

DITA Technical Committee

Review C: Programming, software, and UI domains

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1 Programming domain

The programming domain elements are used to describe the syntax for programming languages.

1.1 <apiname>

An API name is the name of an application programming interface (API), such as a Java class name or method name.

Specialization hierarchy

The <apiname> element is specialized from <keyword>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <apiname> element can be used to identify the document.write method:

```
Use the <apiname>document.write</apiname> method to create text output in the dynamically constructed view.
```

1.2 <codeblock>

A code block is a set of lines from a program.

Rendering expectations

Processors *SHOULD* preserve line the breaks and spaces that are present in the content of a <codeblock> element.

The content of the <codeblock> element is typically rendered in a monospaced font.

Specialization hierarchy

The <codeblock> element is specialized from . It is defined in the programming domain module.

Attributes

The following attributes are available on this element: display attributes (33), universal attributes (28), and @xml:space (44).

Example

The following code sample shows how the <codeblock> element can be used to tag an excerpt from an XSLT stylesheet:

</codeblock>

For a sample of how this element can be combined with <coderef> to embed external code samples, see 1.4 coderef (4).

1.3 <codeph>

A code phrase is a small portion of source code, machine code, or text that is displayed in-line.

Rendering expectations

The content of the <codeph> element is typically rendered in a monospaced font.

Specialization hierarchy

The <codeph> element is specialized from <ph>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

In the following code sample, the <codeph> element identifies a code snippet. The code snippet will be rendered in-line in the paragraph.

```
The second line of the sample program code, <codeph>Do forever</codeph>, represents the start of a loop construct.
```

1.4 <coderef>

A code reference is the mechanism for referencing an external text file that contains program code.

Rendering expectations

When evaluated, the <coderef> element causes the target code to be displayed inline. If the target code contains non-XML characters such as '<' or '&', those characters need to be handled so that they can be displayed correctly by the final rendering engine.

Specialization hierarchy

The <coderef> element is specialized from <include>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: inclusion attributes (33), link-relationship attributes (33), universal attributes (28), and @keyref (38).

For this element, the @parse attribute has a default value of "text".

Example

In the following code sample, the <coderef> element references the content of the process-dita.xsl file. In the rendered output, the XSL code will be presented in a code block.

<example>

```
<title>Processing DITA</title>
This code is an example of how to process DITA.
<codeblock>
</coderef href="process-dita.xsl"/>
</codeblock>
</example>
```

1.5 <option>

The <option> element specifies a permitted value for a parameter or configuration.

Specialization hierarchy

The <option> element is specialized from <keyword>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

This section contains examples of how the <option> element can be used.

Figure 1: Parameter values

In the following code sample, the <option> element is used to specify permitted values for a parameter:

```
You can use the <parmname>map-order</parmname> parameter to specify
if the order of the frontmatter and backmatter content is retained. The allowed
values are <option>keep</option> and <option>trash</option>; the default value is
<option>trash</option>.
```

Figure 2: Configuration option

In the following code sample, the <option> element is used to specify an option that modifies a configuration:

```
You can purchase the <option>Sports Model</option> package in order
to configure your automobile with the latest sports suspension, bonnet stripes,
a roof spoiler and an aero body kit.
```

1.6 <parmname>

A parameter name is the name of a parameter that is passed to an API or a command-line interface (CLI).

Specialization hierarchy

The <parmname> element is specialized from <keyword>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <parmname> element can be used to identify a parameter that is used with the config command:

You can use the <parmname>-env</parmname> parameter of the <cmdname>config</cmdname>

command to update the field value.

1.7 <parml>

A parameter list is a specialized definition list that is designed for documenting parameters.

Specialization hierarchy

The <parml> element is specialized from <dl>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @compact (36).

Example

The following code sample shows how a set of sample code is followed by a parameter list that defines those parameters:

1.8 <plentry>

A parameter-list entry contains one or more parameter terms and definitions.

Specialization hierarchy

The <plentry> element is specialized from <dlentry>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28).

Example

See < parml > (6).

1.9 <pt>

A parameter term is a term that is defined in a parameter-list entry.

Specialization hierarchy

The <pt> element is specialized from <dt>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

See <parml>(6).

1.10 <pd>

A parameter definition is a definition of a term that is defined in a parameter-list entry.

Specialization hierarchy

The <pd> element is specialized from <dd>. It is defined in the programming domain module.

Attributes

The following attributes are available on this element: universal attributes (28).

Example

See < parml > (6).

2 Software domain

The software domain elements are used to describe the presentation and operation of a software program.

2.1 <cmdname>

A command name is the name of a software command.

Specialization hierarchy

The <cmdname> element is specialized from <keyword>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows a <cmdname> element that identifies the name of the rm command.

You can use the <cmdname>rm</cmdname> command to permanently delete an object.

2.2 <filepath>

A file path is the location of a resource, such as the system path and file name of a file on a storage device.

Rendering expectations

The content of the <filepath> element is typically rendered in a monospaced font.

Specialization hierarchy

The <filepath> element is specialized from <ph>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

In the following code sample, the <filepath> element is used to tag both file names and system paths:

```
Uncompress the <filepath>gbbrsh.gz</filepath> file to the
<filepath>/usr</filepath> directory. Ensure that the
<filepath>/usr/tools/data.cfg</filepath> path is listed in
the execution path system variable.
```

2.3 <msgblock>

A message block is a multi-line message or set of messages that is produced by an application or device.

Usage information

The <msgblock> element can contain multiple message numbers and message descriptions, each enclosed in <msgnum> and <msgph> elements. It can also contain the message content directly.

Rendering expectations

Processors SHOULD preserve the line breaks and spaces that are present in the content of a <msgblock> element.

The content of the <msgblock> element is typically rendered in a monospaced font.

Specialization hierarchy

The <msgblock> element is specialized from . It is defined in the software domain module.

Attributes

The following attributes are available on this element: display attributes (33), universal attributes (28), and @xml:space (44).

Example

The following code sample shows a <msgblock> element that contains a multi-line message that is returned by an application:

```
A sequence of failed password attempts generates the following message stream:
<msgblock>
I:0
S:3
I:1
S:3
I:1
S:4
S:99 (lockup)
</msgblock>
```

2.4 <msgnum>

A message number is the identifier of a message that is produced by an application or program.

Specialization hierarchy

The <msgnum> element is specialized from <keyword>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows a <msgnum> element that identifies the number of the message that is returned by an application:

A server log entry of <msgnum>I:0</msgnum> is equivalent to the

2.5 <msgph>

A message phrase is the text of a message that is produced by an application or program.

Specialization hierarchy

The <msgph> element is specialized from <ph>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <msgph> element can be used to tag a message that is returned by the server:

```
A server log entry of <msgnum>I:0</msgnum> is equivalent to the text message, <msgph>informational: successful</msgph>.
```

2.6 <systemoutput>

System output is content that a computer or device generates in response to a command or situation.

Specialization hierarchy

The <systemoutput> element is specialized from <ph>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

In the following code sample, the <systemoutput> element identifies an application response to user input:

```
After you type <userinput>mealplan dinner</userinput>, the meal planning program will print <systemoutput>For what day?</systemoutput>.
Reply by typing the day of the week for which you want a meal plan, for example, <userinput>Thursday</userinput>.
```

2.7 <userinput>

User input is text that a user enters, such as a response to an application or system prompt.

Specialization hierarchy

The <userinput> element is specialized from <ph>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

In the following code sample, the <userinput> element identifies text that a user should type at the command prompt:

```
From a DOS command prompt, type <userimput>dir</userimput> to view a list of files in the current directory.
```

2.8 <varname>

A variable name is a placeholder for content that might change based on how something is used, such as a variable supplied to a software application or a user-defined path in a command.

Rendering expectations

The content of the <varname> element is typically rendered in an italic font.

Specialization hierarchy

The <varname> element is specialized from <keyword>. It is defined in the software domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <varname> element is used to identify variables that represent the "installation directory," "project directory," and "file name":

```
<filepath>
<varname>install-dir</varname>/projects/working/<varname>project-dir</varname>
/source/<varname>filename</varname>.java
</filepath>
```

3 User interface domain

The user-interface domain elements are used to describe the graphical user interface of a software program.

3.1 <menucascade>

A menu cascade is a sequence of menu choices in a nested menu, such as File > New.

Rendering expectations

Processors SHOULD separate the contents of the <uicontrol> elements in some manner to represent the menu cascade. For example, a visual rendering could separate each UI control with an arrow character.

Specialization hierarchy

The <menucascade> element is specialized from <ph>. It is defined in the user-interface domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <menucascade> element can be used to identify a series of menu choices that enable users to switch to dark mode in an editor:

```
<menucascade>
  <uicontrol>View</uicontrol>
   <uicontrol>Editor layout</uicontrol>
   <uicontrol>Display mode</uicontrol>
   <uicontrol>Dark</uicontrol>
</menucascade>
```

3.2 <screen>

The <screen> element contains a textual representation of a terminal console or other text-based computer interface.

Rendering expectations

Processors SHOULD preserve the line breaks and spaces that are present in the content of a <screen> element.

The contents of the <screen> element is typically enclosed within a box to suggest a computer display screen. It also is typically rendered in a monospaced font.

Specialization hierarchy

The <screen> element is specialized from . It is defined in the user-interface domain module.

Attributes

The following attributes are available on this element: display attributes (33), universal attributes (28), and @xml:space (44).

Example

In the following code sample, the <screen> element is used to illustrate the steps needed to clone a git repository and check status:

```
<screen>
workspace $ git clone git@example.com:oasis-tcs/dita-techcomm.git
Cloning into 'dita-techcomm'...
remote: Enumerating objects: 1023, done.
remote: Counting objects: 100% (31/31), done.
remote: Compressing objects: 100% (23/23), done.
remote: Total 1023 (delta 6), reused 21 (delta 4), pack-reused 992
Receiving objects: 100% (1023/1023), 9.87 MiB | 729.00 KiB/s, done.
Resolving deltas: 100% (367/367), done.
workspace $ cd dita-techcomm
dita-techcomm $ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
dita-techcomm $
```

3.3 <shortcut>

A shortcut is a keyboard shortcut that can perform a menu or window action.

Rendering expectations

The contents of the <shortcut> element is typically underlined.

Specialization hierarchy

The <shortcut> element is specialized from <keyword>. It is defined in the user-interface domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

In the following code sample, the <shortcut> element identifies the keyboard shortcuts for navigating a menu to save a file:

```
<menucascade>
<uicontrol><shortcut>F</shortcut>ile</uicontrol>
<uicontrol><shortcut>S</shortcut>ave</uicontrol>
</menucascade>
```

3.4 <uicontrol>

A user interface control is a label for an item that allows a person or tool to control an interface, such as a button, field, menu item, or other object.

Usage information

The <uicontrol> element is also used inside a <menucascade> element to identify a sequence of menu choices in a nested menu, such as **File** > **New**.

Specialization hierarchy

The <uicontrol> element is specialized from <ph>. It is defined in the user-interface domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <uicontrol> element can be used to identify a button that a user is directed to press:

```
Press <uicontrol>OK</uicontrol> to continue.
```

3.5 <wintitle>

A window title is the name of a window or dialog.

Specialization hierarchy

The <wintitle> element is specialized from <keyword>. It is defined in the user-interface domain module.

Attributes

The following attributes are available on this element: universal attributes (28) and @keyref (38).

Example

The following code sample shows how the <wintitle> element can be used to tag the name of the "Configuration Options" window:

```
<step>
  <cmd>Click <uicontrol>Configure</uicontrol>.</cmd>
  <stepresult>The <wintitle>Configuration Options</wintitle> window
  opens with your last set of selections highlighted.</stepresult>
  </step>
```

A Aggregated RFC-2119 statements

This appendix contains all the normative statements from the DITA for Technical Content 2.0 specification. They are aggregated here for convenience in this non-normative appendix.

B Attributes

This section contains definitions for commonly-used attributes. If an attribute is defined differently on a specific element, that information is covered in the topic for the specific element.

Comment by Kristen J Eberlein on 29 December 2021

Add a brief overview of the fact that some specific attributes are overloaded – and have different meanings depending on what element they are specified upon.

Disposition: Unassigned

B.1 Attribute groups

Many of the attributes used on DITA elements are defined in attribute groups. These attribute groups are used both in the grammar files and the specification,

Architectural attributes

This group contains a set of attributes that are defined for document-level elements such as <topic> and <map>.

@DITAArchVersion (architectural attributes)

Specifies the version of the DITA architecture that is in use. This attribute is in the namespace http://dita.oasis-open.org/architecture/2005/. This attribute is specified in the topic and map modules, and it uses a default value of the current version of DITA. The current default is "2.0".

@specializations (architectural attributes)

Specifies the attribute-domain specializations that are included in the document-type shell. This attribute is set as a default within the document-type shell. The value varies depending on what domains are integrated into the document-type shell. For example, a grammar file that includes the specialized attributes @audience, @deliveryTarget, and @newBaseAtt would set the value to @props/audience @props/ deliveryTarget @base/newBaseAtt.

@xmlns:ditaarch (architectural attributes)

Declares the default DITA namespace. This namespace is declared as such in the RNG modules for <topic> and <map>, but it is specified as an attribute in the equivalent DTD-based modules. The value is fixed to "http://dita.oasis-open.org/architecture/2005/".

Common map attributes

This group contains attributes that are frequently used on map elements.

Comment by Kristen J Eberlein on 28 September 2022

I've added draft comments to the attribute definitions in this section that explain how the attribute is defined in the "DITA map attributes" topic.

Disposition: Unassigned

@cascade (common map attributes)

Specifies how metadata attributes cascade within a map. The specification defines the following values:

merge

Indicates that the metadata attributes cascade, and that the values of the metadata attributes are additive. This is the processing default for the @cascade attribute.

nomerge

Indicates that the metadata attributes cascade, but that they are not additive for <topicref> elements that specify a different value for a specific metadata attribute. If the cascading value for an attribute is already merged based on multiple ancestor elements, that merged value continues to cascade until a new value is encountered. That is, setting cascade="nomerge" does not undo merging that took place on ancestor elements.

Processors can also define custom, implementation-specific tokens for this attribute.

See Cascading of metadata attributes in a DITA map for more information about how this attribute interacts with metadata attributes.

@chunk (common map attributes)

Specifies how a processor should render a map or branch of a map. For example, it can be used to specify that individual topic documents should be rendered as a single document, or that a single document with multiple topics should be rendered as multiple documents.

The following values are valid:

combine

Instructs a processor to combine the referenced source documents for rendering purposes. This is intended for cases where a publishing process normally results in a single output artifact for each source XML document.

split

Instructs a processor to split each topic from the referenced source document into its own document for rendering purposes. This is intended for cases where a publishing process normally results in a single output artifact for each source XML document, regardless of how many DITA topics exist within each source document.

Processors can also define custom, implementation-specific tokens for this attribute.

For a detailed description of the Ochunk attribute and its usage, see Chunking.

@collection-type (common map attributes)

Specifies how topics or links relate to each other. The processing default is "unordered", although no default is specified in the OASIS-provided grammar files. The following values are valid:

unordered

Indicates that the order of the child topics is not significant.

sequence

Indicates that the order of the child topics is significant. Output processors will typically link between them in order.

choice

Indicates that one of the children should be selected.

family

Indicates a tight grouping in which each of the referenced topics not only relates to the current topic but also relate to each other.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@collection-type

The @collection-type attribute specifies how the children of a <topicref> element relate to their parent and to each other. This attribute, which is set on the parent element, typically is used by processors to determine how to generate navigation links in the rendered topics. For example, a @collection-type value of "sequence" indicates that children of the specifying <topicref> element represent an ordered sequence of topics; processors might add numbers to the list of child topics or generate next/previous links for online presentation. This attribute is available in topics on the <linklist> and <linkpool> elements, where it has the same behavior. Where the @collection-type attribute is available on elements that cannot directly contain elements, the behavior of the attribute is undefined.

Disposition: Unassigned

Comment by Kristen J Eberlein on 28 September 2022

In the definitions of the supported values, do we want to refer to "resources" instead of "topics"? Since we specify that @collection-type specifies "how topics or links relate to each other" ...

Disposition: Unassigned

@keyscope (common map attributes)

Specifies that the element marks the boundaries of a key scope.

See B.4 STUB CONTENT (44) for information on using this attribute.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@keyscope

Defines a new scope for key definition and resolution, and gives the scope one or more names. For more information about key scopes, see Indirect key-based addressing.

Disposition: Unassigned

@linking (common map attributes)

Specifies linking characteristics of a topic specific to the location of this reference in a map. If the value is not specified locally, the value might cascade from another element in the map (for cascade rules, see Cascading of metadata attributes in a DITA map).

Comment by robander on Dec 28 2021

The text below matches 1.3 spec text but I'm nervous about "cannot link" type definition. It's describing how to generate links based on the current context in the map - it's not describing what the topic itself is allowed to link to, which is how I interpret "can".

Disposition: Unassigned

The following values are valid:

targetonly

A topic can only be linked to and cannot link to other topics.

sourceonly

A topic cannot be linked to but can link to other topics.

normal

A topic can be linked to and can link to other topics. Use this to override the linking value of a parent topic.

none

A topic cannot be linked to or link to other topics.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@linking

By default, the relationships between the topics that are referenced in a map are reciprocal:

- Child topics link to parent topics and vice versa.
- Next and previous topics in a sequence link to each other.
- Topics in a family link to their sibling topics.
- Topics referenced in the table cells of the same row in a relationship table link to each other. A topic referenced within a table cell does not (by default) link to other topics referenced in the same table cell.

This behavior can be modified by using the @linking attribute, which enables an author or information architect to specify how a topic participates in a relationship. The following values are valid:

linking="none"

Specifies that the topic does not exist in the map for the purposes of calculating links.

linking="sourceonly"

Specifies that the topic will link to its related topics but not vice versa.

linking="targetonly"

Specifies that the related topics will link to it but not vice versa.

linking="normal"

Default value. It specifies that linking will be reciprocal (the topic will link to related topics, and they will link back to it).

Authors also can create links directly in a topic by using the cases or <link> elements, but in most cases map-based linking is preferable, because links in topics create dependencies between topics that can hinder reuse.

Note that while the relationships between the topics that are referenced in a map are reciprocal, the relationships merely *imply* reciprocal links in generated output that includes links. The rendered navigation links are a function of the presentation style that is determined by the processor.

Disposition: Unassigned

@processing-role (common map attributes)

Specifies whether the referenced resource is processed normally or treated as a resource that is only included in order to resolve references, such as key or content references. The following values are valid:

normal

Indicates that the resource is a readable part of the information set. It is included in navigation and search results. This is the default value for the <topicref>element.

resource-only

Indicates that the resource should be used only for processing purposes. It is not included in navigation or search results, nor is it rendered as a topic. This is the default value for the <keydef> element.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

If no value is specified but the attribute is specified on a containing element within a map or within the relatedlinks section, the value cascades from the closest containing element.

@search (common map attributes)

Specifies whether the target is available for searching. If the value is not specified locally, the value might cascade from another element in the map (for cascade rules, see Cascading of metadata attributes in a DITA map). The following values are valid: "yes", "no", and "-dita-use-conref-target".

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@search

Specifies whether the topic is included in search indexes.

Disposition: Unassigned

@subjectrefs (common map attributes)

Specifies one or more keys that are each defined by a subject definition in a subject scheme map. Multiple values are separated by white space.

@toc (common map attributes)

Specifies whether a topic appears in the table of contents (TOC) based on the current map context. If the value is not specified locally, the value might cascade from another element in the map (for cascade rules, see Cascading of metadata attributes in a DITA map). The following values are valid:

yes

The topic appears in a generated TOC.

no

The topic does not appear in a generated TOC.

-dita-use-conref-target

See **B.4 STUB CONTENT** (44) for more information.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@toc

Specifies whether topics are excluded from navigation output, such as a Web site map or an online table of contents. By default, <topicref> hierarchies are included in navigation output; relationship tables are excluded.

Disposition: Unassigned

Complex table attributes

This group includes attributes that are defined on complex table elements. Unless other noted, these attributes are part of the OASIS Exchange Table Model. Complex table elements typically use only a subset of the attributes that are defined in this group.

@align (complex table attributes)

Specifies the horizontal alignment of text in table entries. The following values are valid:

left

Indicates left alignment of the text.

right

Indicates right alignment of the text.

center

Indicates center alignment of the text.

justify

Justifies the contents to both the left and the right.

char

Indicates character alignment. The text is aligned with the first occurrence of the character specified by the @char attribute.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

The Galign attribute is available on the following table elements: <colspec>, <entry>, and <tgroup>.

@char (complex table attributes)

Specifies the alignment character, which is the character that is used for aligning the text in table entries. This attribute applies when align="char". A value of "" (the null string) means there is no aligning character.

For example, if align="char" and char="." are specified, then text in the table entry aligns with the first occurrence of the period within the entry. This might be useful if decimal alignment is required.

The @char attribute is available on the following table elements: <colspec> and <entry>.

@charoff (complex table attributes)

Specifies the horizontal offset of the alignment character that is specified by the @char attribute. The value is a greater-than-zero number that is less than or equal to 100. It represents the percentage of the current column width by which the text is offset to the left of the alignment character.

For example, if align="char", char=".", and charoff="50" are all specified, then text in the table entry is aligned 50% of the distance to the left of the first occurrence of the period character within the table entry.

The @charoff attribute is available on the following table elements: <colspec> and <entry>.

@colsep (complex table attributes)

Specifies whether to render column separators between table entries. The following values are valid: "0" (no separators) and "1" (separators).

The @colsep attribute is available on the following table elements: <colspec>, <entry>, , and <tgroup>.

@rowheader (complex table attributes)

Specifies whether the entries in the respective column are row headers. The following values are valid:

firstcol

Indicates that entries in the first column of the table are row headers. This applies when the @rowheader attribute is specified on the element.

headers

Indicates that entries of the column that is described using the <colspec> element are row headers. This applies when the @rowheader attribute is specified on the <colspec> element.

norowheader

Indicates that entries in the first column are not row headers. This applies when the @rowheader attribute is specified on the element.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Note This attribute is not part of the OASIS Exchange Table Model upon which DITA tables are based. Some processors or output formats might not support all values.

The @rowheader attribute is available on the following table elements: and <colspec>.

@rowsep (complex table attributes)

Specifies whether to render row separators between table entries. The following values are valid: "0" (no separators) and "1" (separators).

The @rowsep attribute is available on the following table elements: <colspec>, <entry>, <row>, , and <tgroup>.

@valign (complex table attributes)

Specifies the vertical alignment of text in table entries. The following values are valid:

bottom

Indicates that text is aligned with the bottom of the table entry.

middle

Indicates that text is aligned with the middle of the table entry.

top

Indicates that text is aligned with the top of the table entry.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

The <code>@valign</code> attribute is available on the following table elements: <entry>, , <thead>, and <row>.

Data-element attributes

This group contains attributes that are defined on the <data> element and its specializations.

@datatype (data-element attributes)

Specifies the type of data contained in the <code>@value</code> attribute or within the <code><data></code> element. A typical use of <code>@datatype</code> will be the identifying URI for an XML Schema datatype.

@name (data-element attributes)

Defines a unique name for the object.

Comment by robander

Do we need to specify the scope of "unique" here? **Disposition: Unassigned**

@value (data-element attributes)

Specifies a value associated with the current property or element.

Date attributes

This group contains attributes that take date values. They are defined on metadata elements that work with date information:

@expiry (date attributes)

Specifies the date when the information should be retired or refreshed. The date is specified using the ISO 8601 format: *YYYY-MM-DD*, where *YYYY* is the year, *MM* is the month (01 to 12), and *DD* is the day (01-31).

@golive (date attributes)

Specifies the publication or general availability (GA) date. The date is specified using the ISO 8601 format: *YYYY-MM-DD*, where *YYYY* is the year, *MM* is the month (01 to 12), and *DD* is the day (01-31).

Display attributes

This group contains attributes that affect the rendering of many elements.

@expanse (display attributes)

Specifies the horizontal placement of the element. The following values are valid:

column

Indicates that the element is aligned with the current column margin.

page

Indicates that the element is placed on the left page margin for left-to-right presentation or the right page margin for right-to-left presentation.

spread

Indicates that the object is rendered across a multi-page spread. If the output format does not have anything that corresponds to spreads, then "spread" has the same meaning as "page".

textline

Indicates that the element is aligned with the left (for left-to-right presentation) or right (for right-to-left presentation) margin of the current text line and takes indentation into account.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

For , in place of the @expanse attribute that is used by other DITA elements, the @pgwide attribute is used in order to conform to the OASIS Exchange Table Model.

Some processors or output formats might not support all values.

@frame (display attributes)

Specifies which portion of a border surrounds the element. The following values are valid:

all

Indicates that a line is rendered at the top, bottom, left, and right of the containing element.

bottom

Indicates that a line is rendered at the bottom of the containing element.

none

Indicates that no lines are rendered.

sides

Indicates that a line is rendered at the left and right of the containing element.

top

Indicates that a line is rendered at the top of the containing element.

topbot

Indicates that a line is rendered at the top and bottom of the containing element.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Some processors or output formats might not support all values.

@scale (display attributes)

Specifies the percentage by which fonts are resized in relation to the normal text size. The value of this attribute is a positive integer. When used on or <simpletable>, the following values are valid: "50", "60", "70", "80", "90", "100", "110", "120", "140", "160", "180", "200", and -dita-use-conref-target (44).

This attribute is primarily useful for print-oriented display. Some processors might not support all values.

If the @scale attribute is specified on an element that contains an image, the image is not scaled. The image is scaled **only** if a scaling property is explicitly specified for the <image> element.

ID and conref attributes

This group contains the attributes that enable the naming and referencing of elements.

@conaction

Specifies how the element content will be pushed into a new location. The following values are valid:

mark

The element acts as a marker when pushing content before or after the target, to help ensure that the push action is valid. The element with conaction="mark" also specifies the target of the push action with @conref. Content inside of the element with conaction="mark" is not pushed to the new location.

pushafter

Content from this element is pushed after the location specified by @conref on the element with conaction="mark". The element with conaction="pushafter" is the first sibling element after the element with conaction="mark".

pushbefore

Content from this element is pushed before the location specified by @conref on the element with conaction="mark". The element with conaction="pushbefore" is the first sibling element before the element with conaction="mark".

pushreplace

Content from this element replaces any content from the element referenced by the @conref attribute. A second element with conaction="mark" is not used when using conaction="pushreplace".

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

See B.4 STUB CONTENT (44) for examples and details about the syntax.

@conkeyref

Specifies a key name or a key name with an element ID that acts as an indirect reference to reusable content. The referenced content is used in place of the content of the current element. See B.4 STUB CONTENT (44) for more details about the syntax and behaviors.

@conref

Specifies a URI that references a DITA element. The referenced content is used in place of the content of the current element. See B.4 STUB CONTENT (44) for examples and details about the syntax.

@conrefend

Specifies a URI that references the last element in a sequence of elements, with the first element of the sequence specified by @conref. The referenced sequence of elements is used in place of the content of the current element. See B.4 STUB CONTENT (44) for examples and details about the syntax.

@id

Specifies an identifier for the current element. This ID is the target for references by @href and @conref attributes and for external applications that refer to DITA or LwDITA content. This attribute is defined with the XML data type NMTOKEN, except where noted for specific elements within the language reference.

See id attribute for more details.

Inclusion attributes

This group includes attributes defined on <include> and its specializations:

Comment by Kristen J Eberlein on 28 September 2002

What is specialized from <include>? Both base (if any) and technical content ...

Disposition: Unassigned

@encoding (inclusion attributes)

Comment by Kristen J Eberlein on 29 April 2019

Can we replace "should" in the following definition?

Disposition: Unassigned

Specifies the character encoding to use when translating the character data from the referenced content. The value should be a valid encoding name. If not specified, processors may make attempts to automatically determine the correct encoding, for example using HTTP headers, through analysis of the binary structure of the referenced data, or the <?xml?> processing instruction when including XML as text. The resource should be treated as UTF-8 if no other encoding information can be determined.

When parse="xml", standard XML parsing rules apply for the detection of character encoding. The necessity and uses of @encoding for non-standard values of @parse are implementation-dependent.

@parse (inclusion attributes)

Specifies the processing expectations for the referenced resource. Processors must support the following values:

text

The contents should be treated as plain text. Reserved XML characters should be displayed, and not interpreted as XML markup.

xml

The contents of the referenced resource should be treated as an XML document, and the referenced element should be inserted at the location of the <include> element. If a fragment identifier is included in the address of the content, processors must select the element with the specified ID. If no fragment identifier is included, the root element of the referenced XML document is selected. Any grammar processing should be performed during resolution, such that default attribute values are explicitly populated. Prolog content must be discarded.

It is an error to use parse="xml" anywhere other than within <foreign> or a specialization thereof.

Processors may support other values for the <code>@parse</code> attribute with proprietary processing semantics. Processors should issue warnings and use <fallback> when they encounter unsupported <code>@parse</code> values. Non-standard <code>@parse</code> instructions should be expressed as URIs.

Note Proprietary @parse values will likely limit the portability and interoperability of DITA content, so should be used with care.

Link relationship attributes

This group contains attributes whose values can be used for representing navigational relationships.

@format (link-relationship attributes)

Specifies the format of the resource that is referenced. See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@href (link-relationship attributes)

Specifies a reference to a resource. See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@scope (link-relationship attributes)

Specifies the closeness of the relationship between the current document and the referenced resource. The following values are valid: "local", "peer", "external", and "-dita-use-conref-target".

See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@type (link-relationship attributes)

Describes the target of a reference. See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

Localization attributes

Comment by Kristen J Eberlein on 29 September 2022

The definition of the localizations attribute matches how they are described in the architectural topics. Wherever possible, the definition is reused. Where it is not reused (because the definition in the archSpec topics is in a shortdesc), I've checked to ensure that wording is identical.

Disposition: Unassigned

This group contains the attributes that are related to translation and localization.

@dir

Identifies or overrides the text directionality. The following values are valid:

lro

Indicates an override of the Unicode Bidirectional Algorithm, forcing the element into left-to-right mode.

ltr

Indicates left-to-right.

rlo

Indicates an override of the Unicode Bidirectional Algorithm, forcing the element into right-to-left mode.

rtl

Indicates right-to-left.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

See The dir attribute for more information.

@translate

Specifies whether the content of the element should be translated. The following values are valid: "yes", "no", and "-dita-use-conref-target".

See Element-by-element recommendations for translators for suggested processing defaults for each element.

Comment by Kristen J Eberlein on 31 December 2021

Does Element-by-element recommendations for translators really provide suggested processing defaults for each element? I thought it covered whether an element was block or in-line and whether there were considerations that translators needed to be aware of.

Disposition: Unassigned

@xml:lang

Specifies the language and optional locale of the content that is contained in an element. Valid values are language tokens or the null string. The <code>@xml:lang</code> attribute and its values are described in the Extensible Markup Language 1.0 specification, fifth edition.

Comment by Kristen J Eberlein on 29 September 2022

Do we also want to direct readers to the architectural topics about the @xml:lang attribute?

Disposition: Unassigned

Metadata attributes

This group contains common metadata attributes: @base, @importance, @props, @rev, and @status. The @base and @props attributes can be specialized.

@base

Specifies metadata about the element. It is often used as a base for specialized attributes that have a simple syntax for values, but which are not conditional processing attributes.

The @base attribute takes a space-delimited set of values. However, when serving as a container for generalized attributes, the attribute values will be more complex. See Attribute generalization for more details.

@importance

Specifies the importance or priority that is assigned to an element. The following values are valid: "default", "deprecated", "high", "low", "normal", "obsolete", "optional", "recommended", "required", "urgent", and "-ditause-conref-target". This attribute is not used for conditional processing, although applications might use the value of the @importance attribute to highlight elements. For example, in steps of a task topic, the value of the @importance attribute indicates whether a step is optional or required.

Comment by Kristen J Eberlein on 29 September 2022

I think the phrase "to highlight elements" is a little off. Maybe "render generated text"? And how about adding "Processors often add text or images to ensure that readers of the generated content understand whether the step is optional or required." to the end of the example?

Disposition: Unassigned

@props

Specifies metadata about the element. New attributes can be specialized from the <code>@props</code> attribute. This attribute supports conditional processing. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

The <code>@props</code> attribute takes a space-delimited set of values. However, when serving as a container for generalized attributes, the attribute values will be more complex. See Attribute generalization for more details.

@rev

Specifies a revision level of an element that identifies when the element was added or modified. It can be used to flag outputs when it matches a run-time parameter. It cannot be used for filtering nor is it sufficient to be used for version control. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

Comment by Kristen J Eberlein on 29 September 2022

I want to tweak this. How about the following? Also, neither definition describes what values are permitted.

Specifies metadata that identifies when the element was added or the content of the element was modified. The @rev attribute can be used for flagging. It cannot be used for filtering nor is it sufficient to be used for version control. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

Disposition: Unassigned

@status

Specifies the modification status of the element. The following values are valid: "new", "changed", "deleted", "unchanged", and "-dita-use-conref-target".

Simple table attributes

This group includes attributes that are defined only on the <simpletable> element: @keycol and @relcolwidth. These attributes are listed in a group because the <simpletable> element is frequently used as a specialization base.

@keycol (simpletable attributes)

Specifies the column that contains the content that represents the key to the tabular structure. If <code>@keycol</code> is present and assigned a numerical value, the specified column is treated as a vertical header.

@relcolwidth (simpletable attributes)

Specifies the width of each column in relationship to the width of the other columns. The value is a spaceseparated list of relative column widths. Each column width is specified as a positive integer or decimal number followed by an asterisk character.

For example, the value relcolwidth="1* 2* 3*" gives a total of 6 units across three columns. The relative widths are 1/6, 2/6, and 3/6 (16.7%, 33.3%, and 50%). Similarly, the value relcolwidth="90* 150*" causes relative widths of 90/240 and 150/240 (37.5% and 62.5%).

Table accessibility attributes

This group defines a set of attributes that promote table accessibility:

@headers

Specifies which entries in the current table provide headers for this cell. The @headers attribute contains an unordered set of unique, space-separated tokens, each of which is an ID reference of an entry from the same table.

@scope

Specifies that the current entry is a header for other table entries. The following values are valid:

col

Indicates that the current entry is a header for all cells in the column.

colgroup

Indicates that the current entry is a header for all cells in the columns that are spanned by this entry.

row

Indicates that the current entry is a header for all cells in the row.

rowgroup

Indicates that the current entry is a header for all cells in the rows that are spanned by this entry.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Universal attributes

This group defines a set of attributes that are available on almost all DITA elements. It includes all elements in the ID, localization, and metadata attribute groups, as well as the following attributes:

@class (not for use by authors)

This attribute is not for use by authors. If an editor displays @class attribute values, do not edit them. Specifies a default value that defines the specialization ancestry of the element. Its predefined values allow DITA tools to work correctly with specialized elements. In a generalized DITA document the @class attribute value in the generalized instance might differ from the default value for the @class attribute for the element as given in the DTD or schema. See The class attribute rules and syntax for more information. This attribute is specified on every element except for the <dita> container element. It is always specified with a default value, which varies for each element.

@outputclass

Specifies a role that the element is playing. The role must be consistent with the basic semantic and expectations for the element. In particular, the @outputclass attribute can be used for styling during output processing; HTML output will typically preserve @outputclass for CSS processing.

Comment by robander

I don't like "The role must be consistent...", that seems like best practice that cannot be normative – and I could easily say outputclass="flashy" which makes my element show up with sparkles, and has nothing to do with "the basic semantic and expectations for the element".

Disposition: Unassigned

B.2 Universal attribute group

The universal attribute group defines a set of common attributes that are available on almost every DITA element. The universal attribute group includes all attributes from the ID, localization, and metadata attribute groups, plus the @class and @outputclass attributes.

Comment by Kristen J Eberlein on 29 December 2021

This is something wrong with the organizational structure of this topic ... Look at it in outline form, and check that the sections, titles, and content all make logical sense with the topic title of "Universal attribute group".

Disposition: Unassigned

Common attribute groups

The following attribute groups are referenced in this specification. They are also used in the grammar files when the element attributes are defined.

Universal attributes

Includes @class and @outputclass, along with every attribute in the ID, localization, and metadata attribute groups.

ID attributes

This group includes the attributes that enable the naming and referencing of elements: @conaction, @conkeyref, @conref, @conrefend, and @id.

Localization attributes

This group includes attributes that are related to translation and localization: @dir,@translate, and @xml:lang.

Metadata attributes

Comment by Kristen J Eberlein on 31 December 2021

Why do we need to mention that two attributes are available for specialization here? I think it makes the paragraph hard to read.

Disposition: Unassigned

This group includes common metadata attributes, two of which are available for specialization: @base, @importance, @props, @rev, and @status.

The base DITA vocabulary from OASIS includes several specializations of <code>@props:@audience</code>, <code>@deliveryTarget</code>, <code>@otherprops</code>, <code>@platform</code>, and <code>@product</code>. These attributes are defined as attribute-extension domains. By default, they are integrated into all OASIS-provided document-type shells, but they can be made unavailable by implementing custom document-type shells.

Comment by Kristen J Eberlein on 29 December 2021

Why do we provide information about specialization and custom document-type shells here? I think that information could be removed.

Disposition: Unassigned

Universal attribute definitions

The universal attributes for OASIS DITA elements are defined below. Specialized attributes, which are part of the OASIS distribution but are only available when explicitly included in a shell, are noted in the list.

@audience (specialized attribute)

Indicates the intended audience for the element. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

@base

Specifies metadata about the element. It is often used as a base for specialized attributes that have a simple syntax for values, but which are not conditional processing attributes.

The @base attribute takes a space-delimited set of values. However, when serving as a container for generalized attributes, the attribute values will be more complex. See Attribute generalization for more details.

@class (not for use by authors)

This attribute is not for use by authors. If an editor displays @class attribute values, do not edit them. Specifies a default value that defines the specialization ancestry of the element. Its predefined values allow DITA tools to work correctly with specialized elements. In a generalized DITA document the @class attribute value in the generalized instance might differ from the default value for the @class attribute for the element as given in the DTD or schema. See The class attribute rules and syntax for more information. This attribute is specified on every element except for the <dita> container element. It is always specified with a default value, which varies for each element.

@conaction

Specifies how the element content will be pushed into a new location. The following values are valid:

mark

The element acts as a marker when pushing content before or after the target, to help ensure that the push action is valid. The element with conaction="mark" also specifies the target of the push action with @conref. Content inside of the element with conaction="mark" is not pushed to the new location.

pushafter

Content from this element is pushed after the location specified by @conref on the element with conaction="mark". The element with conaction="pushafter" is the first sibling element after the element with conaction="mark".

pushbefore

Content from this element is pushed before the location specified by @conref on the element with conaction="mark". The element with conaction="pushbefore" is the first sibling element before the element with conaction="mark".

pushreplace

Content from this element replaces any content from the element referenced by the @conref attribute. A second element with conaction="mark" is not used when using conaction="pushreplace".

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

See B.4 STUB CONTENT (44) for examples and details about the syntax.

@conkeyref

Specifies a key name or a key name with an element ID that acts as an indirect reference to reusable content. The referenced content is used in place of the content of the current element. See B.4 STUB CONTENT (44) for more details about the syntax and behaviors.

@conref

Specifies a URI that references a DITA element. The referenced content is used in place of the content of the current element. See B.4 STUB CONTENT (44) for examples and details about the syntax.

@conrefend

Specifies a URI that references the last element in a sequence of elements, with the first element of the sequence specified by @conref. The referenced sequence of elements is used in place of the content of the current element. See B.4 STUB CONTENT (44) for examples and details about the syntax.

@deliveryTarget (specialized attribute)

Specifies the intended delivery target of the content, for example, "html", "pdf", or "epub". If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

@dir

Identifies or overrides the text directionality. The following values are valid:

lro

Indicates an override of the Unicode Bidirectional Algorithm, forcing the element into left-to-right mode.

ltr

Indicates left-to-right.

rlo

Indicates an override of the Unicode Bidirectional Algorithm, forcing the element into right-to-left mode.

rtl

Indicates right-to-left.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

See The dir attribute for more information.

@id

Specifies an identifier for the current element. This ID is the target for references by @href and @conref attributes and for external applications that refer to DITA or LwDITA content. This attribute is defined with the XML data type NMTOKEN, except where noted for specific elements within the language reference.

See id attribute for more details.

@importance

Specifies the importance or priority that is assigned to an element. The following values are valid: "default", "deprecated", "high", "low", "normal", "obsolete", "optional", "recommended", "required", "urgent", and "-ditause-conref-target". This attribute is not used for conditional processing, although applications might use the value of the @importance attribute to highlight elements. For example, in steps of a task topic, the value of the @importance attribute indicates whether a step is optional or required.

Comment by Kristen J Eberlein on 29 September 2022

I think the phrase "to highlight elements" is a little off. Maybe "render generated text"? And how about adding "Processors often add text or images to ensure that readers of the generated content understand whether the step is optional or required." to the end of the example?

Disposition: Unassigned

@otherprops (specialized attribute)

Specifies a property or properties that provide selection criteria for the element. Alternatively, the <code>@props</code> attribute can be specialized to provide a new metadata attribute instead of using the general <code>@otherprops</code> attribute. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

@outputclass

Specifies a role that the element is playing. The role must be consistent with the basic semantic and expectations for the element. In particular, the @outputclass attribute can be used for styling during output processing; HTML output will typically preserve @outputclass for CSS processing.

Comment by robander

I don't like "The role must be consistent...", that seems like best practice that cannot be normative – and I could easily say outputclass="flashy" which makes my element show up with sparkles, and has nothing to do with "the basic semantic and expectations for the element". **Disposition: Unassigned**

@platform (specialized attribute)

Indicates operating system and hardware. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

Comment by robander

I think this could specify a platform that is not an operating system or hardware, right? The current definition explicitly limits platform to those two ... maybe "Specifies a platform or platforms to which the element applies, such as the operating system or hardware relevant to a task." **Disposition: Unassigned**

@product (specialized attribute)

Specifies the name of the product to which the element applies. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

@props

Specifies metadata about the element. New attributes can be specialized from the <code>@props</code> attribute. This attribute supports conditional processing. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

The <code>@props</code> attribute takes a space-delimited set of values. However, when serving as a container for generalized attributes, the attribute values will be more complex. See Attribute generalization for more details.

@rev

Specifies a revision level of an element that identifies when the element was added or modified. It can be used to flag outputs when it matches a run-time parameter. It cannot be used for filtering nor is it sufficient to be used for version control. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

Comment by Kristen J Eberlein on 29 September 2022

I want to tweak this. How about the following? Also, neither definition describes what values are permitted.

Specifies metadata that identifies when the element was added or the content of the element was modified. The @rev attribute can be used for flagging. It cannot be used for filtering nor is it sufficient to be used for version control. If no value is specified but the attribute is specified on a containing element within a map or within the related-links section, the value cascades from the closest containing element.

Disposition: Unassigned

@status

Specifies the modification status of the element. The following values are valid: "new", "changed", "deleted", "unchanged", and "-dita-use-conref-target".

@translate

Specifies whether the content of the element should be translated. The following values are valid: "yes", "no", and "-dita-use-conref-target".

See Element-by-element recommendations for translators for suggested processing defaults for each element.

Comment by Kristen J Eberlein on 31 December 2021

Does Element-by-element recommendations for translators really provide suggested processing defaults for each element? I thought it covered whether an element was block or in-line and whether there were considerations that translators needed to be aware of.

Disposition: Unassigned

@xml:lang

Specifies the language and optional locale of the content that is contained in an element. Valid values are language tokens or the null string. The <code>@xml:lang</code> attribute and its values are described in the Extensible Markup Language 1.0 specification, fifth edition.

Comment by Kristen J Eberlein on 29 September 2022

Do we also want to direct readers to the architectural topics about the @xml:lang attribute?

Disposition: Unassigned

B.3 Common attributes

The common attributes topic collects defines most of the attributes that are used on more than one base element.

Common attribute groups

The following groups are referenced in this specification, and they are also used in grammar files when defining attributes for elements.

Architectural attributes

This group includes a set of attributes that are defined for document-level elements such as <topic> and <map>: @DITAArchVersion, @specializations, and @xmlns:ditaarch.

Common map attributes

```
This group includes attributes that are frequently used on map elements: @cascade, @chunk, @collection-type, @keyscope, @linking, @processing-role, @search, @toc, and @subjectrefs.
```

Complex table attributes

This group includes attributes that are defined on table elements but not simple table elements. These attributes are part of the OASIS Exchange Table Model, unless otherwise noted. Table elements generally use only a subset of the attributes that are defined in this group. This group contains the following attributes: @align, @char,@charoff,@colsep,@rowheader,@rowsep, and@valign.

Data-element attributes

Includes attributes defined on <data> and its many specializations: @datatype, @name, and @value

Date attributes

Includes attributes that take date values, and are defined on metadata elements that work with date information: @expiry and @golive

Display attributes

This group includes attributes that affect the rendering of many elements: @expanse, @frame, and @scale.

Inclusion attributes

Includes attributes defined on <include> and its specializations: @encoding and @parse.

Link-relationship attributes

This group includes attributes whose values can be used for representing navigational relationships: @format, @href,@type, and @scope.

Simple table attributes

Comment by Kristen J Eberlein on 29 December 2021

If I have jumped to this place in a document from the element-reference topic, I want the attributes listed here in the "Simple table group" to be hyperlinked to the actual definition.

Disposition: Unassigned

This group includes attributes that are defined only on the <simpletable> element: @keycol and @relcolwidth. These attributes are listed in a group because the <simpletable> element is frequently used as a specialization base.

Table accessibility attributes

This group contains attributes that are defined on the <stentry> element and its specializations: @headers (38) and @scope (as defined on <stentry>) (42).

Other attributes (not in a group)

These are attributes that are used in the same way on more than one base element, but they are not formally grouped together: @compact, @duplicates, @impose-role, @otherrole, @role, and @title-role.

Common attribute definitions

Common attributes, including those in the groups listed above, are defined as follows.

@align (complex table attributes)

Specifies the horizontal alignment of text in table entries. The following values are valid:

left

Indicates left alignment of the text.

right

Indicates right alignment of the text.

center

Indicates center alignment of the text.

justify

Justifies the contents to both the left and the right.

char

Indicates character alignment. The text is aligned with the first occurrence of the character specified by the @char attribute.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

The Galign attribute is available on the following table elements: <colspec>, <entry>, and <tgroup>.

@cascade (common map attributes)

Specifies how metadata attributes cascade within a map. The specification defines the following values:

merge

Indicates that the metadata attributes cascade, and that the values of the metadata attributes are additive. This is the processing default for the @cascade attribute.

nomerge

Indicates that the metadata attributes cascade, but that they are not additive for <topicref> elements that specify a different value for a specific metadata attribute. If the cascading value for an attribute is already merged based on multiple ancestor elements, that merged value continues to cascade until a new value is encountered. That is, setting cascade="nomerge" does not undo merging that took place on ancestor elements.

Processors can also define custom, implementation-specific tokens for this attribute.

See Cascading of metadata attributes in a DITA map for more information about how this attribute interacts with metadata attributes.

@char (complex table attributes)

Specifies the alignment character, which is the character that is used for aligning the text in table entries. This attribute applies when align="char". A value of "" (the null string) means there is no aligning character.

For example, if align="char" and char="." are specified, then text in the table entry aligns with the first occurrence of the period within the entry. This might be useful if decimal alignment is required.

The @char attribute is available on the following table elements: <colspec> and <entry>.

@charoff (complex table attributes)

Specifies the horizontal offset of the alignment character that is specified by the @char attribute. The value is a greater-than-zero number that is less than or equal to 100. It represents the percentage of the current column width by which the text is offset to the left of the alignment character.

For example, if align="char", char=".", and charoff="50" are all specified, then text in the table entry is aligned 50% of the distance to the left of the first occurrence of the period character within the table entry.

The @charoff attribute is available on the following table elements: <colspec> and <entry>.

@chunk (common map attributes)

Specifies how a processor should render a map or branch of a map. For example, it can be used to specify that individual topic documents should be rendered as a single document, or that a single document with multiple topics should be rendered as multiple documents.

The following values are valid:

combine

Instructs a processor to combine the referenced source documents for rendering purposes. This is intended for cases where a publishing process normally results in a single output artifact for each source XML document.

split

Instructs a processor to split each topic from the referenced source document into its own document for rendering purposes. This is intended for cases where a publishing process normally results in a single output artifact for each source XML document, regardless of how many DITA topics exist within each source document.

Processors can also define custom, implementation-specific tokens for this attribute.

For a detailed description of the Ochunk attribute and its usage, see Chunking.

@collection-type (common map attributes)

Specifies how topics or links relate to each other. The processing default is "unordered", although no default is specified in the OASIS-provided grammar files. The following values are valid:

unordered

Indicates that the order of the child topics is not significant.

sequence

Indicates that the order of the child topics is significant. Output processors will typically link between them in order.

choice

Indicates that one of the children should be selected.

family

Indicates a tight grouping in which each of the referenced topics not only relates to the current topic but also relate to each other.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@collection-type

The @collection-type attribute specifies how the children of a <topicref> element relate to their parent and to each other. This attribute, which is set on the parent element, typically is used by processors to determine how to generate navigation links in the rendered topics. For example, a @collection-type value of "sequence" indicates that children of the specifying <topicref> element represent an ordered sequence of topics; processors might add numbers

to the list of child topics or generate next/previous links for online presentation. This attribute is available in topics on the <linklist> and <linkpool> elements, where it has the same behavior. Where the @collection-type attribute is available on elements that cannot directly contain elements, the behavior of the attribute is undefined.

Disposition: Unassigned

Comment by Kristen J Eberlein on 28 September 2022

In the definitions of the supported values, do we want to refer to "resources" instead of "topics"? Since we specify that @collection-type specifies "how topics or links relate to each other" ...

Disposition: Unassigned

@colsep (complex table attributes)

Specifies whether to render column separators between table entries. The following values are valid: "0" (no separators) and "1" (separators).

The @colsep attribute is available on the following table elements: <colspec>, <entry>, , and <tgroup>.

@compact

Specifies whether the vertical spacing between list items is tightened. The following values are valid: "yes", "no", and "-dita-use-conref-target". Some DITA processors or output formats might not support the @compact attribute.

@datatype (data-element attributes)

Specifies the type of data contained in the @value attribute or within the <data> element. A typical use of @datatype will be the identifying URI for an XML Schema datatype.

@DITAArchVersion (architectural attributes)

Specifies the version of the DITA architecture that is in use. This attribute is in the namespace http://dita.oasis-open.org/architecture/2005/. This attribute is specified in the topic and map modules, and it uses a default value of the current version of DITA. The current default is "2.0".

@duplicates

Specifies whether duplicate links are removed from a group of links. Duplicate links are links that address the same resource using the same properties, such as link text and link role. How duplicate links are determined is processor-specific. The following values are valid:

yes

Specifies that duplicate links are retained.

no

Specifies that duplicate links are removed.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

The suggested processing default is "yes" within <linklist> elements and "no" for other links.

Comment by robander on Dec 28 2021

"How duplicate links are determined is processor-specific" ==> this should be included in any updates to standardize language around "implementation dependent". **Disposition: Unassigned**

@encoding (inclusion attributes)

Comment by Kristen J Eberlein on 29 April 2019

Can we replace "should" in the following definition?

Disposition: Unassigned

Specifies the character encoding to use when translating the character data from the referenced content. The value should be a valid encoding name. If not specified, processors may make attempts to automatically determine the correct encoding, for example using HTTP headers, through analysis of the binary structure of the referenced data, or the <?xml?> processing instruction when including XML as text. The resource should be treated as UTF-8 if no other encoding information can be determined.

When parse="xml", standard XML parsing rules apply for the detection of character encoding. The necessity and uses of @encoding for non-standard values of @parse are implementation-dependent.

@expanse (display attributes)

Specifies the horizontal placement of the element. The following values are valid:

column

Indicates that the element is aligned with the current column margin.

page

Indicates that the element is placed on the left page margin for left-to-right presentation or the right page margin for right-to-left presentation.

spread

Indicates that the object is rendered across a multi-page spread. If the output format does not have anything that corresponds to spreads, then "spread" has the same meaning as "page".

textline

Indicates that the element is aligned with the left (for left-to-right presentation) or right (for right-to-left presentation) margin of the current text line and takes indentation into account.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

For , in place of the @expanse attribute that is used by other DITA elements, the @pgwide attribute is used in order to conform to the OASIS Exchange Table Model.

Some processors or output formats might not support all values.

@expiry (date attributes)

Specifies the date when the information should be retired or refreshed. The date is specified using the ISO 8601 format: *YYYY-MM-DD*, where *YYYY* is the year, *MM* is the month (01 to 12), and *DD* is the day (01-31).

@format (link-relationship attributes)

Specifies the format of the resource that is referenced. See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@frame (display attributes)

Specifies which portion of a border surrounds the element. The following values are valid:

all

Indicates that a line is rendered at the top, bottom, left, and right of the containing element.

bottom

Indicates that a line is rendered at the bottom of the containing element.

none

Indicates that no lines are rendered.

sides

Indicates that a line is rendered at the left and right of the containing element.

top

Indicates that a line is rendered at the top of the containing element.

topbot

Indicates that a line is rendered at the top and bottom of the containing element.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Some processors or output formats might not support all values.

@golive (date attributes)

Specifies the publication or general availability (GA) date. The date is specified using the ISO 8601 format: *YYYY-MM-DD*, where *YYYY* is the year, *MM* is the month (01 to 12), and *DD* is the day (01-31).

@headers

Specifies which entries in the current table provide headers for this cell. The @headers attribute contains an unordered set of unique, space-separated tokens, each of which is an ID reference of an entry from the same table.

@href (link-relationship attributes)

Specifies a reference to a resource. See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@impose-role

Specifies whether this element will impose its role on elements in a referenced map. The attribute is ignored if the target of the reference is not a map or branch of a map. The following values are valid:

keeptarget

The role of the current reference is not imposed on the target of the reference. This is the default for the unspecialized <topicref> element and for many convenience elements such as <keydef>.

impose

The role of the current reference is imposed on the target of the reference. For example, if a specialized topic reference <chapter> uses this value and references a map, a topic reference that resolves in place of the <chapter> will be treated as if it were a chapter.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@keycol (simpletable attributes)

Specifies the column that contains the content that represents the key to the tabular structure. If <code>@keycol</code> is present and assigned a numerical value, the specified column is treated as a vertical header.

@keyref

Specifies a key name that acts as a redirectable reference based on a key definition within a map. See B.4 **STUB CONTENT** (44) for information on using this attribute.

For HDITA, the equivalent of @keyref is @data-keyref

Comment by robander

The definiton above for @keyref should be synchronized with the definition in the linked section on keys. **Disposition: Unassigned**

@keys

Specifies one or more names for a resource. See B.4 STUB CONTENT (44) for information on using this attribute.

For HDITA, the equivalent of @keys is @data-keys

@keyscope (common map attributes)

Specifies that the element marks the boundaries of a key scope.

See B.4 STUB CONTENT (44) for information on using this attribute.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@keyscope

Defines a new scope for key definition and resolution, and gives the scope one or more names. For more information about key scopes, see Indirect key-based addressing.

Disposition: Unassigned

@linking (common map attributes)

Specifies linking characteristics of a topic specific to the location of this reference in a map. If the value is not specified locally, the value might cascade from another element in the map (for cascade rules, see Cascading of metadata attributes in a DITA map).

Comment by robander on Dec 28 2021

The text below matches 1.3 spec text but I'm nervous about "cannot link" type definition. It's describing how to generate links based on the current context in the map - it's not describing what the topic itself is allowed to link to, which is how I interpret "can".

Disposition: Unassigned

The following values are valid:

targetonly

A topic can only be linked to and cannot link to other topics.

sourceonly

A topic cannot be linked to but can link to other topics.

normal

A topic can be linked to and can link to other topics. Use this to override the linking value of a parent topic.

none

A topic cannot be linked to or link to other topics.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@linking

By default, the relationships between the topics that are referenced in a map are reciprocal:

- Child topics link to parent topics and vice versa.
- Next and previous topics in a sequence link to each other.
- Topics in a family link to their sibling topics.
- Topics referenced in the table cells of the same row in a relationship table link to each other. A topic referenced within a table cell does not (by default) link to other topics referenced in the same table cell.

This behavior can be modified by using the @linking attribute, which enables an author or information architect to specify how a topic participates in a relationship. The following values are valid:

linking="none"

Specifies that the topic does not exist in the map for the purposes of calculating links.

linking="sourceonly"

Specifies that the topic will link to its related topics but not vice versa.

linking="targetonly"

Specifies that the related topics will link to it but not vice versa.

linking="normal"

Default value. It specifies that linking will be reciprocal (the topic will link to related topics, and they will link back to it).

Authors also can create links directly in a topic by using the xref> or <link> elements, but in most cases map-based linking is preferable, because links in topics create dependencies between topics that can hinder reuse.

Note that while the relationships between the topics that are referenced in a map are reciprocal, the relationships merely *imply* reciprocal links in generated output that includes links. The rendered navigation links are a function of the presentation style that is determined by the processor.

Disposition: Unassigned

@name (data-element attributes)

Defines a unique name for the object.

Comment by robander

Do we need to specify the scope of "unique" here? **Disposition: Unassigned**

@otherrole

Specifies an alternate role for a link relationship when the @role attribute is set to "other".

@parse (inclusion attributes)

Specifies the processing expectations for the referenced resource. Processors must support the following values:

text

The contents should be treated as plain text. Reserved XML characters should be displayed, and not interpreted as XML markup.

xml

The contents of the referenced resource should be treated as an XML document, and the referenced element should be inserted at the location of the <include> element. If a fragment identifier is included in the address of the content, processors must select the element with the specified ID. If no fragment identifier is included, the root element of the referenced XML document is selected. Any grammar processing should be performed during resolution, such that default attribute values are explicitly populated. Prolog content must be discarded.

It is an error to use parse="xml" anywhere other than within <foreign> or a specialization thereof.

Processors may support other values for the <code>@parse</code> attribute with proprietary processing semantics. Processors should issue warnings and use <fallback> when they encounter unsupported <code>@parse</code> values. Non-standard <code>@parse</code> instructions should be expressed as URIs.

Note Proprietary @parse values will likely limit the portability and interoperability of DITA content, so should be used with care.

@processing-role (common map attributes)

Specifies whether the referenced resource is processed normally or treated as a resource that is only included in order to resolve references, such as key or content references. The following values are valid:

normal

Indicates that the resource is a readable part of the information set. It is included in navigation and search results. This is the default value for the <topicref>element.

resource-only

Indicates that the resource should be used only for processing purposes. It is not included in navigation or search results, nor is it rendered as a topic. This is the default value for the < keydef> element.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

If no value is specified but the attribute is specified on a containing element within a map or within the relatedlinks section, the value cascades from the closest containing element.

@relcolwidth (simpletable attributes)

Specifies the width of each column in relationship to the width of the other columns. The value is a spaceseparated list of relative column widths. Each column width is specified as a positive integer or decimal number followed by an asterisk character.

```
For example, the value relcolwidth="1* 2* 3*" gives a total of 6 units across three columns. The relative widths are 1/6, 2/6, and 3/6 (16.7%, 33.3%, and 50%). Similarly, the value relcolwidth="90* 150*" causes relative widths of 90/240 and 150/240 (37.5% and 62.5%).
```

@role

Specifies the role that a linked topic plays in relationship with the current topic.

For example, in a parent/child relationship, the role would be "parent" when the target is the parent of the current topic, and "child" when the target is the child of the current topic. This can be used to sort and classify links when rendering.

The following values are valid:

ancestor

Indicates a link to a topic above the parent topic.

child

Indicates a link to a direct child such as a directly nested or dependent topic.

cousin

Indicates a link to another topic in the same hierarchy that is not a parent, child, sibling, next, or previous.

descendant

Indicates a link to a topic below a child topic.

friend

Indicates a link to a similar topic that is not necessarily part of the same hierarchy.

next

Indicates a link to the next topic in a sequence.

other

Indicates any other kind of relationship or role. The type of role is specified as the value for the <code>@otherrole</code> attribute.

parent

Indicates a link to a topic that is a parent of the current topic.

previous

Indicates a link to the previous topic in a sequence.

sibling

Indicates a link between two children of the same parent topic.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

@rowheader (complex table attributes)

Specifies whether the entries in the respective column are row headers. The following values are valid:

firstcol

Indicates that entries in the first column of the table are row headers. This applies when the @rowheader attribute is specified on the element.

headers

Indicates that entries of the column that is described using the <colspec> element are row headers. This applies when the @rowheader attribute is specified on the <colspec> element.

norowheader

Indicates that entries in the first column are not row headers. This applies when the @rowheader attribute is specified on the element.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

Note This attribute is not part of the OASIS Exchange Table Model upon which DITA tables are based. Some processors or output formats might not support all values.

The @rowheader attribute is available on the following table elements: and <colspec>.

@rowsep (complex table attributes)

Specifies whether to render row separators between table entries. The following values are valid: "0" (no separators) and "1" (separators).

The @rowsep attribute is available on the following table elements: <colspec>, <entry>, <row>, , and <tgroup>.

@scale (display attributes)

Specifies the percentage by which fonts are resized in relation to the normal text size. The value of this attribute is a positive integer. When used on or <simpletable>, the following values are valid: "50", "60", "70", "80", "90", "100", "110", "120", "140", "160", "180", "200", and -dita-use-conref-target (44).

This attribute is primarily useful for print-oriented display. Some processors might not support all values.

If the @scale attribute is specified on an element that contains an image, the image is not scaled. The image is scaled **only** if a scaling property is explicitly specified for the <image> element.

@scope (link-relationship attributes)

Specifies the closeness of the relationship between the current document and the referenced resource. The following values are valid: "local", "peer", "external", and "-dita-use-conref-target".

See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@scope

Specifies that the current entry is a header for other table entries. The following values are valid:

col

Indicates that the current entry is a header for all cells in the column.

colgroup

Indicates that the current entry is a header for all cells in the columns that are spanned by this entry.

row

Indicates that the current entry is a header for all cells in the row.

rowgroup

Indicates that the current entry is a header for all cells in the rows that are spanned by this entry.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

@search (common map attributes)

Specifies whether the target is available for searching. If the value is not specified locally, the value might cascade from another element in the map (for cascade rules, see Cascading of metadata attributes in a DITA map). The following values are valid: "yes", "no", and "-dita-use-conref-target".

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@search

Specifies whether the topic is included in search indexes.

Disposition: Unassigned

@specializations (architectural attributes)

Specifies the attribute-domain specializations that are included in the document-type shell. This attribute is set as a default within the document-type shell. The value varies depending on what domains are integrated into the document-type shell. For example, a grammar file that includes the specialized attributes @audience, @deliveryTarget, and @newBaseAtt would set the value to @props/audience @props/ deliveryTarget @base/newBaseAtt.

@subjectrefs (common map attributes)

Specifies one or more keys that are each defined by a subject definition in a subject scheme map. Multiple values are separated by white space.

@title-role (REQUIRED)

Specifies the role that the alternative title serves. Multiple roles are separated by white space. The following roles are defined in the specification: "linking", "navigation", "search", "subtitle", and "hint".

Processors can define custom values for the @title-role attribute.

@toc (common map attributes)

Specifies whether a topic appears in the table of contents (TOC) based on the current map context. If the value is not specified locally, the value might cascade from another element in the map (for cascade rules, see Cascading of metadata attributes in a DITA map). The following values are valid:

yes

The topic appears in a generated TOC.

no

The topic does not appear in a generated TOC.

-dita-use-conref-target

See B.4 STUB CONTENT (44) for more information.

Comment by Kristen J Eberlein on 28 September 2022

Here is the content from the "DITA map attributes" topic:

@toc

Specifies whether topics are excluded from navigation output, such as a Web site map or an online table of contents. By default, <topicref> hierarchies are included in navigation output; relationship tables are excluded.

Disposition: Unassigned

@type (link-relationship attributes)

Describes the target of a reference. See B.4 STUB CONTENT (44) for detailed information on supported values and processing implications.

@value (data-element attributes)

Specifies a value associated with the current property or element.

@valign (complex table attributes)

Specifies the vertical alignment of text in table entries. The following values are valid:

bottom

Indicates that text is aligned with the bottom of the table entry.

middle

Indicates that text is aligned with the middle of the table entry.

top

Indicates that text is aligned with the top of the table entry.

-dita-use-conref-target

See Using the -dita-use-conref-target value for more information.

The <code>@valign</code> attribute is available on the following table elements: <entry>, , <thead>, and <row>.

@xml:space

Specifies how to handle white space in the current element. This attribute is provided on , <lines>, and on elements specialized from those. It ensures that parsers respect white space that is part of the data in those elements, including line-end characters. When defined, it has a fixed value of "preserve", making it a default property of the element that cannot be changed or deleted by authors.

@xmlns:ditaarch (architectural attributes)

Declares the default DITA namespace. This namespace is declared as such in the RNG modules for <topic> and <map>, but it is specified as an attribute in the equivalent DTD-based modules. The value is fixed to "http://dita.oasis-open.org/architecture/2005/".

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C Formatting conventions

Although how DITA elements are formatted is ultimately implementation-specific, certain conventions are common.

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