECT" -- repeatable head elements -->
<!ENTITY % heading "H1|H2|H3|H4|H5|H6" >
<!ENTITY % list "UL | OL">
<!ENTITY % preformatted "PRE"

<!--================ Character mnemonic entities =========================-->

<!ENTITY % HTMLlat1 PUBLIC
   "-//W3C//ENTITIES Latin1//EN//HTML"
   "HTMLlat1.ent">

%HTMLlat1;

<!ENTITY % HTMLsymbol PUBLIC
   "-//W3C//ENTITIES Symbols//EN//HTML"
   "HTMLsymbol.ent">

%HTMLsymbol;

<!ENTITY % HTMLspecial PUBLIC
   "-//W3C//ENTITIES Special//EN//HTML"
   "HTMLspecial.ent">

%HTMLspecial;

<!--=================== Generic Attributes ================================-->

<!ENTITY % coreattrs
"id         ID             #IMPLIED  -- document-wide unique id --
class       CDATA          #IMPLIED  -- space-separated list of classes --
style       %StyleSheet;   #IMPLIED  -- associated style info --
  title     %Text;         #IMPLIED  -- advisory title --"
>
```

```
<!ENTITY % i18n

"lang        %LanguageCode; #IMPLIED  -- language code --
dir         (ltr|rtl)      #IMPLIED  -- direction for weak/neutral text --"
  >

<!ENTITY % events
 "onclick     %Script;       #IMPLIED  -- a pointer button was clicked --
  ondblclick  %Script;       #IMPLIED  -- a pointer button was double clicked--
  onmousedown %Script;       #IMPLIED  -- a pointer button was pressed down --
  onmouseup   %Script;       #IMPLIED  -- a pointer button was released --
  onmouseover %Script;       #IMPLIED  -- a pointer was moved onto --
  onmousemove %Script;       #IMPLIED  -- a pointer was moved within --
  onmouseout  %Script;       #IMPLIED  -- a pointer was moved away --
  onkeypress  %Script;       #IMPLIED  -- a key was pressed and released --
  onkeydown   %Script;       #IMPLIED  -- a key was pressed down --
  onkeyup     %Script;       #IMPLIED  -- a key was released --"
  >

<!-- Reserved Feature Switch -->

<!ENTITY % HTML.Reserved "IGNORE">

<!-- The following attributes are reserved for possible future use -->

<![ %HTML.Reserved; [
<!ENTITY % reserved
 "datasrc     %URI;          #IMPLIED  -- a single or tabular Data Source --
  datafld     CDATA          #IMPLIED  -- the property or column name --
  dataformatas (plaintext|html) plaintext -- text or html --"
  >
]]>
<!ENTITY % reserved "">
<!ENTITY % attrs "%coreattrs; %i18n; %events;">

<!--=================== Text Markup ======================================-->

<!ENTITY % fontstyle "TT | I | B | BIG | SMALL">
<!ENTITY % phrase "EM | STRONG | DFN | CODE | SAMP | KBD | VAR | CITE | ABBR | ACRONYM" >
<!ENTITY % special "A | IMG | OBJECT | BR | SCRIPT | MAP | Q | SUB | SUP | SPAN | BDO">
<!ENTITY % formctrl "INPUT | SELECT | TEXTAREA | LABEL | BUTTON">

<!-- %inline; covers inline or "text-level" elements -->

<!ENTITY % inline "#PCDATA | %fontstyle; | %phrase; | %special; | %formctrl;">
<!ELEMENT (%fontstyle;|%phrase;) - - (%inline;)*>
<!ATTLIST (%fontstyle;|%phrase;)
  %attrs;                             -- %coreattrs, %i18n, %events --
  >
<!ELEMENT (SUB|SUP) - - (%inline;)*    -- subscript, superscript -->
<!ATTLIST (SUB|SUP)
  %attrs;                             -- %coreattrs, %i18n, %events --
  >
<!ELEMENT SPAN - - (%inline;)*         -- generic language/style container -->
<!ATTLIST SPAN
  %attrs;                             -- %coreattrs, %i18n, %events --
  %reserved;                    -- reserved for possible future use --
  >
<!ELEMENT BDO - - (%inline;)*          -- I18N BiDi over-ride -->
<!ATTLIST BDO
```

```
  %coreattrs;                           -- id, class, style, title --
  lang        %LanguageCode; #IMPLIED  -- language code --
  dir         (ltr|rtl)      #REQUIRED -- directionality -- >
<!ELEMENT BR - O EMPTY                 -- forced line break -->
<!ATTLIST BR %coreattrs;                       -- id, class, style, title -- >

<!--=================== HTML content models ================================-->

<!--HTML has two basic content models:%inline;     character level elements and text strings
%block;      block-like elements e.g. paragraphs and lists -->
<!ENTITY % block "P | %heading; | %list; | %preformatted; | DL | DIV | NOSCRIPT |  BLOCKQUOTE
| FORM | HR | TABLE | FIELDSET | ADDRESS">
<!ENTITY % flow "%block; | %inline;">

<!--==================== Document Body =====================================-->

<!ELEMENT BODY O O (%block;|SCRIPT)+ +(INS|DEL) -- document body -->
<!ATTLIST BODY
  %attrs;                               -- %coreattrs, %i18n, %events --
  onload          %Script;   #IMPLIED  -- the document has been loaded --
  onunload        %Script;   #IMPLIED  -- the document has been removed -- >
<!ELEMENT ADDRESS - - (%inline;)* -- information on author -->
<!ATTLIST ADDRESS
  %attrs;                               -- %coreattrs, %i18n, %events --
  >
<!ELEMENT DIV - - (%flow;)*            -- generic language/style container -->
<!ATTLIST DIV
  %attrs;                               -- %coreattrs, %i18n, %events --
  %reserved;                            -- reserved for possible future use -- >

<!--=================== The Anchor Element =================================-->

<!ENTITY % Shape "(rect|circle|poly|default)">
<!ENTITY % Coords "CDATA" -- comma-separated list of lengths -->
<!ELEMENT A - - (%inline;)* -(A)       -- anchor -->
<!ATTLIST A
  %attrs;                               -- %coreattrs, %i18n, %events --
  charset     %Charset;      #IMPLIED  -- char encoding of linked resource --
  type        %ContentType;  #IMPLIED  -- advisory content type --
  name        CDATA          #IMPLIED  -- named link end --
  href        %URI;          #IMPLIED  -- URI for linked resource --
  hreflang    %LanguageCode; #IMPLIED  -- language code --
  rel         %LinkTypes;    #IMPLIED  -- forward link types --
  rev         %LinkTypes;    #IMPLIED  -- reverse link types --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  shape       %Shape;        rect      -- for use with client-side image maps --
  coords      %Coords;       #IMPLIED  -- for use with client-side image maps --
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus -- >

<!--=================== Client-side image maps =============================-->

<!-- These can be placed in the same document or grouped in a separate document although this
isn't yet widely supported -->

<!ELEMENT MAP - - ((%block;) | AREA)+ -- client-side image map -->
<!ATTLIST MAP
  %attrs;                               -- %coreattrs, %i18n, %events --
  name        CDATA          #REQUIRED -- for reference by usemap -- >
```

```
<!ELEMENT AREA - O EMPTY               -- client-side image map area -->
<!ATTLIST AREA
  %attrs;                              -- %coreattrs, %i18n, %events --
  shape       %Shape;        rect      -- controls interpretation of coords --
  coords      %Coords;       #IMPLIED  -- comma-separated list of lengths --
  href        %URI;          #IMPLIED  -- URI for linked resource --
  nohref      (nohref)       #IMPLIED  -- this region has no action --
  alt         %Text;         #REQUIRED -- short description --
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus --
  >

<!--=================== The LINK Element ==================================-->

<!--
  Relationship values can be used in principle:
   a) for document specific toolbars/menus when used  with the LINK element in document head
e.g.    start, contents, previous, next, index, end, help
   b) to link to a separate style sheet (rel=stylesheet)
   c) to make a link to a script (rel=script)
   d) by stylesheets to control how collections of  html nodes are rendered into printed
documents
   e) to make a link to a printable version of this document  e.g. a postscript or pdf
version (rel=alternate media=print)
-->

<!ELEMENT LINK - O EMPTY               -- a media-independent link -->
<!ATTLIST LINK
  %attrs;                              -- %coreattrs, %i18n, %events --
  charset     %Charset;      #IMPLIED  -- char encoding of linked resource --
  href        %URI;          #IMPLIED  -- URI for linked resource --
  hreflang    %LanguageCode; #IMPLIED  -- language code --
  type        %ContentType;  #IMPLIED  -- advisory content type --
  rel         %LinkTypes;    #IMPLIED  -- forward link types --
  rev         %LinkTypes;    #IMPLIED  -- reverse link types --
  media       %MediaDesc;    #IMPLIED  -- for rendering on these media -- >

<!--=================== Images ============================================-->

<!-- Length defined in strict DTD for cellpadding/cellspacing -->
<!ENTITY % Length "CDATA" -- nn for pixels or nn% for percentage length -->
<!ENTITY % MultiLength "CDATA" -- pixel, percentage, or relative -->
<![ %HTML.Frameset; [
<!ENTITY % MultiLengths "CDATA" -- comma-separated list of MultiLength -->
]]>
<!ENTITY % Pixels "CDATA" -- integer representing length in pixels -->

<!-- To avoid problems with text-only UAs as well as
   to make image content understandable and navigable
   to users of non-visual UAs, you need to provide
   a description with ALT, and avoid server-side image maps -->
<!ELEMENT IMG - O EMPTY                -- Embedded image -->
<!ATTLIST IMG
  %attrs;                              -- %coreattrs, %i18n, %events --
  src         %URI;          #REQUIRED -- URI of image to embed --
  alt         %Text;         #REQUIRED -- short description --
  longdesc    %URI;          #IMPLIED  -- link to long description (complements alt) --
  name        CDATA          #IMPLIED  -- name of image for scripting --
```

```
  height      %Length;       #IMPLIED  -- override height --
  width       %Length;       #IMPLIED  -- override width --
  usemap      %URI;          #IMPLIED  -- use client-side image map --
  ismap       (ismap)        #IMPLIED  -- use server-side image map --
  >
<!-- USEMAP points to a MAP element which may be in this document
  or an external document, although the latter is not widely supported -->

<!--==================== OBJECT ======================================-->

<!--
  OBJECT is used to embed objects as part of HTML pages
  PARAM elements should precede other content. SGML mixed content
  model technicality precludes specifying this formally ...
-->
<!ELEMENT OBJECT - - (PARAM | %flow;)*
 -- generic embedded object -->
<!ATTLIST OBJECT
  %attrs;                             -- %coreattrs, %i18n, %events --
  declare     (declare)      #IMPLIED  -- declare but don't instantiate flag --
  classid     %URI;          #IMPLIED  -- identifies an implementation --
  codebase    %URI;          #IMPLIED  -- base URI for classid, data, archive--
  data        %URI;          #IMPLIED  -- reference to object's data --
  type        %ContentType;  #IMPLIED  -- content type for data --
  codetype    %ContentType;  #IMPLIED  -- content type for code --
  archive     CDATA          #IMPLIED  -- space-separated list of URIs --
  standby     %Text;         #IMPLIED  -- message to show while loading --
  height      %Length;       #IMPLIED  -- override height --
  width       %Length;       #IMPLIED  -- override width --
  usemap      %URI;          #IMPLIED  -- use client-side image map --
  name        CDATA          #IMPLIED  -- submit as part of form --
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  %reserved;                            -- reserved for possible future use --
  >
<!ELEMENT PARAM - O EMPTY              -- named property value -->
<!ATTLIST PARAM
  id          ID             #IMPLIED  -- document-wide unique id --
  name        CDATA          #REQUIRED -- property name --
  value       CDATA          #IMPLIED  -- property value --
  valuetype   (DATA|REF|OBJECT) DATA   -- How to interpret value --
  type        %ContentType;  #IMPLIED  -- content type for value when valuetype=ref -- >

<!--=================== Horizontal Rule ==================================-->

<!ELEMENT HR - O EMPTY -- horizontal rule -->
<!ATTLIST HR
  %attrs;                             -- %coreattrs, %i18n, %events -- >

<!--=================== Paragraphs =======================================-->

<!ELEMENT P - O (%inline;)*            -- paragraph -->
<!ATTLIST P
  %attrs;                             -- %coreattrs, %i18n, %events -- >

<!--=================== Headings =========================================-->

<!--
  There are six levels of headings from H1 (the most important)
  to H6 (the least important).
-->
```

```
<!ELEMENT (%heading;)  - - (%inline;)* -- heading -->
<!ATTLIST (%heading;)
  %attrs;                               -- %coreattrs, %i18n, %events -- >

<!--=================== Preformatted Text ================================-->

<!-- excludes markup for images and changes in font size -->
<!ENTITY % pre.exclusion "IMG|OBJECT|BIG|SMALL|SUB|SUP">
<!ELEMENT PRE - - (%inline;)* -(%pre.exclusion;) -- preformatted text -->
<!ATTLIST PRE
  %attrs;                               -- %coreattrs, %i18n, %events -- >

<!--===================== Inline Quotes ==================================-->

<!ELEMENT Q - - (%inline;)*             -- short inline quotation -->
<!ATTLIST Q
  %attrs;                               -- %coreattrs, %i18n, %events --
  cite        %URI;          #IMPLIED  -- URI for source document or msg -- >

<!--=================== Block-like Quotes ================================-->

<!ELEMENT BLOCKQUOTE - - (%block;|SCRIPT)+ -- long quotation -->
<!ATTLIST BLOCKQUOTE

  %attrs;                               -- %coreattrs, %i18n, %events --
  cite        %URI;          #IMPLIED  -- URI for source document or msg -- >

<!--=================== Inserted/Deleted Text ============================-->

<!-- INS/DEL are handled by inclusion on BODY -->
<!ELEMENT (INS|DEL) - - (%flow;)*       -- inserted text, deleted text -->
<!ATTLIST (INS|DEL)
  %attrs;                               -- %coreattrs, %i18n, %events --
  cite        %URI;          #IMPLIED  -- info on reason for change --
  datetime    %Datetime;     #IMPLIED  -- date and time of change -- >

<!--=================== Lists ============================================-->

<!-- definition lists - DT for term, DD for its definition -->
<!ELEMENT DL - - (DT|DD)+               -- definition list -->
<!ATTLIST DL
  %attrs;                               -- %coreattrs, %i18n, %events -- >
<!ELEMENT DT - O (%inline;)*            -- definition term -->
<!ELEMENT DD - O (%flow;)*              -- definition description -->
<!ATTLIST (DT|DD)
  %attrs;                               -- %coreattrs, %i18n, %events -- >
<!ELEMENT OL - - (LI)+                  -- ordered list -->
<!ATTLIST OL
  %attrs;                               -- %coreattrs, %i18n, %events -- >
<!-- Unordered Lists (UL) bullet styles -->
<!ELEMENT UL - - (LI)+                  -- unordered list -->
<!ATTLIST UL
  %attrs;                               -- %coreattrs, %i18n, %events -- >
<!ELEMENT LI - O (%flow;)*              -- list item -->
<!ATTLIST LI
  %attrs;                               -- %coreattrs, %i18n, %events -- >

<!--================ Forms ===============================================-->
```

```
<!ELEMENT FORM - - (%block;|SCRIPT)+ -(FORM) -- interactive form -->
<!ATTLIST FORM
  %attrs;                               -- %coreattrs, %i18n, %events --
  action      %URI;          #REQUIRED -- server-side form handler --
  method      (GET|POST)     GET       -- HTTP method used to submit the form--
  enctype     %ContentType;  "application/x-www-form-urlencoded"
  accept      %ContentTypes; #IMPLIED  -- list of MIME types for file upload --
  name        CDATA          #IMPLIED  -- name of form for scripting --
  onsubmit    %Script;       #IMPLIED  -- the form was submitted --
  onreset     %Script;       #IMPLIED  -- the form was reset --
  accept-charset %Charsets;  #IMPLIED  -- list of supported charsets -- >
<!-- Each label must not contain more than ONE field -->
<!ELEMENT LABEL - - (%inline;)* -(LABEL) -- form field label text -->
<!ATTLIST LABEL
  %attrs;                               -- %coreattrs, %i18n, %events --
  for         IDREF          #IMPLIED  -- matches field ID value --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus -- >
<!ENTITY % InputType
  "(TEXT | PASSWORD | CHECKBOX |RADIO | SUBMIT | RESET |FILE | HIDDEN | IMAGE | BUTTON)"
   >
<!-- attribute name required for all but submit and reset -->
<!ELEMENT INPUT - O EMPTY              -- form control -->
<!ATTLIST INPUT
  %attrs;                               -- %coreattrs, %i18n, %events --
  type        %InputType;    TEXT      -- what kind of widget is needed --
  name        CDATA          #IMPLIED  -- submit as part of form --
  value       CDATA          #IMPLIED  -- Specify for radio buttons and checkboxes --
  checked     (checked)      #IMPLIED  -- for radio buttons and check boxes --
  disabled    (disabled)     #IMPLIED  -- unavailable in this context --
  readonly    (readonly)     #IMPLIED  -- for text and passwd --
  size        CDATA          #IMPLIED  -- specific to each type of field --
  maxlength   NUMBER         #IMPLIED  -- max chars for text fields --
  src         %URI;          #IMPLIED  -- for fields with images --
  alt         CDATA          #IMPLIED  -- short description --
  usemap      %URI;          #IMPLIED  -- use client-side image map --
  ismap       (ismap)        #IMPLIED  -- use server-side image map --
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus --
  onselect    %Script;       #IMPLIED  -- some text was selected --
  onchange    %Script;       #IMPLIED  -- the element value was changed --
  accept      %ContentTypes; #IMPLIED  -- list of MIME types for file upload --
  %reserved;                            -- reserved for possible future use -- >
<!ELEMENT SELECT - - (OPTGROUP|OPTION)+ -- option selector -->
<!ATTLIST SELECT
  %attrs;                               -- %coreattrs, %i18n, %events --
  name        CDATA          #IMPLIED  -- field name --
  size        NUMBER         #IMPLIED  -- rows visible --
  multiple    (multiple)     #IMPLIED  -- default is single selection --
  disabled    (disabled)     #IMPLIED  -- unavailable in this context --
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus --
  onchange    %Script;       #IMPLIED  -- the element value was changed --
  %reserved;                            -- reserved for possible future use -- >
<!ELEMENT OPTGROUP - - (OPTION)+ -- option group -->
<!ATTLIST OPTGROUP
  %attrs;                               -- %coreattrs, %i18n, %events --
```

```
  disabled    (disabled)     #IMPLIED  -- unavailable in this context --
  label       %Text;         #REQUIRED -- for use in hierarchical menus --
  >
<!ELEMENT OPTION - O (#PCDATA)         -- selectable choice -->
<!ATTLIST OPTION
  %attrs;                               -- %coreattrs, %i18n, %events --
  selected    (selected)     #IMPLIED
  disabled    (disabled)     #IMPLIED  -- unavailable in this context --
  label       %Text;         #IMPLIED  -- for use in hierarchical menus --
  value       CDATA          #IMPLIED  -- defaults to element content -- >
<!ELEMENT TEXTAREA - - (#PCDATA)       -- multi-line text field -->
<!ATTLIST TEXTAREA
  %attrs;                               -- %coreattrs, %i18n, %events --
  name        CDATA          #IMPLIED
  rows        NUMBER         #REQUIRED
  cols        NUMBER         #REQUIRED
  disabled    (disabled)     #IMPLIED  -- unavailable in this context --
  readonly    (readonly)     #IMPLIED
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus --
  onselect    %Script;       #IMPLIED  -- some text was selected --
  onchange    %Script;       #IMPLIED  -- the element value was changed --
  %reserved;                            -- reserved for possible future use -- >

<!--
  #PCDATA is to solve the mixed content problem,
  per specification only whitespace is allowed there!
 -->
<!ELEMENT FIELDSET - - (#PCDATA,LEGEND,(%flow;)*) -- form control group -->
<!ATTLIST FIELDSET
  %attrs;                               -- %coreattrs, %i18n, %events --
  >
<!ELEMENT LEGEND - - (%inline;)*       -- fieldset legend -->
<!ATTLIST LEGEND
  %attrs;                               -- %coreattrs, %i18n, %events --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  >
<!ELEMENT BUTTON - - (%flow;)* -(A|%formctrl;|FORM|FIELDSET) -- push button -->
<!ATTLIST BUTTON
  %attrs;                               -- %coreattrs, %i18n, %events --
  name        CDATA          #IMPLIED
  value       CDATA          #IMPLIED  -- sent to server when submitted --
  type        (button|submit|reset) submit -- for use as form button --
  disabled    (disabled)     #IMPLIED  -- unavailable in this context --
  tabindex    NUMBER         #IMPLIED  -- position in tabbing order --
  accesskey   %Character;    #IMPLIED  -- accessibility key character --
  onfocus     %Script;       #IMPLIED  -- the element got the focus --
  onblur      %Script;       #IMPLIED  -- the element lost the focus --
  %reserved;                            -- reserved for possible future use -- >

<!--======================= Tables =======================================-->

<!-- IETF HTML table standard, see [RFC1942] -->
<!--
 The BORDER attribute sets the thickness of the frame around the
 table. The default units are screen pixels.
 The FRAME attribute specifies which parts of the frame around
 the table should be rendered. The values are not the same as
 CALS to avoid a name clash with the VALIGN attribute.
```

```
 The value "border" is included for backwards compatibility with
 <TABLE BORDER> which yields frame=border and border=implied
 For <TABLE BORDER=1> you get border=1 and frame=implied. In this
 case, it is appropriate to treat this as frame=border for backwards
 compatibility with deployed browsers.
-->
<!ENTITY % TFrame "(void|above|below|hsides|lhs|rhs|vsides|box|border)">
<!--
 The RULES attribute defines which rules to draw between cells:
 If RULES is absent then assume: "none" if BORDER is absent or BORDER=0 otherwise "all"
-->
<!ENTITY % TRules "(none | groups | rows | cols | all)">

<!-- horizontal placement of table relative to document -->
<!ENTITY % TAlign "(left|center|right)">
<!-- horizontal alignment attributes for cell contents -->
<!ENTITY % cellhalign
  "align      (left|center|right|justify|char) #IMPLIED
   char       %Character;    #IMPLIED  -- alignment char, e.g. char=':' --
   charoff    %Length;       #IMPLIED  -- offset for alignment char --"
  >
<!-- vertical alignment attributes for cell contents -->
<!ENTITY % cellvalign
  "valign     (top|middle|bottom|baseline) #IMPLIED"
  >
<!ELEMENT TABLE - - (CAPTION?, (COL*|COLGROUP*), THEAD?, TFOOT?, TBODY+)>
<!ELEMENT CAPTION  - - (%inline;)*     -- table caption -->
<!ELEMENT THEAD    - O (TR)+           -- table header -->
<!ELEMENT TFOOT    - O (TR)+           -- table footer -->
<!ELEMENT TBODY    O O (TR)+           -- table body -->
<!ELEMENT COLGROUP - O (COL)*          -- table column group -->
<!ELEMENT COL      - O EMPTY           -- table column -->
<!ELEMENT TR       - O (TH|TD)+        -- table row -->
<!ELEMENT (TH|TD)  - O (%flow;)*       -- table header cell, table data cell-->
<!ATTLIST TABLE                        -- table element --
  %attrs;                              -- %coreattrs, %i18n, %events --
  summary     %Text;         #IMPLIED  -- purpose/structure for speech output--
  width       %Length;       #IMPLIED  -- table width --
  border      %Pixels;       #IMPLIED  -- controls frame width around table --
  frame       %TFrame;       #IMPLIED  -- which parts of frame to render --
  rules       %TRules;       #IMPLIED  -- rulings between rows and cols --
  cellspacing %Length;       #IMPLIED  -- spacing between cells --
  cellpadding %Length;       #IMPLIED  -- spacing within cells --
  %reserved;                           -- reserved for possible future use --
  datapagesize CDATA         #IMPLIED  -- reserved for possible future use --
  >

<!ATTLIST CAPTION
  %attrs;                              -- %coreattrs, %i18n, %events --
  >
<!--
COLGROUP groups a set of COL elements. It allows you to group
several semantically related columns together.
-->
<!ATTLIST COLGROUP
  %attrs;                              -- %coreattrs, %i18n, %events --
  span        NUMBER         1         -- default number of columns in group --
  width       %MultiLength;  #IMPLIED  -- default width for enclosed COLs --
  %cellhalign;                         -- horizontal alignment in cells --
  %cellvalign;                         -- vertical alignment in cells --
  >
```

```
<!--
 COL elements define the alignment properties for cells in
 one or more columns.
 The WIDTH attribute specifies the width of the columns, e.g.
 width=64        width in screen pixels width=0.5*      relative width of 0.5
 The SPAN attribute causes the attributes of one
 COL element to apply to more than one column.
-->
<!ATTLIST COL                          -- column groups and properties --
  %attrs;                              -- %coreattrs, %i18n, %events --
  span        NUMBER         1         -- COL attributes affect N columns --
  width       %MultiLength;  #IMPLIED  -- column width specification --
  %cellhalign;                         -- horizontal alignment in cells --
  %cellvalign;                         -- vertical alignment in cells --
  >

<!--Use THEAD to duplicate headers when breaking tableacross page boundaries, or for static
headers whenTBODY sections are rendered in scrolling panel.

Use TFOOT to duplicate footers when breaking tableacross page boundaries, or for static
footers whenTBODY sections are rendered in scrolling panel.

Use multiple TBODY sections when rules are neededbetween groups of table rows.

-->

<!ATTLIST (THEAD|TBODY|TFOOT)          -- table section --
  %attrs;                              -- %coreattrs, %i18n, %events --
  %cellhalign;                         -- horizontal alignment in cells --
  %cellvalign;                         -- vertical alignment in cells --
  >
<!ATTLIST TR                           -- table row --
  %attrs;                              -- %coreattrs, %i18n, %events --
  %cellhalign;                         -- horizontal alignment in cells --
  %cellvalign;                         -- vertical alignment in cells -- >
<!-- Scope is simpler than headers attribute for common tables -->
<!ENTITY % Scope "(row|col|rowgroup|colgroup)">
<!-- TH is for headers, TD for data, but for cells acting as both use TD -->
<!ATTLIST (TH|TD)                      -- header or data cell --
  %attrs;                              -- %coreattrs, %i18n, %events --
  abbr        %Text;         #IMPLIED  -- abbreviation for header cell --
  axis        CDATA          #IMPLIED  -- comma-separated list of related headers--
  headers     IDREFS         #IMPLIED  -- list of id's for header cells --
  scope       %Scope;        #IMPLIED  -- scope covered by header cells --
  rowspan     NUMBER         1         -- number of rows spanned by cell --
  colspan     NUMBER         1         -- number of cols spanned by cell --
  %cellhalign;                         -- horizontal alignment in cells --
  %cellvalign;                         -- vertical alignment in cells -- >

<!--================ Document Head ========================================-->

<!-- %head.misc; defined earlier on as "SCRIPT|STYLE|META|LINK|OBJECT" -->
<!ENTITY % head.content "TITLE & BASE?">
<!ELEMENT HEAD O O (%head.content;) +(%head.misc;) -- document head -->
<!ATTLIST HEAD
  %i18n;                               -- lang, dir --
  profile     %URI;          #IMPLIED  -- named dictionary of meta info -- >
```

```
<!-- The TITLE element is not considered part of the flow of text.   It should be displayed,
for example as the page header or   window title. Exactly one title is required per
document.-->

<!ELEMENT TITLE - - (#PCDATA) -(%head.misc;) -- document title -->
<!ATTLIST TITLE %i18n>
<!ELEMENT BASE - O EMPTY               -- document base URI -->
<!ATTLIST BASE
  href        %URI;          #REQUIRED -- URI that acts as base URI -- >
<!ELEMENT META - O EMPTY               -- generic metainformation -->
<!ATTLIST META
  %i18n;                                -- lang, dir, for use with content --
  http-equiv  NAME           #IMPLIED  -- HTTP response header name  --
  name        NAME           #IMPLIED  -- metainformation name --
  content     CDATA          #REQUIRED -- associated information --
  scheme      CDATA          #IMPLIED  -- select form of content -- >
<!ELEMENT STYLE - - %StyleSheet        -- style info -->
<!ATTLIST STYLE
  %i18n;                                -- lang, dir, for use with title --
  type        %ContentType;  #REQUIRED -- content type of style language --
  media       %MediaDesc;    #IMPLIED  -- designed for use with these media --
  title       %Text;         #IMPLIED  -- advisory title -- >
<!ELEMENT SCRIPT - - %Script;          -- script statements -->
<!ATTLIST SCRIPT
  charset     %Charset;      #IMPLIED  -- char encoding of linked resource --
  type        %ContentType;  #REQUIRED -- content type of script language --
  src         %URI;          #IMPLIED  -- URI for an external script --
  defer       (defer)        #IMPLIED  -- UA may defer execution of script --
  event       CDATA          #IMPLIED  -- reserved for possible future use --
  for         %URI;          #IMPLIED  -- reserved for possible future use -- >
<!ELEMENT NOSCRIPT - - (%block;)+
  -- alternate content container for non script-based rendering -->
<!ATTLIST NOSCRIPT
  %attrs;                               -- %coreattrs, %i18n, %events -- >

<!--================ Document Structure ==================================-->

<!ENTITY % html.content "HEAD, BODY">
<!ELEMENT HTML O O (%html.content;)    -- document root element -->
<!ATTLIST HTML
  %i18n;                                -- lang, dir -- >
```