DITA Language Reference Learning your way around DITA markup

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DITA Language Reference overview

The design of the Darwin Information Typing Architecture (DITA) is based on deriving multiple information types, or info-types, from a common, generic topic. This language reference describes the elements that comprise the topic DTD and its initial, info-typed descendents: concept, reference, and task.

The elements that make up the DITA design represent a set of different authoring concerns:

- The main components of a topic, concept, reference, or task document,
- The common elements available for creating content within the body of a topic,
- The elements that make up the two types of tables in DITA,
- Elements that represent different subject domains,
- · Elements that appear in many contexts,
- · The elements contained in the prolog of a topic,
- The elements contained in the related-links part of a topic,
- Elements that are available for further specialization,
- · Commonly referenced descriptions,
- and elements contained in a DITA map.

In addition, this reference also describes elements that are used to manage DITA topics, either for convenience in editing or for production as sets of topics for particular kinds of deliverables.

Topic elements

Use the generic topic structure for untyped topics.

dita

The <dita> element provides a top-level container for multiple topics when you create documents using the ditabase document type. The <dita> element lets you create any sequence of concept, task, and reference topics, and the ditabase document type lets you further nest these topic types inside each other. The <dita> element has no particular output implications; it simply allows you to create multiple topics of different types at the same level in a single document.

Contains

(topic or concept or task or reference) (one or more)

Contained by

Not contained by any other element. The root element for the compound DITA document type.

Inheritance

Not a specializable DITA element.

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

Example

topic

The <topic> element is the top-level DITA element for a single-subject topic or article. Other top-level DITA elements that are more content-specific are <concept>, <task>, and <reference>.

To support applications that are namespace-aware, DITA DTDs and Schemas provide the following fixed namespaced declarations for topic, and for topic-level elements derived from topic:

```
ditaarch:DITAArchVersion="1.0" xmlns:ditaarch="http://dita.oasis-open.org/architecture/2005/"
```

In DTDs, the "ditaarch" prefix is parameterized to enable future specialization.

All DITA elements take the xmlns="" fixed attribute, which puts them into the null

namespace by default. This attribute is applied via the %global-atts; group.

Contains

(title then (titlealts) (optional) then (shortdesc) (optional) then (prolog) (optional) then (body) (optional) then (related-links) (optional) then (topic or concept or task or reference) (any number))

Contained by

dita, topic, concept, task, reference

Inheritance

topic / topic

Name	Description	Data Type	Default Value	Required?
id	An anchor point. This ID is the target for references by href and conref attributes, and for external applications that refer to DITA content.	ID	#IMPLIED	No
conref	This attribute is used to reference an ID on a topic that can be reused. For example, you could create a series of topics in a compound (dita) or nested context for authoring convenience and then reference each topic individually into a new target location. During output processing, a lookup process will pull the contents of the first topic into the calling topic markup that has the conref attribute. The conref value follows the same conventions as HTML for normal file links. To refer to target content in a different file, put the full URL of that topic before the # character. Target elsewhere in the same file: conref="#topicid" First topic in different file: conref="#topicid" file: conref="filename.xml"	CDATA	#IMPLIED	No
	conref="filename.xml" Specific topic in different file: conref="filename.xml#topicid"			
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The	NMTOKEN	#IMPLIED	No

	allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).			
DITAArchVersion	Designates the version of the architecture that is in use.	CDATA	"1.0" (version dependent; will increase)	Yes
domains	Indicates the specialized domains that are included in the DTD.	CDATA	ui-d hi-d pr-d sw-d	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<topic id="topic">
  <title>Some little topic</title>
  <body>
    Here's a <b><i>cute</i></b>,
    <b>little</b> topic.

      Some item
      Another item
      </od>

      </body>
      </topic>

      <topic</td>
```

title

The <title> element contains a heading or label for the main parts of a topic, including the topic as a whole, its sections and examples, and its labelled content, such as figures and tables.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image) (any number)

Contained by

topic , section , example , fig , figgroup , linklist , table , concept , task , reference , refsyn , syntaxdiagram , synblk , groupseq , groupchoice , groupcomp , fragment

Inheritance

topic / title

Name	Description	Data Type	Default Value	Required?
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

class, outputclass	Common attributes described in Other
·	common DITA attributes

```
<topic id="topic">
  <title>Some little topic</title>
  <body>
   Some discourse.
   </body>
  </topic>
```

titlealts

The alternate title element (<titlealts>) is optional, but can occur after the topic title. Two elements can be inserted as sub-elements of <titlealts>: navigation title <navtitle> and search title <searchtitle>.

When your DITA topic is transformed to XHTML, the <searchtitle> element is used to create a title element at the top of the resulting XHTML file. This title may differ from the first level heading that shows in the main browser window. In HTML output, the <navtitle> may be used to create navigation panels when your DITA topics are part of an HTML-based help or information system. The design intent is to enable navigation for HTML Help and Eclipse help systems.

When the <titlealts> element is absent, the title element for is used for all purposes.

Contains

```
((navtitle) (optional) then (searchtitle) (optional))
```

Contained by

topic, concept, task, reference

Inheritance

topic / titlealts

Attributes

Name	Description	Data Type	Default Value	Required?
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

navtitle

The navigation title (<navtitle>) element is one of a set of alternate titles that can be

included inside the <titlealts> element. This navigation title may differ from the first level heading that shows in the main browser window. Use <navtitle> when the actual title of the topic isn't appropriate for use in navigation panes or online contents (for example, because the actual title is too long).

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

titlealts

Inheritance

topic / navtitle

Attributes

Name	Description	Data Type	Default Value	Required?
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<task id=progexample">
  <title>Publishing a DITA information set in PDF</title>
     <titlealts><navtitle>Publishing in PDF</navtitle></titlealts>
  <taskbody> . . . </taskbody>
  </task>
```

searchtitle

When your DITA topic is transformed to XHTML, the <searchtitle> element is used to create a title element at the top of the resulting HTML file. This title is normally used in search result summaries by some search engines, such as that in Eclipse (http://eclipse.org); if not set, the XHTML's title element defaults to the source topic's title content (which may not be as well optimized for search summaries)

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

titlealts

Contained by

topicmeta

Inheritance

topic / searchtitle

Name	Description	Data Type	Default Value	Required?
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

```
<task id="progexample">
  <title>Programming Example</title>
    <titlealts><searchtitle>Example of Required
Programming</searchtitle></titlealts>
  <taskbody> . . . </taskbody>
  </task>
```

shortdesc

The short description (<shortdesc>) element occurs between the topic title and the topic body, as the initial paragraph-like content of a topic. The short description, which represents the purpose or theme of the topic, is also intended to be used as a link preview and for searching.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image) (any number)

Contained by

topic, concept, task, reference

Contained by

topicmeta

Inheritance

topic / shortdesc

Attributes

Name	Description	Data Type	Default Value	Required?
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

body

The <body> element is the container for the main content of a <topic>.

Contains

(p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or required-cleanup or section or example) (any number)

Contained by

topic

Inheritance

topic / body

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

section

The <section> element represents an organizational division in a topic. Sections are used to organize subsets of information that are directly related to the topic. For example, the titles **Reference Syntax**, **Example** and **Properties** might represent section-level discourse within a topic about a command-line process—the content in each section relates uniquely to the subject of that topic. Multiple sections within a single topic do not represent a hierarchy, but rather peer divisions of that topic. Sections cannot be nested. A section may have an optional title.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or title or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body, conbody, refbody

Inheritance

topic / section

Attributes

Name	Description	Data Type	Default Value	Required?
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

example

The <example> element is a section with the specific role of containing examples that illustrate or support the current topic. The <example> element has the same content model as <section>.

DITA uses <example> to contain both discussion and sample code or outputs. Hence, in a DITA topic, to represent programming code and results within the discussion in an example, use the <codeblock> and <systemoutput> elements within the example element. For lines of text, use the element. For pre-formatted text such as email headers, use the element.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or title or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body, conbody, taskbody, refbody

Inheritance topic / example

Attributes

Name	Description	Data Type	Default Value	Required?
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

related-links

The related information links of a topic (<related-links> element) are stored in a special section following the body of the topic. After a topic is processed into it final output form, the related links are usually displayed at the end of the topic, although some Web-based help systems might display them in a separate navigation frame.

Processing notes:

- 1. PDF output typically ignores hierarchical links, for example ancestor/parent/child/descendant/next/previous/sibling, although it may include some child links to produce summaries at the start of chapters.
- 2. Links not in a linklist> will be sorted on output based on type, role, and importance.
- 3. The value of the *format* attribute defaults to "dita" unless the attribute *scope="external"*, when format is assumed to be not-dita.

Contains

(link or linklist or linkpool) (one or more)

Contained by

topic, concept, task, reference

Inheritance

topic / related-links

Name	Description	Data Type	Default Value	Required?
%rel-atts; (type, role, otherrole)	A set of related attributes, described at %rel-atts;	parameter entity	PE not applicable	Not applicable

%select-atts; (platform, product, audience, otherprops, importance,	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
rev, status)				
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita".	CDATA	#IMPLIED	No
	Possible values include:			
	dita			
	The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic."			
	html			
	The format of the linked-to resource is HTML or XHTML.			
	pdf			
	The format of the linked-to resource is PDF (opens a new window).			
	ditamap			
	The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy			
	(no value)			
	Defaults to "dita"			
	For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)			
scope	The scope attribute identifies the closeness of the relationship between the current document and the target resource. • Set scope to local when the resource is part of the current set of content, and should be accessed and copied to the output directory. • Set scope to peer when the resource is part of the current set of content but is not accessible at build time. • Set scope to external when the resource is not part of the current information set and should open in a new browser window. The default is local.	(local peer external)	#IMPLIED	No

DITA Language Reference

%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<task id="sqlj">
  <title>Creating an SQLJ file</title>
  <taskbody>...</taskbody>
  <related-links>
  <link href="#concept"><linktext>Some little concept</linktext></link>
  </related-links>
  </related-links>
```

Concept elements

Use the concept topic to introduce the background or overview information for tasks or reference topics. The concept topic has the restriction that following a section or example, only other sections or examples are permitted as content.

concept

The <concept> element is the top-level element for a topic that answers the question "what is?" Concepts provide background information that users must know before they can successfully work with a product or interface. Often, a concept is an extended definition of a major abstraction such as a process or function. It might also have an example or a graphic, but generally the structure of a concept is fairly simple.

Contains

(title then (titlealts) (optional) then (shortdesc) (optional) then (prolog) (optional) then (conbody) (optional) then (related-links) (optional) then (topic or concept or task or reference) (any number))

Contained by

dita, topic, concept, task, reference

Inheritance

topic / topic, concept / concept

Name	Description	Data Type	Default Value	Required?
id	An anchor point. This ID is the target for references by href and conref attributes, and for external applications that refer to DITA content.	ID	#IMPLIED	No
conref	This attribute is used to reference an ID on a topic that can be reused. For example, you could create a series of topics in a compound (dita) or nested context for authoring convenience and then reference each topic individually into a new target location. During output processing, a lookup process will pull the contents of the first topic into the calling topic markup that has the conref attribute. The conref value follows the same conventions as HTML for normal file links. To refer to target content in a different file, put the full URL of that topic before the # character.	CDATA	#IMPLIED	No
	<pre>Target elsewhere in the same file: conref="#topicid" First topic in different file: conref="filename.xml" Specific topic in different file: conref="filename.xml#topicid"</pre>			

%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	NMTOKEN	#IMPLIED	No
DITAArchVersion	Designates the version of the architecture that is in use.	CDATA	"1.0" (version dependent; will increase)	Yes
domains	Indicates the specialized domains that are included in the DTD.	CDATA	ui-d hi-d pr-d sw-d	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<concept id="concept">
  <title>Introduction to Bird Calling</title>
  <shortdesc>If you wish to attract more birds to your Acme Bird Feeder,
learn the art of bird calling. Bird calling is an efficient way
to alert more birds to the presence of your bird feeder.</shortdesc>
  <conbody>
     Bird calling requires learning:

            Popular and classical bird songs
            How to whistle like a bird
            (conbody>
            </conbody>
            </concept>
```

conbody

The <conbody> element is the main body-level element for a concept. Like the <body> element of a general <topic>, <conbody> allows paragraphs, lists, and other elements as well as sections and examples. But <conbody> has a constraint that a section or an example can be followed only by other sections or examples.

Contains

((p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or required-cleanup) (any number) then (section or example) (any number))

Contained by

concept

Inheritance

topic / body , concept / conbody

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Reference elements

Use the reference elements to describe regular features of sets of things, most commonly the commands in a programming language. However, this format is also suitable for recipes, bibliographies, catalogues, and similar collections of structured descriptive prose.

reference

Contains

(title then (titlealts) (optional) then (shortdesc) (optional) then (prolog) (optional) then (refbody) (optional) then (related-links) (optional) then (topic or concept or task or reference) (any number))

Contained by

dita, topic, concept, task, reference

Inheritance

topic / topic , reference / reference

Name	Description	Data Type	Default Value	Required?
id	An anchor point. This ID is the target for references by href and conref attributes, and for external applications that refer to DITA content.	ID	#IMPLIED	No
conref	This attribute is used to reference an ID on a topic that can be reused. For example, you could create a series of topics in a compound (dita) or nested context for authoring convenience and then reference each topic individually into a new target location. During output processing, a lookup process will pull the contents of the first topic into the calling topic markup that has the conref attribute. The conref value follows the same conventions as HTML for normal file links. To refer to target content in a different file, put the full URL of that topic before the # character.	CDATA	#IMPLIED	No

	<pre>Target elsewhere in the same file: conref="#topicid" First topic in different file: conref="filename.xml" Specific topic in different file: conref="filename.xml#topicid"</pre>			
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	NMTOKEN	#IMPLIED	No
DITAArchVersion	Designates the version of the architecture that is in use.	CDATA	"1.0" (version dependent; will increase)	Yes
domains	Indicates the specialized domains that are included in the DTD.	CDATA	ui-d hi-d pr-d sw-d	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

refbody

The <refbody> element is a container for the main content of the reference topic. Reference topics limit the body structure to tables (both simple and standard), property

lists, syntax sections, and generic sections and examples, in any sequence or number.

Reference topics represent the kind of information that users typically consult to understand programming objects, statements, commands, configuration file options, recipes, terminological descriptions, and so forth.

Contains

((section or refsyn or example or table or simpletable or properties) (any number))

Contained by

reference

Inheritance

topic / body , reference / refbody

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See reference.

refsyn

The <refsyn> element is a special section inside a reference topic. The section often contains syntax or signature content (for example, a command-line utility's calling syntax, or an API's signature). The <refsyn> contains a brief, possibly diagrammatic description of the subject's interface or high-level structure.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or title or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

refbody

Inheritance

topic / section, reference / refsyn

Name	Description	Data Type	Default	Required?
------	-------------	-----------	---------	-----------

			Value	
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

See reference.

properties

Contains

((prophead) (optional) then (property) (one or more))

Contained by

refbody

Inheritance

topic / simpletable , reference / properties

Name	Description	Data Type	Default Value	Required?
relcolwidth	A relative value to specify the width of a column in relationship to the width of the other columns for print output . The values are totaled and made a percent. For example:	CDATA	#IMPLIED	No
	relcolwidth="1* 2* 3*"			
	causes widths of 16.7%, 33.3%, and 66.7%.			
	relcolwidth="90* 150*"			
	causes width of 37.5% and 62.5%.			
keycol	Defines the column that will be used for row headings. No value indicates no key column. When present, the numerical value causes the specified column to be	NMTOKEN	#IMPLIED	No

	highlighted as a vertical header.			
refcols	Designates columns that contain references, and are candidates for automated linking (not currently supported). Columns are identified by a comma-delimited list of numbers (for example: 1, 3).	NMTOKENS	#IMPLIED	No
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

property

The cproperty> element represents a property of the current topic's subject. For example, if the current topic is a class, the property might show that the class is protected rather than public. It contains three optional elements: type, value, and description.

Contains

((proptype) (optional) then (propvalue) (optional) then (propdesc) (optional))

Contained by

properties

Inheritance

topic / strow , reference / property

Value

DITA Language Reference

%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See properties.

proptype

The proptype element describes the type of property.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

property

Inheritance

topic / stentry, reference / proptype

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See properties.

propdesc

The cpropdesc> element is used to provide a short description of the property type and its listed values (or just the value).

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or image) (any number)

Contained by

property

Inheritance

topic / stentry , reference / propdesc

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See properties.

propvalue

The ropvalue> element indicates the value or values for the current property type. You
can put values in separate rows if they need separate descriptions, and just leave the
cproptype> element blank.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

property

Inheritance

topic / stentry, reference / propvalue

Name	Description	Data Type		Required?
			Value	

DITA Language Reference

%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See properties.

prophead

The prophead element supports regular headings for the properties element.

Contains

((proptypehd) (optional) then (propvaluehd) (optional) then (propdeschd) (optional))

Contained by

properties

Inheritance

topic / sthead , reference / prophead

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See properties.

Task elements

Use the task topic to describe the steps of a particular task, or to provide an overview of a higher-level task. The task topic includes sections for describing the context, prerequisites, actual steps, expected results, example, and expected next steps for a task.

task

The <task> element is the top-level element for a task topic. Tasks are the main building blocks for task-oriented user assistance. They generally provide step-by-step instructions that will enable a user to perform a task. A task answers the question of "how to?" by telling the user precisely what to do and the order in which to do it. Tasks have the same high-level structure as other topics, with a title, short description and body.

Contains

(title then (titlealts) (optional) then (shortdesc) (optional) then (prolog) (optional) then (taskbody) (optional) then (related-links) (optional) then (topic or concept or task or reference) (any number))

Contained by

dita, topic, concept, task, reference

Inheritance

topic / topic , task / task

Name	Description	Data Type	Default Value	Required?
id	An anchor point. This ID is the target for references by href and conref attributes, and for external applications that refer to DITA content.	ID	#IMPLIED	No
conref	This attribute is used to reference an ID on a topic that can be reused. For example, you could create a series of topics in a compound (dita) or nested context for authoring convenience and then reference each topic individually into a new target location. During output processing, a lookup process will pull the contents of the first topic into the calling topic markup that has the conref attribute.	CDATA	#IMPLIED	No
	The conref value follows the same conventions as HTML for normal file links. To refer to target content in a different file, put the full URL of that topic before the # character. Target elsewhere in the same file: conref="#topicid" First topic in different file: conref="filename.xml"			
	conref="filename.xml" Specific topic in different			

	ı	1	1	
	<pre>file: conref="filename.xml#topicid"</pre>			
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	NMTOKEN	#IMPLIED	No
DITAArchVersion	Designates the version of the architecture that is in use.	CDATA	"1.0" (version dependent; will increase)	Yes
domains	Indicates the specialized domains that are included in the DTD.	CDATA	ui-d hi-d pr-d sw-d	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<task id="sqlj">
  <title>Creating an SQLJ file</title>
  <taskbody>
    <context>Once you have set up SQLJ, you need to create a new SQLJ file.
    </context>
    <steps>
        <step><cmd>Open...</cmd></step>
        </taskbody>
    </taskbody>
  </taskbody>
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```

taskbody

Contains

```
( ( prereq ) (optional) then ( context ) (optional) then ( steps or steps-unordered ) (optional) then ( result ) (optional) then ( example ) (optional) then ( postreq ) (optional) )
```

Contained by

task

Inheritance

topic / body, task / taskbody

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See task.

postreq

The <postreq> element describes steps or tasks that the user should do after the successful completion of the current task. It is often supported by links to the next task or tasks in the <related-links> section.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

taskbody

Inheritance

topic / section, task / postreq

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

<postreq>Notify the proctor upon completing this self-test./postreq>

prereq

The pre-requisite (cyrereq>) section of a task should document things the user needs to know or do before starting the current task. Prerequisite links will be placed in a list after the related-links section; on output the cyrereq> links from the related-links section are added to the cyrereq> section.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

taskbody

Inheritance

topic / section , task / prereq

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<task id="sqlj">
<title>Creating an SQLJ file</title>
<taskbody>

complete of the SQLJ server.
</taskbody>
</taskbody>
</taskbody>
</taskbody>
</taskbody>
</taskbody>
</taskbody>
</taskbody>
</taskbody>
```

result

The <result> element describes the expected outcome for the task as a whole.

Note: If this is the outcome of a specific step, put this in the <stepresult> element instead.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or

boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

taskbody

Inheritance

topic / section, task / result

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<task id="sqlj">
  <titleCreating an SQLJ file</title>
  <taskbody>
  <context>Once you have set up SQLJ, you need to create a new SQLJ file.
  You cannot add #sqlj statements directly in the Source pane of the
  Workbench.</context>
  <result>The SQLJ file is successfully created when the SQLJ server
  displays the "File Created" dialog.</result>
  </taskbody>
  </task>
```

context

The <context> section of a task provides background information for the task. This information helps the user understand what the purpose of the task is and what they will gain by completing the task. This section should be brief and does not replace or recreate a concept topic on the same subject, although the context section may include some conceptual information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

taskbody

Inheritance

topic / section , task / context

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<task id="sqlj">
<title>Creating an SQLJ file</title>
<taskbody>
<context>Once you have set up SQLJ, you need to create a new SQLJ file.
</context>
</task>
```

steps

The <steps> section of a task provides the main content of the task topic. The task is described as a series of steps that the user must follow to accomplish the task. One or more <steps> elements is required inside the <steps> section.

Two or more steps appear as an ordered list. A single step appears as a paragraph. If all of the contained steps are simple (that is, have no more than a <cmd> element each) then the step list should default to compact. Otherwise it should be formatted as uncompact (with blank lines between each step on output).

Contains

((step) (one or more))

Contained by

taskbody

Inheritance

topic / ol , task / steps

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

steps-unordered

Like the <steps> element, the <steps-unordered> section of a task provides the main content of the task topic, but particularly for cases in which the order of steps may vary from one situation to another. One or more steps is required inside the <steps-unordered> section.

Two or more steps appear as an unordered list. A single step appears as a paragraph. If all of the contained steps are simple (that is, have no more than a <cmd> element each) then the list should default to compact. Otherwise it should be formatted as uncompact (with blank lines between each step on output).

Contains

```
((step) (one or more))
```

Contained by

taskbody

Inheritance

topic / ul , task / steps-unordered

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<task id="sqlj">
  <title>Creating an SQLJ file</title>
  <taskbody>
      <context>Once you have set up SQLJ, you need to create a new SQLJ
file.</context>
      <steps-unordered>
            <step>-cmd>In a text editor, create a new file.</cmd></step>
      </steps-unordered>
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```

</task>

step

The <step> element represents an action that a user must follow to accomplish a task. Each step in a task must contain a command <cmd> element which describes the particular action the user must do to accomplish the overall task. The step element can also contain information <info>, substeps <substeps>, tutorial information <tutorialinfo>, a step example <stepxmp>, choices <choices> or a stepresult <stepresult>, although these are optional.

Contains

(cmd then (info or substeps or tutorialinfo or stepxmp or choicetable or choices) (any number) then (stepresult) (optional))

Contained by

steps, steps-unordered

Inheritance

topic / li, task / step

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether the element it modifies is optional or required.	optional required	#IMPLIED	No
%select-atts;	A set of related attributes, described at select-atts. Note: For this element, the attribute importance has only the values "required" and "optional."			
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
translate	Indicates whether the content of the element should be translated or not.	yes no	#IMPLIED	No
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	NMTOKEN	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<task id="sqlj">
<title>Creating an SQLJ file</title>
<taskbody>
<context>Once you have set up SQLJ, you need to create a new SQLJ file.
</context>
<steps>
<step><cmd>Select
<menucascade><uicontrol>File</uicontrol><uicontrol>New</uicontrol>.</cmd>
<info>New files are created with default values based on a standard template.</info>
</step>
</steps>
</steps>
</staskbody>
</task>
```

choices

The <choices> element contains a list of <choice> elements. It is used when the user will need to choose one of several actions while performing the steps of a task.

Contains

```
((choice) (one or more))
```

Contained by

step

Inheritance

topic / ul , task / choices

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<step><cmd>Choose a server.</cmd>
<choices>
<choice>If you have a remote server you want to test on, type the
IP address or hostname of the server here.</choice>
<choice>If you want to do local testing, just type localhost.</choice>
</choices>
</step>
```

choice

Each <choice> element describes one way that the user could accomplish the current step.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or

boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or itemgroup or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

choices

Inheritance

topic / li, task / choice

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<step><cmd>Choose a server.</cmd>
<choices>
     <choice>If you have a remote server you want to test on, type the
IP address or hostname of the server here.</choice>
<choice>If you want to do local testing, just type localhost.</choice>
</choices>
</step>
```

stepxmp

The step example (<stepxmp>) element is used to illustrate a step of a task. The example can be a couple of words, or an entire paragraph.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

step, substep

Inheritance

topic / itemgroup, task / stepxmp

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable

%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<step>
  <cmd>Type a name for the widget.</cmd>
  <stepxmp>For example, <userinput>mywidget</userinput></stepxmp>
</step>
```

substeps

The <substeps> element allows you to break a step down into a series of separate actions, and should be used only if necessary. Try to describe the steps of a task in a single level of steps. If you need to use more than one level of substep nesting, you should probably rewrite the task to simplify it.

Contains

(substep) (one or more)

Contained by

step

Inheritance

topic / ol , task / substeps

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<substeps>
<substep><cmd>Hold pencil in a steady, level position.</cmd></substep>
<substep><cmd>Turn handle until resistance diminishes.</cmd>
<info>Note: initially, it may be somewhat difficult to turn the handle if pencil has never been sharpened before.</info></substep>
<substep><cmd>To determine if pencil is sharp, remove it from the sharpener
and inspect the tip.</cmd></substep>
</substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substep></substantial substantial subs
```

substep

A <substep> element has the same structure as a <step>, except that it does not allow lists of choices or substeps within it, in order to prevent unlimited nesting of steps.

Contains

(cmd then (info or tutorialinfo or stepxmp) (any number) then (stepresult) (optional))

Contained by

substeps

Inheritance

topic / li , task / substep

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether the element it modifies is optional or required.	optional required	#IMPLIED	No
%select-atts;	A set of related attributes, described at select-atts. Note: For this element, the attribute importance has only the values "required" and "optional."			
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
translate	Indicates whether the content of the element should be translated or not.	yes no	#IMPLIED	No
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	NMTOKEN	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See substeps.

cmd

The command (<cmd>) element is required as the first element inside a <step>. It provides the active voice instruction to the user for completing the step, and should not be more than one sentence. If the step needs additional explanation, this can follow the <cmd>> element inside an info element.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or

b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

step, substep

Inheritance

topic / ph, task / cmd

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to associate the <cmd> with another task that provides more details for that particular step.</cmd>	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

<step><cmd>In a text editor, create a new file.</cmd></step>

info

The information element (<info>) occurs inside a <step> element to provide additional information about the step.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

step, substep

Inheritance

topic / itemgroup, task / info

Name	Description	Data Type	Default	Required?
------	-------------	-----------	---------	-----------

			Value	
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<step><cmd>Type a name for the widget.</cmd>
<info>The widget name is created when you configure the widget
in the Widget Configuration Dialog. It is not an actual class
name or file name, just a label for the widget as used in this
application.</info>
</step>
```

stepresult

The <stepresult> element provides information on the expected outcome of a step. If a user interface is being documented, the outcome could describe a dialog box opening, or the appearance of a progress indicator. Step results are useful to assure a user that they are on track, but should not be used for every step, as this quickly becomes tedious.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

step, substep

Inheritance

topic / itemgroup, task / stepresult

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

<step>
 <cmd importance="urgent">Once you have the water place it in the

tutorialinfo

The tutorial info (<tutorialinfo>) element contains information that is included in a step when a task is part of a tutorial. The <tutorialinfo> element allows you to turn a task into a learning exercise by including explanatory content about methods for completing the current step. The information should be excluded when a task is processed on its own.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

step, substep

Inheritance

topic / itemgroup , task / tutorialinfo

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<steps>
  <step>
    <md>Do this</cmd>
    <tutorialinfo>In your editor, open the first element and click on the dialog.</tutorialinfo>
    </step>
    <step>
    <md>Do that</cmd>
    <tutorialinfo>Move the framulator into the foobar box.</tutorialinfo>
    </step>
    </step>
    </step>
    </step>
    </step>
    </step>
</step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step></step>
```

choicetable

The <choicetable> element contains a series of optional choices available within a step of a task.

Contains

((chhead)(optional)then(chrow)(one or more))

Contained by

step

Inheritance

topic / simpletable , task / choicetable

Name	Description	Data Type	Default Value	Required?
relcolwidth	A relative value to specify the width of a column in relationship to the width of the other columns for print output . The values are totaled and made a percent. For example: relcolwidth="1* 2* 3*" causes widths of 16.7%, 33.3%, and	CDATA	#IMPLIED	No
	66.7%.			
	relcolwidth="90* 150*"			
	causes width of 37.5% and 62.5%.			
keycol	Defines the column that will be used for row headings. No value indicates no key column. When present, the numerical value causes the specified column to be highlighted as a vertical header.	NMTOKEN	#IMPLIED	No
refcols	Designates columns that contain references, and are candidates for automated linking (not currently supported). Columns are identified by a comma-delimited list of numbers (for example: 1, 3).	NMTOKENS	#IMPLIED	No
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

class, outputclass	Common attributes described in Other	
	common DITA attributes	

```
<step><cmd>Then this</cmd>
<choicetable>
  <chhead>
        <choptionhd>Do something</choptionhd>
        <chdeschd>And this happens</chdeschd>
        </chhead>
        <chrow><choption>Do this</choption>
              <chdesc>and this will happen</chdesc></chrow>
        <choption>Do that</choption>
              <chdesc>and that will happen</chdesc></chrow>
        </choicetable>
</step>
```

chrow

The <chrow> element is a container inside the <choicetable> element. The <chrow> element contains both a <choption> and <chdesc> element as a pair.

Contains

```
((choption) then(chdesc))
```

Contained by

choicetable

Inheritance

topic / strow, task / chrow

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

chhead

The <chhead> element is a container inside the <choicetable> element that provides specific heading text to override the default **Options** and **Description** headings. The <chhead> element contains both a choptionhd and chdeschd element as a pair.

Contains

```
((choptionhd) then (chdeschd))
```

Contained by

choicetable

Inheritance

topic / sthead , task / chhead

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

chdesc

The <chdesc> element is a description of an option that a user chooses while performing a step to accomplish a task. It explains why the user would choose that option, and might explain the result of the choice when it is not immediately obvious.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image

or object or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

chrow

Inheritance

topic / stentry , task / chdesc

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

chdeschd

The <chdeschd> option provides a specific label for the list of descriptions of options that a user must choose to accomplish a step of a task. The default label overridden by <chdeschd> is **Description**.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

chhead

Inheritance

topic / stentry, task / chdeschd

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<step><cmd>Then this</cmd>
  <choicetable>
  <chhead>
    <choptionhd>Do something</choptionhd>
    <chdeschd>Or Else this</chdeschd>
  </chhead>
  <chrow><choption>Do this</choption>
        <chdesc>and this will happen</chdesc></chrow>
        <chrow><choption>Do that</choption>
        <chdesc>and this will happen</chdesc></chrow>
        <chdesc>and that will happen</chdesc></chrow>
        </choicetable>
</step>
```

choption

The <choption> element describes an option that a user could choose to accomplish a step of a task. In a user interface, for example, this might be the name of radio button.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

chrow

Inheritance

topic / stentry, task / choption

Mana	Description	Data Tuma	Default	Danisa do
Name	Description	Data Type	Detault	Required?

			Value	
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

choptionhd

The <choptionhd> element provides a specific label for the list of options that a user chooses from to accomplish a step. The default label for options is **Option**.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

chhead

Inheritance

topic / stentry, task / choptionhd

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a	CDATA	#IMPLIED	No

DITA Language Reference

	fixed or default header title for a specialized stentry element. Not intended for direct use by authors.			
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<step><cmd>Then this</cmd>
  <choicetable>
  <chhead>
  <choptionhd>Do something</choptionhd>
  <chdeschd>And this happens</chdeschd>
  </chhead>
  <chrow><choption>Do this</choption>
   <chdesc>and this will happen</chdesc></chrow>
  <chrow><choption>Do that</choption>
   <chdesc>and this will happen</chdesc></chrow>
  <chdesc>and that will happen</chdesc></chrow>
  </choicetable>
</step>
```

Body elements

The body elements support the most common types of content authoring for topics: paragraphs, lists, phrases, figures, and other common types of exhibits in a document.

alt

The alt element provides an element equivalent of the alt attribute on the image element. As an element, it provides direct text entry within an XML editor and is more easily accessed than an attribute for translation.

The use of the alt attribute is deprecated but still supported. The alt element is the preferred way of indicating alternative text for an image.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

image

Inheritance

topic / alt

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

The markup for alt text within an image looks like this:

```
<image href="tip-ing.jpg"/>
     <alt>Here's a Tip!</alt>
</image>
```

cite

The <cite> element is used when you need a bibliographic citation that refers to a book or article. It specifically identifies the title of the resource. Its *keyref* attribute allows the citation to be associated to other possible bibliographic processing (not supported yet).

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state

or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

section , example , desc , p , note , lq , q , sli , li , itemgroup , dt , dd , pre , lines , ph , stentry , draft-comment , fn , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , synnote

Inheritance

topic / cite

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up the location of the cited material, and potentially create a link to it.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

The online article <cite>Specialization in the Darwin Information Typing
Architecture</cite> provides a detailed explanation of how to define new topic types.

desc

The <desc> element contains the description of the current element. A description should provide more information than the title.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or image) (any number)

Contained by

fig, object, xref, link, linklist, table

Inheritance

topic / desc

Name	Description	Data Type	Default Value	Required?
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<fig><title>The Handshake</title>
<desc>This image shows two hands clasped in a formal,
business-like handshake.</desc>
<image href="handshake.jpg" alt="The Handshake"/>
</fig>
```

dd

The definition description (<dd>) element contains the description of a term in a definition list entry.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or itemgroup or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

dlentry

Inheritance

topic / dd

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example See dl

ddhd

The definition descriptions heading (<ddhd>) element contains an optional heading or title for a column of descriptions or definitions in a definition list

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image) (any number)

Contained by

dlhead

Inheritance

topic / ddhd

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See dl.

dl

A definition list (<dl>) is a list of terms and corresponding definitions. The term (<dt>) is usually presented flush left. The description or definition (<dt>) is usually presented either indented and on the next line, or on the same line to the right of the term.

You can also provide an optional heading for the terms and definitions, using the <dlhead> element, which contains header elements for those columns. The default formatting for the <dlhead> looks like a table with a heading row.

Contains

((dlhead)(optional)then(dlentry)(one or more))

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesc, pd

Inheritance

topic / dl

Name	Description	Data Type	Default Value	Required?
compact	Indicates close vertical spacing between the list items. Expanded spacing is the default value. The output result of compact spacing depends on the processor or browser. Allowed values are: yes Indicates compact spacing. no Indicates expanded spacing.	(yes no)	"yes"	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			_

Simple:

With heading:

dlentry

In a definition list, each list item is defined by the definition list entry (<dlentry>) element. The definition list entry element includes a term <dt> and one or more definitions or descriptions <dd> of that term.

Contains

((dt) (one or more) then (dd) (one or more))

Contained by

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Inheritance

topic / dlentry

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See di

dlhead

The <dlhead> element contains optional headings for the term and description columns in a definition list. The definition list heading contains a heading <dthd> for the column of terms and an optional heading <ddhd>for the column of descriptions.

Contains

((dthd)(optional)then(ddhd)(optional))

Contained by

Ы

Inheritance

topic / dlhead

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at	parameter	PE not	Not

	%global-atts;	entity	applicable	applicable
class, outputclass	Common attributes described in Other common DITA attributes			

See dl.

dt

The definition term <dt> element contains a term in a definition list entry.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image) (any number)

Contained by

dlentry

Inheritance

topic / dt

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See dl.

dthd

The definition term heading (<dthd>) element is contained in a definition list head (<dlhead>) and provides an optional heading for the column of terms in a description list.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image) (any number)

Contained by

dlhead

Inheritance topic / dthd

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See dl.

fig

The figure (<fig>) element is a display context (sometimes called an "exhibit") with an optional title for a wide variety of content. Most commonly, the figure element contains an image element (a graphic or artwork), but it can contain several kinds of text objects as well. A title is placed inside the figure element to provide a caption to describe the content.

Contains

((title) (optional) then (desc) (optional) then (figgroup or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or image or object or simpletable) (any number))

Contained by

body , section , example , p , note , lq , li , itemgroup , dd , stentry , draft-comment , fn , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , pd

Inheritance

topic / fig

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by	CDATA	#IMPLIED	No

	authors.			
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<fig expanse="column"><title>The Handshake</title>
<image href="handshake.jpg" alt="The Handshake"/>
</fig>
```

figgroup

The <figgroup> element is used only for specialization at this time. Figure groups can be used to contain multiple cross-references, footnotes or keywords, but not multipart images. Multipart images in DITA should be represented by a suitable media type displayed by the <object> element.

Contains

((title) (optional) then (figgroup or xref or fn or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle) (any number)

Contained by

fig, figgroup

Inheritance

topic / figgroup

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

image

Include artwork or images in a DITA topic by using the <image> element. The <image> element has optional attributes that indicate whether the placement of the included graphic or artwork should be inline (like a button or icon), or on a separate line for a larger image. An href attribute is required on the image element, as this attribute creates a pointer to the image, and allows the output formatting processor to bring the image into the text flow. To make the intent of the image more accessible for users using screen readers or text-only readers, always include a description of the image's content in the alt element.

Contains

(alt) (optional)

Contained by

title, shortdesc, body, section, example, desc, p, note, lq, sli, li, itemgroup, dthd, ddhd, dt, dd, fig, ph, stentry, draft-comment, fn, xref, linkinfo, entry, conbody, prereq, context, cmd, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, proptype, propvalue, propdesc, uicontrol, pt, pd, imagemap

Inheritance topic / image

Name	Description	Data Type	Default Value	Required?
href	The relative path or URL to the GIF or JPEG image. The href attribute uses conventional URL syntax to point to the resource:	CDATA	#IMPLIED	No
	href="/images/construction.gif			
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to refer to the <image/> by a key rather than referencing it directly.	NMTOKEN	#IMPLIED	No
alt	Alternative text that describes the image to provide accessibility to page readers, or provides a text description when an image cannot be displayed by the user's software. The alt attribute is deprecated; use the alt element instead.	CDATA	#IMPLIED	No
longdescref	A reference to a textual description of the graphic. This attribute supports creating accessible content.	CDATA	#IMPLIED	No
height	Indicates the maximum height of an image.	NMTOKEN	#IMPLIED	No
width	Indicates the maximum width of an image.	NMTOKEN	#IMPLIED	No
align	Controls the horizontal alignment of an image when placement is specified as "break." Allowable values (processor-validated) are: left, right, center, and current.	CDATA	#IMPLIED	No
placement	Indicates whether an image should be displayed inline or separated from the surrounding text. The default is inline. Allowable values are: inline or break.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

class, outputclass	Common attributes described in Other
	common DITA attributes

<image href="bike.gif" " placement="break"><alt>Two-wheeled bicycle</alt></image>

keyword

<keyword> represents a word or phrase with special significance in a particular domain. In the general case, <keyword> elements typically do not have any special semantics and processing associated with them, but can still be useful for organizing content for reuse or special processing. <keyword> specializations are more meaningful and are therefore preferable. <keyword> in the <keyword> element distinguishes a word or phrase that describes the content of a topic (a topic description keyword). Topic description keywords are typically used for searching, retrieval and classification purposes.

Specialized elements derived from <keyword> may also have extended processing, such as different formatting or automatic indexing. If the keyref attribute is used, or some other method of key-based lookup based on the value of the element itself, then the keyword can be turned into a hyperlink on output (not currently supported).

When DITA topics are output to XHTML, any <keyword> elements in the <keywords> element are placed in the Web page metadata.

Contains

(text data or tm) (any number)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance topic / keyword

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to associate the <keyword> with another topic that provides more details for that particular keyword.</keyword>	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate,	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable

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xml:lang)				
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

The <keyword>assert</keyword> pragma statement allows messages to be
passed
to the emulator, pre-compiler, etc..

Ιi

A list () item is a single item in an ordered or unordered list. When a DITA topic is formatted for output, numbers and alpha characters are usually output with list items in ordered lists, while bullets and dashes are usually output with list items in unordered lists.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or itemgroup or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

ul, ol

Inheritance

topic / li

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
This is an item in an unordered list.
```

lines

The respect to represent dialogs, lists, text fragments, and so forth.

The selement is similar to in that hard line breaks are preserved, but the font style is not set to monospace, and extra spaces inside the lines are not preserved.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body , section , example , desc , p , note , lq , li , itemgroup , dd , fig , stentry , draft-comment , fn , linkinfo , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , propdesc , pd

Inheritance topic / lines

Attributes

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
xml:space	This attribute is provided on <pre></pre>	(preserve)	#FIXED 'preserve'	Yes
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
On a trip to the beach, don't forget:
suntan lotion
sunglasses
a beach towel
```

lq

The long quote (<|q>) element indicates content quoted from another source. Use the quote element <q> for short, inline quotations, and long quote <|q> for quotations that are too long for inline use, following normal guidelines for quoting other sources. You can store a URL to the source of the quotation in the *href* attribute.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body , section , example , desc , p , note , li , itemgroup , dd , fig , stentry , draft-comment , fn , linkinfo , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , propdesc , pd

Inheritance topic / Iq

Name	Description	Data Type	Default Value	Required?
href	A hyperlink representing a bibliographic citation to resources that can be accessed by browsers (meaning a URL). The href attribute identifies the destination of the resource using conventional URL syntax.	CDATA	#IMPLIED	No
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
type	Indicates the location of the source of the quote. Allowable values are: external the href is to a Web site	(external internal bibliographic)	#IMPLIED	No
	internal			
	the href is to a DITA topic			
	bibliographic			
	the href is to a specialized bibliographic topic. Currently not supported in DITA.			
reftitle	The title of the document or topic being quoted.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at	parameter	PE not	Not

	%global-atts;	entity	applicable	applicable
class, outputclass	Common attributes described in Other common DITA attributes			

This is the first line of the address that
Abraham Lincoln delivered on November 19, 1863 for the dedication
of the cemetery at Gettysburg, Pennsylvania.
<lq>Four score and seven years ago our fathers brought forth on this
continent a new
nation, conceived in liberty, and dedicated to the proposition that all
men
are created equal.</lq>

note

A <note> element contains information, differentiated from the main text, which expands on or calls attention to a particular point.

Tip: Variant types of note (tip, caution, danger, restriction, etc.) can be indicated through values selected on the type attribute. This note is typed as a "tip."

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body , section , example , desc , p , lq , li , itemgroup , dd , fig , stentry , draft-comment , fn , linkinfo , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , propdesc , pd

Inheritance topic / note

Name	Description	Data Type	Default Value	Required?
type	Defines the type of a note. For example, if the note is a tip, the word Tip is used to draw the reader's attention to it. If type is set to other, the value of the othertype attribute is used. If you use othertype, there needs to be a stylesheet or transform override that does something with the information, or it will be ignored. Allowable values for the type attribute are: note This is just a note. attention Please pay extra attention to this	(note tip fastpath restriction important remember attention caution danger other)	"note"	No

DITA Language Reference	T		ı	1
	note.			
	caution			
	Care is required when			
	proceeding. For example:			
	anat a			
	<pre><note type="caution">Contents may be erased.</note></pre>			
	produces: CAUTION: You may reformat your hard drive.			
	danger			
	Important! Be aware of this before doing anything else. For example:			
	<pre><note type="danger">You may hurt yourself!</note></pre>			
	produces: DANGER: You may hurt yourself!			
	fastpath			
	This note will speed you on your way.			
	important			
	This note is important.			
	remember			
	Don't forget to do what this note says.			
	restriction			
	You can't do what this note says.			
	tip			
	This is a fine little tip.			
	other			
	This is something other than a normal note.			
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
othertype	Indicates an alternate note type, when the type is not available in the type attribute value list. This value is used as the user-provided note title when the type attribute value is set to "other."	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other			
L	I .			

common DITA attributes

Example

This example:

<note type="tip">Thinking of a seashore, green meadow, or cool
mountain overlook can help you to relax and be more
patient.

produces this result:

Tip: Thinking of a seashore, green meadow, or cool mountain overlook can help you to relax and be more patient.

object

DITA's <object> element corresponds to the HTML <object> element. The <object> element allows authors to include animated images, applets, plug-ins, ActiveX controls, video clips, and other multimedia objects in a topic for rendering after transformation to HTML.

Contains

((desc) (optional) then (param) (any number))

Contained by

body , section , example , p , note , lq , li , itemgroup , dd , fig , stentry , draft-comment , fn , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , pd

Inheritance

topic / object

Name	Description	Data Type	Default Value	Required?
declare	When this attribute is set to declare, the current object definition is a declaration only. The object must be instantiated by a later nested object definition referring to this declaration.			No
classid	Contains a URL that specifies the location of an object's implementation. It can be used together with the data attribute which is specified relative to the value of the codebase attribute.	CDATA	#IMPLIED	No
codebase	Specifies the base path (a URL) used for resolving the URL values given for classid, data, and archive attributes. If codebase is not set, the default is the base URL of the current document.	CDATA	#IMPLIED	No
data	Contains a reference to the location of an object's data. If this attribute is a URL, it is specified relative to the value of the codebase attribute. If this attribute is set, the type attribute should also be set.	CDATA	#IMPLIED	No

type	Indicates the content type for the data specified by the data attribute. This attribute should be set when the data attribute is set to avoid loading unsupported content types.	CDATA	#IMPLIED (No default type)	No
codetype	Indicates the content type for the data specified by the classid attribute. This attribute should be set when the classid attribute is set to avoid loading unsupported content types. If this attribute value is not set, the default is the value of the type attribute.	CDATA	#IMPLIED	No
archive	Specifies a space-separated list of URLs indicating resources needed by the object. These resources may include those URLs specified by the classid and data attributes. Preloading these resources usually results in faster loadtimes for objects. The URLs in the list should be relative to the URL specified in the codebase attribute.	CDATA	#IMPLIED	No
standby	Contains a message to be displayed while an object is loading.	CDATA	#IMPLIED	No
height	Indicates the maximum height of an image.	NMTOKEN	#IMPLIED	No
width	Indicates the maximum width of an image.	NMTOKEN	#IMPLIED	No
usemap	Indicates that a client-side image map is to be used. An image map specifies active geometric regions of an included object and assigns a link to each region. When a link is selected, a document may be retrieved or a program may run on the server.	CDATA	#IMPLIED	No
name	Submit the object as part of a form.	CDATA	#REQUIRED	Yes
tabindex	Position the object in tabbing order.	NMTOKEN	#IMPLIED	No
longdescref	A reference to a textual description of the graphic. This attribute supports creating accessible content.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

Output processors may need to modify data to enable compatible function across various browsers, so these examples are only representative:

```
Cutting the keys from the system unit:
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"</p>
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=6,0,0,0"
```

```
data="cutkey370.swf"
  type="application/x-shockwave-flash"
height="280"
width="370"
id="cutkey370">
  <desc>A description of the task</desc>
  <param name="movie" value="cutkey370.swf"/>
  <param name="quality" value="high"/>
  <param name="bgcolor" value="#FFFFFF"/>
  </object>
```

```
What's EIM?
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
    codebase="http://download.macromedia.com/pub/shockwave/cabs/
flash/swflash.cab#version=6,0,0,0"
    data="eim.swf"
    height="400"
    width="500"
    id="eim">
    <desc>Some great, glorious info</desc>
    sparam name="movie" value="eim.swf"/>
    <param name="quality" value="high"/>
    sparam name="bgcolor" value="#FFFFFF"/>
    sparam name="pluginspace"
    value="http://www.macromedia.com/go/getflashplayer"/>
</object>
```

ol

An ordered list () is a list of items sorted by sequence or order of importance.

Contains

(li) (one or more)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesc, pd

Inheritance

topic / ol

Name	Description	Data Type	Default Value	Required?
compact	Indicates close vertical spacing between the list items. Expanded spacing is the default value. The output result of compact spacing depends on the processor or browser. Allowed values are: yes Indicates compact spacing. no Indicates expanded spacing.	(yes no)	"yes"	No
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;,	A set of related attributes, described at	parameter	PE not	Not

DITA Language Reference

%id-atts;, translate, xml:lang)	%univ-atts;	entity	applicable	applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
Here are the colors of the rainbow in order of appearance from top to
bottom:

Red
Red<
```

p

A paragraph element () is a block of text containing a single main idea.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body, section, example, desc, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesch, pd

Inheritance

topic / p

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

param

The parameter (<param>)element specifies a set of values that may be required by an <object> at runtime. Any number of <param> elements may appear in the content of an object in any order, but must be placed at the start of the content of the enclosing object. This element is comparable to the XHMTL <param> element.

Contains

no content

Contained by

object

Inheritance

topic / param

Name	Description	Data Type	Default Value	Required?
name	The name of the parameter.	CDATA	#REQUIRED	Yes
id	The id of the parameter.	ID	#IMPLIED	No
value	Specifies the value of a run-time parameter specified by the name attribute.	CDATA	#IMPLIED	No
valuetype	Specifies the type of the value attribute. Allowed values are: data A value of data means that the value will be evaluated and passed to the object's implementation as a string.	CDATA	#IMPLIED	No
	A value of ref indicates that the value of valuetype is a URL that designates a resource where run-time values are stored. This allows support tools to identify URLs that are given as parameters.			
	object A value of object indicates that the value of valuetype is an identifier that refers to an object declaration in the document. The identifier must be the value of the			

	ID attribute set for the declared object element.			
type	This attribute specifies the content type of the resource designated by the value attribute only in the case where <i>valuetype</i> is set to "ref". This attribute specifies for the user agent the type of values that will be found at the URI designated by value.	CDATA	#IMPLIED (No default type)	
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

See object.

ph

The phrase (<ph>) element is used to organize content for reuse or conditional processing (for example, when part of a paragraph applies to a particular audience). It can be used by specializations of DITA to create semantic markup for content at the phrase level, which then allows (but does not require) specific processing or formatting.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

class, outputclass	Common attributes described in Other	
	common DITA attributes	

This was not changed. <ph rev="v5r2">This was updated.</ph> This was not.

pre

The preformatted element (preserves line breaks and spaces entered manually by the author in the content of the element, and also presents the content in a monospaced type font (depending on your output formatting processor). Do not use pre> when a more semantically specific element is appropriate, such as <codeblock>.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesch, pd

Inheritance

topic / pre

Attributes

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass, xml:space	Common attributes described in Other common DITA attributes			

Example

MEMO: programming team fun day Remember to bring a kite, softball glove, or other favorite outdoor accessory to tomorrow's fun day outing at Zilker Park. Volunteers needed for the dunking booth. q

A quotation element (<q>) indicates content quoted from another source. This element is used for short quotes which are displayed inline. Use the long quote element (<|q>) for quotations that should be set off from the surrounding text.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / q

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

George said, <q>Disengage the power supply before servicing the unit.</q>

sl

The simple list (<sl>) element contains a simple list of items of short, phrase-like content, such as in documenting the materials in a kit or package.

On output, the list should have no bullets, on the assumption that each item is short enough to fit on one line, and needs no additional differentiation from its neighbors.

Contains

(sli) (one or more)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesch, pd

Inheritance topic / sl

Attributes

Name	Description	Data Type	Default Value	Required?
compact	Indicates close vertical spacing between the list items. Expanded spacing is the default value. The output result of compact spacing depends on the processor or browser. Allowed values are: yes Indicates compact spacing. no Indicates expanded spacing.	(yes no)	"yes"	No
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

In a reference topic discussing related modules, the following sample markup could be used:

```
<section><title>Messages</title>
  Messages from the ags_open module are identical with messages
from:
  <sl>
    <sli>ags_read</sli>
    <sli>ags_write</sli>
    <sli>ags_close</sli>
  </sl>
  </section>
```

sli

A simple list item (<sli>) is a single item in a simple list<sl>. Simple list items have phrase or text content, adequate for describing package contents, for example. When a DITA topic is formatted for output, the items of a simple list are placed each on its own line, with no other prefix such as a number (as in an ordered list) or bullet (as in an unordered list).

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum

or varname or wintitle or tm or image or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

sl

Inheritance

topic / sli

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See sl.

ul

In an unordered list (), the order of the list items is not significant. List items are typically styled on output with a "bullet" character, depending on nesting level.

Contains

(li) (one or more)

Contained by

body , section , example , desc , p , note , lq , li , itemgroup , dd , fig , stentry , draft-comment , fn , linkinfo , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , propdesc , pd

Name	Description	Data Type	Default Value	Required?
compact	Indicates close vertical spacing between the list items. Expanded spacing is the default value. The output result of compact spacing depends on the processor or browser. Allowed values are: yes Indicates compact spacing. no Indicates expanded spacing.	(yes no)	"yes"	No
spectitle	The specialized title attribute allows architects of specialized types to define a	CDATA	#IMPLIED	No

	fixed or default title for a specialized element. Not intended for direct use by authors.			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
  This is an item in an unordered list.
  To separate it from other items in the list, the
formatter puts a bullet beside it.
  The following paragraph, contained in the list item
element, is part of the list item which contains it.
  This is the contained paragraph.

  This is the last list item in our unordered list.
```

xref

Use the cross-reference (<xref>) element to link to a different location within the current topic, or a different topic within the same help system, or to external sources, such as Web pages, or to a location in another topic. The *href* attribute on the <xref> element provides the location of the target.

Typically it is best to restrict yourself to linking to reference topics where the content of the target is clear from the <xref>'s text, for example API names and their descriptions. With other information types, it may be less clear to the user whether they should follow the link, and often they will, thereby missing important information in following paragraphs. Therefore it is a good idea to use links at the end of the topic, in the < related-links > element, wherever possible, rather than linking from within body content using <xref>. Links at the end of a topic can also be managed from outside the topic, using DITA maps: this allows topics to be quickly integrated into new contexts without breaking links.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image or desc) (any number)

Contained by

section , example , desc , p , note , lq , q , sli , li , itemgroup , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , synnote , area

Inheritance

topic / xref

Name	Description	Data Type	Default Value	Required?
href	A hyperlink to an external Web page (URL) or other non-DITA resource, to another DITA topic in the same file or in another file, or to a specific element inside a DITA topic. The format attribute identifies the format of the target. Non-DITA targets use standard URL syntax. DITA content is targetted as follows:	CDATA	#IMPLIED	No
	Target elsewhere in the same file: href="#topicID" href="#topicID/elemID Target in a different file: href="filename.dita#topicID" href="fname.dita#topicID/elemID"			
	Elements inside a topic need to have their location scoped by the containing topic's ID. Only the id of the target element and the topic that contains it matter: id's on any other containing elements (for example an id on the <body> element) are not part of the link syntax.</body>			
	If the URL contains an ampersand character, the ampersand symbol (&) should be used to indicate that character			
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
type	Describes the target of a cross-reference and may generate cross-reference text based on that description. Only the <xref> element can link to content below the topic level: other types of linking can target whole topics, but not parts of topics. Typically <xref> should also be limited to topic-level targets, unless the output is primarily print-oriented. Web-based referencing works best at the level of whole topics, rather than anchor locations within topics.</xref></xref>	CDATA	#IMPLIED (Processed as if the target were of type "topic.")	No
	When targetting DITA content, the type should match one of the values in the target's class attribute. For example, if type="topic", the link could be to a generic topic, or any specialization of topic, including concept, task, and reference.			
	Some possible values include: fig Indicates a link to a figure.			

	Г		1	
	table			
	Indicates a link to a table.			
	li			
	Indicates a link to an ordered list item.			
	fn			
	Indicates a link to a footnote.			
	section			
	"section" indicates a link to a section.			
	concept, task, reference, topic			
	Cross-reference to a topic type.			
	(no value)			
	Defaults to generic topic, or the processor may retrieve the actual type from the target if available.			
	Other values can be used to indicate other types of topics or elements as targets. Processing is only required to support the above list, or specializations of types in that list. Supporting additional types as targets may require the creation of processing overrides.			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita".	CDATA	#IMPLIED	No
	Possible values include:			
	dita			
	The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic."			
	html			
	The format of the linked-to resource is HTML or XHTML.			
	pdf			
	The format of the linked-to resource is PDF (opens a new window).			
	ditamap			
	The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within			

	referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy (no value) Defaults to "dita" For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)			
scope	The scope attribute identifies the closeness of the relationship between the current document and the target resource. • Set scope to local when the resource is part of the current set of content, and should be accessed and copied to the output directory. • Set scope to peer when the resource is part of the current set of content but is not accessible at build time. • Set scope to external when the resource is not part of the current information set and should open in a new browser window. The default is local.	(local peer external)	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Here's an example of a cross-reference to another topic; that topic's title will be used as the link text.

Here's an example of a cross-reference to another topic; the supplied text will be used as the link text

```
<xref href="whatsdita.dita#tmmdita">Background information about DITA</xref> is provided free of charge.
```

If you are linking to anything within a topic, you should use the following format in the href attribute:

```
filename.xml#topicid/elementid
```

If you are linking within the same file, you can leave off the "filename.xml" part. So, for a section with the ID "mysection", you should use:

```
#topicid/mysection
```

For a list item within that section, assuming the item has an ID of "mylist", use

#topicid/mylist

Regardless of how deeply the target element is nested, the only important pieces are the ID of the containing topic, and the ID of the target element. IDs of topics in DITA must be unique within a file, but IDs of other elements only need to be unique within the topic. You need to be sure that the topic ID is part of your reference.

If your URL has an ampersand in it, you need to code that using a symbol. For example; for this URL:

http://www.ibm.com/docview.wss?rs=757&context=SSVNX5

You need to enter the & p; in the Href attribute as follows:

<xref href="http://www.ibm.com/docview.wss?rs=757&context=SSVNX5">
Part number SSVNX5/

Table elements

DITA topics support two types of tables. One is the most common table format used in industry, the <CALS table> (or more recently known also as the Oasis Table Exchange Model). The CALS table supports the spanning of multiple rows or columns for special layout or organizational needs, and provides a wide variety of controls over the display properties of the data and even the table structure itself.

The other table structure in DITA is called <simpletable>. As the name implies, it is structurally less sophisticated than the CALS table, and can be used as a very simple, regular table for which close control of formatting is not as important. However, the main advantage of simpletable is for describing lists of data with regular headings, such as telephone directory listings, display adapter configuration data, or API properties.

table

The element organizes arbitrarily complex relationships of tabular information. This standard table markup allows column or row spanning and table captions or descriptions. An optional title allowed inside the table element provides a caption to describe the table. See simpletable for a simplified table model that can be specialized to represent more regular relationships of data.

The DITA table is based on the OASIS Exchange Table Model, augmented with DITA attributes which enable it for specialization, conref, and other DITA processing. In addition, the table includes a desc element, which enables table description that is parallel with figure description.

In DITA tables, in place of the expanse attribute used by other DITA elements, the pgwide attribute is used instead, to conform with the OASIS Exchange Table Model. This attribute has a similar semantic (1=page width; 0=resize to galley or column).

Note: The scale attribute represents a stylistic markup property that is maintained for now in tables for legacy purposes. External stylesheets should enable less dependency on this attribute. You should use the scale attribute judiciously in your topics.

Contains

(((title) (optional) then (desc) (optional)) (optional) then (tgroup) (one or more))

Contained by

body , section , example , p , note , lq , li , itemgroup , dd , draft-comment , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , stepresult , result , postreq , refbody , refsyn , pd $\,$

Inheritance

topic / table

Name	Description	Data Type	Default Value	Required?
scale, frame	Described at %display-atts;	parameter entity	PE not applicable	Not applicable
pgwide	Determines the horizontal placement of the element. Supported values are 1 for page width, or 0 for resize to galley or	(0 1)	#IMPLIED	No

	column.			
colsep	Column separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
rowsep	Row separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
rowheader	This attribute specifies whether the content of the first column in a table contains row headings. In the same way that a column header introduces a table column, the row header introduces the table row. This attribute makes tables whose first column contains row headings more readable on output. Allowable values are: firstcol The first column contains the row headings.	(firstCol norowheader)	#IMPLIED	No
	norowheader Indicates that no column contains row headings. This is the default.			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example Source:

```
<tgroup cols="2">
<colspec colname="COLSPECO" colwidth="121*"/>
<colspec colname="COLSPECI" colwidth="76*"/>
<thead>
<row>
<entry colname="COLSPECO" valign="top">Animal</entry>
<entry colname="COLSPECI" valign="top">Gestation</entry>
</row>
</row>
</row>
<entry>Elephant (African and Asian)</entry>
<entry>19-22 months</entry>
</row>
<entry>Giraffe</entry>
<entry>Giraffe</entry>
<entry>15 months</entry>
</row>
<entry>Rhinoceros</entry>
<entry>14-16 months</entry>
</row>
<entry>Hippopotamus</entry>
</row>
<entry>7 1/2 months</entry>
</tooh>
```

Formatted output:

Animal	Gestation
Elephant (African and Asian)	19-22 months
Giraffe	15 months
Rhinoceros	14-16 months
Hippopotamus	7 1/2 months

tgroup

The <tgroup> element in a table contains column, row, spanning, header and footer specifications, and the body () of the table.

Contains

((colspec) (any number) then (thead) (optional) then tbody)

Contained by

table

Inheritance

topic / tgroup

Name	Description	Data Type	Default Value	Required?
cols	Indicates the number of columns in a <tgroup> in a table.</tgroup>	NMTOKEN	#REQUIRED	No
colsep	Column separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
rowsep	Row separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
align	Describes the alignment of text in a table column. Allowable values are: left Indicates left alignment of the text.	(left right center justify char)	#IMPLIED	No
	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.			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

class, outputclass	Common attributes described in Other	
	common DITA attributes	

See table.

thead

The table header (<thead>) element precedes the table body () element in a complex table.

Contains

((row) (one or more))

Contained by

tgroup

Inheritance

topic / thead

Attributes

Name	Description	Data Type	Default Value	Required?
valign	Indicates the vertical alignment of text in a table entry (cell). Allowable values are: top	(top bottom middle)	"top"	No
	Align the text to the top of the table entry (cell).			
	bottom			
	Align the text to the bottom of the table entry (cell).			
	middle			
	Align the text to the middle of the table entry (cell).			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See table.

stentry

The simpletable entry (<stentry>) element represents a single table cell, like <entry> in . You can place any number of stentry cells in either an sthead element (for headings) or strow element (for rows of data).

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

sthead, strow

Inheritance

topic / stentry

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
specentry	The specialized entry attribute allows architects of specialized types to define a fixed or default header title for a specialized stentry element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See simpletable.

colspec

The <colspec> element contains a column specification for a table, including assigning a column name and number, cell content alignment, and column width.

Contains

no content

Contained by

tgroup

Inheritance

topic / colspec

Name	Description	Data Type	Default Value	Required?
colnum	Indicates the number of a column in the	NMTOKEN	#IMPLIED	No

DITA Language Reference				
	table, counting from the first logical column to the last column.			
colname	Specifies the table column name in which an entry is found.	NMTOKEN	#IMPLIED	No
align	Describes the alignment of text in a table column. Allowable values are: left Indicates left alignment of the	(left right center justify char)	#IMPLIED	No
	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	alignment character	CDATA	#IMPLIED	No
	Default source for entry elements starting in this column. If character alignment is specified, the value is the single alignment character source for any implied char values for entry immediately in this column. A value of "" (the null string) means there is no aligning character.			
charoff	horizontal offset of alignment character when align=char	NMTOKEN	#IMPLIED	No
	Default source for entry elements starting in this column. For character alignment on an entry in the column, horizontal character offset is the percent of the current column width to the left of the (left edge of the) alignment character.			
	This value should be number, greater than 0 and less than or equal to 100.			
colwidth	Describes the column width.	CDATA	#IMPLIED	No
colsep	Column separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
rowsep	Row separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			
	1	1		

See table.

tbody

The element contains the rows in a table.

Contains

(row) (one or more)

Contained by

tgroup

Inheritance

topic / tbody

Attributes

Name	Description	Data Type	Default Value	Required?
valign	Indicates the vertical alignment of text in a table entry (cell). Allowable values are: top	(top bottom middle)	"top"	No
	Align the text to the top of the table entry (cell).			
	bottom			
	Align the text to the bottom of the table entry (cell).			
	middle			
	Align the text to the middle of the table entry (cell).			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See table.

row

The <row> element contains a single row in a table <tgroup>.

Contains

((entry) (one or more))

Contained by

thead, tbody

Inheritance

topic / row

Attributes

Name	Description	Data Type	Default Value	Required?
rowsep	Row separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
valign	Indicates the vertical alignment of text in a table entry (cell). Allowable values are: top Align the text to the top of the table entry (cell).	(top bottom middle)	"top"	No
	Align the text to the bottom of the table entry (cell).			
	middle Align the text to the middle of the table entry (cell).			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See table.

entry

The <entry> element defines a single cell in a table.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

row

Inheritance

topic / entry

	Name	Description	Data Type	Default Value	Required?
п				value	

colnum	Indicates the number of a column in the table, counting from the first logical column to the last column.	NMTOKEN	#IMPLIED	No
colname	Specifies the table column name in which an entry is found.	NMTOKEN	#IMPLIED	No
namest	Specifies the first logical column that is included in a horizontal span.	NMTOKEN	#IMPLIED	No
nameend	Specifies the last logical column that is included in a horizontal span.	NMTOKEN	#IMPLIED	No
spanname	Indicates the name and definition of a horizontal span.	NMTOKEN	#IMPLIED	No
morerows	Specifies the number of additional rows to add in a vertical span.	NMTOKEN	"0"	No
colsep	Column separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
rowsep	Row separator. A value of 0 indicates no separators; 1 indicates separators.	NMTOKEN	"0"	No
valign	Indicates the vertical alignment of text in a table entry (cell). Allowable values are: top Align the text to the top of the table entry (cell). bottom Align the text to the bottom of the	(top bottom middle)	"top"	No
	table entry (cell). middle Align the text to the middle of the table entry (cell).			
align	Describes the alignment of text in a table column. Allowable values are: 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.	(left right center justify char)	#IMPLIED	No
char	alignment character Default source for entry elements starting in this column. If character alignment is specified, the value is the single alignment character source for any implied char values for entry immediately in this column. A value of	CDATA	#IMPLIED	No

	"" (the null string) means there is no aligning character.			
charoff	horizontal offset of alignment character when align=char	NMTOKEN	#IMPLIED	No
	Default source for entry elements starting in this column. For character alignment on an entry in the column, horizontal character offset is the percent of the current column width to the left of the (left edge of the) alignment character. This value should be number, greater than 0 and less than or equal to 100.			
%id-atts; (id, conref)	A set of related attributes, described at %id-atts;	parameter entity	PE not applicable	Not applicable
rev	Indicates revision level of an element. It is useful for flagging outputs based on revision.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

See table.

simpletable

The <simpletable> element is used for tables that are regular in structure and do not need a caption. Choose the simple table element when you want to show information in regular rows and columns. For example, multi-column tabular data such as phone directory listings or parts lists are good candidates for simpletable. Another good use of simpletable is for information that seems to beg for a "three-part definition list"—just use the keycol attribute to indicate which column represents the "key" or term-like column of your structure.

This close match of simpletable to tabular, regular data makes simpletable suitable as the basis for specialized structures such as properties (for programming information) and choice tables (for tasks).

Contains

((sthead) (optional) then (strow) (one or more))

Contained by

body , section , example , p , note , lq , li , itemgroup , dd , fig , draft-comment , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , stepresult , result , postreq , refbody , refsyn , pd

Inheritance

topic / simpletable

Name	Description	Data Type	Default Value	Required?
relcolwidth	A relative value to specify the width of a column in relationship to the width of the other columns for print output . The values are totaled and made a percent. For example: relcolwidth="1* 2* 3*" causes widths of 16.7%, 33.3%, and 66.7%. relcolwidth="90* 150*" causes width of 37.5% and 62.5%.	CDATA	#IMPLIED	No
keycol	Defines the column that will be used for row headings. No value indicates no key column. When present, the numerical value causes the specified column to be highlighted as a vertical header.	NMTOKEN	#IMPLIED	No
refcols	Designates columns that contain references, and are candidates for automated linking (not currently supported). Columns are identified by a comma-delimited list of numbers (for example: 1, 3).	NMTOKENS	#IMPLIED	No
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example Source:

```
<strow>
  <stentry>Underlined</stentry>
  <stentry>u</stentry>
  </strow>
</simpletable>
```

Formatted output:

Type style	Elements used
Bold	b
Italic	i
Underlined	u

sthead

The simpletable header (<sthead>) element contains the table's header row. The header row is optional in a simple table.

Contains

(stentry) (one or more)

Contained by

simpletable

Inheritance

topic / sthead

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See simpletable.

strow

The <simpletable> row (<strow>) element specifies a row in a simple table. table .

Contains

(stentry) (any number)

Contained by

simpletable

Inheritance

topic / strow

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

ExampleSee simpletable.

Domain elements

The base release of the DITA authoring DTDs includes specialized content elements from four particular subject domains:

- 1. programming related terms and structures
- 2. software related terms and structures
- 3. user interface related terms and structures
- 4. common word-processor like capabilities (to support the correct typographic convention for as-yet-unintroduced domain vocabulary)

Typographic elements

The typographic elements are used to highlight text with styles (such as bold, italic, and monospace). Never use these elements when a semantically specific element is available. These elements are not intended for use by specializers, and are intended solely for use by authors when no semantically appropriate element is available and a formatting effect is required.

b

The bold () element is used to apply bold highlighting to the content of the element. Use this element only when there is not some other more proper element. For example, for specific items such as GUI controls, use the < uicontrol > element. This element is part of the DITA highlighting domain.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , hi-d / b

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

STOP! This is very important!

i

The italic (<i>) element is used to apply italic highlighting to the content of the element. Use this element only when there is not some other more proper tag. For example, for specific items such as GUI controls, use the uicontrol tag. Italic highlighting generally means a font that is slanted for emphasis, but this may vary depending on your output formatting process. This element is part of the DITA highlighting domain.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , hi-d / i

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

Unplug the unit <i>before</i> placing the metal screwdriver against the terminal screw.

u

The underline (<u>) element is used to apply underline highlighting to the content of the element. Use this element only when there is not some other more proper tag. This element is part of the DITA highlighting domain.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or g or

boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , hi-d / u

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
Beware: <u>overuse</u> <i>of</i> <b>highlighting</b> is
sometimes known as font-itis!
```

tt

The teletype (<tt>) element is used to apply monospaced highlighting to the content of the element. Use this element only when there is not some other more proper tag. This element is part of the DITA highlighting domain.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , hi-d / tt

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Make sure that the screen displays <tt>File successfully created</tt>before proceeding to the next stage of the task.

(Tag purists may delight to point out that this example could be more correctly marked with the msqph element.)

sup

The superscript (<sup>) element indicates that text should be superscripted, or vertically raised in relationship to the surrounding text. Superscripts are usually a smaller font than the surrounding text. Use this element only when there is not some other more proper tag. This element is part of the DITA highlighting domain.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , hi-d / sup

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

The power produced by the electrohydraulic dam was 10¹⁰ more than the older electric plant. The difference was H₂0.

sub

A subscript (<sub>) indicates that text should be subscripted, or placed lower in relationship to the surrounding text. Subscripted text is often a smaller font than the surrounding text. Formatting may vary depending on your output process. This element is part of the DITA highlighting domain.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , hi-d / sub

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

The power produced by the electrohydraulic dam was 10¹⁰ more than the older electric plant. The difference was H₂0.

Programming elements

The programming domains elements are used to define the syntax and to give examples of programming languages.

codeph

The code phrase (<codeph>) element represents a snippet of code within the main flow of text. The code phrase is displayed in a monospaced font for emphasis. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , synph , pt , pd , fragref , synnote

Inheritance

topic / ph , pr-d / codeph

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

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

codeblock

The <codeblock> element represents lines of program code. Like the element, content of this element has preserved line endings and is output in a monospaced font. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesc, pd

Inheritance

topic / pre , pr-d / codeblock

Attributes

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass, xml:space	Common attributes described in Other common DITA attributes			

Example

```
<codeblock>
/* a long sample program */
Do forever
   Say "Hello, World"
End
</codeblock>
```

option

The <option> element describes an option that can be used to modify a command (or something else, like a configuration). This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , synph , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword , pr-d / option

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

something <option>/modifier</option>

kwd

The <kwd> element defines a keyword within a syntax diagram. A keyword must be typed or output, either by the user or application, exactly as specified in the syntax definition. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data)

Contained by

synph, groupseq, groupchoice, groupcomp

Inheritance

topic / keyword, pr-d / kwd

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to associate the <kwd> with another topic that provides more details for that particular keyword.</kwd>	NMTOKEN	#IMPLIED	No
importance	The attribute indicates whether a variable is optional, required, or default.	optional required default	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable

%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<syntaxdiagram frame="bottom">
    <title>CopyFile</title>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupcomp><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
    <groupseq><var>output-filename</var><kwd>*OUTFILE</kwd></groupseq>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><var>output-filename</var><kwd>*OUTFILE</kwd></groupchoice>
<groupchoice><var>output-filename</var><kwd>*OUTFILE</kwd></groupchoice>
</syntaxdiagram>
```

var

Within a syntax diagram, the <var> element defines a variable for which the user must supply content, such as their user name or password. It is represented in output in an italic font. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

synph, groupseq, groupchoice, groupcomp

Inheritance

topic / ph , pr-d / var

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether a variable is optional, required, or default.	optional required default	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram frame="bottom">
    <title>CopyFile</title>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupcomp><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
    <groupseq><var>output-filename</var><kwd>*0UTFILE</kwd></groupseq>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><var>output-filename</var><kwd>*UTFILE</kwd></groupchoice>
</groupchoice>
</groupchoice>
</syntaxdiagram>
```

parmname

When referencing the name of an application programming interface parameter within the text flow of your topic, use the parameter name (<parmname>) element to markup the parameter. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , synph , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword, pr-d / parmname

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

Use the <parmname>/env</parmname> parameter of the <cmdname>config</cmdname> command to update the field value.

synph

The syntax phrase (<synph>) element is a container for syntax definition elements. It is used when a complete syntax diagram is not needed, but some of the syntax elements, such as kwd, oper, delim, are used within the text flow of the topic content. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or codeph or option or parmname or var or kwd or oper or delim or sep or synph) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , synph , pt , pd , fragref , synnote

Inheritance

topic / ph , pr-d / synph

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

<synph><kwd>format</kwd> <var>volumename</var></synph>

oper

The operator (<oper>) element defines an operator within a syntax definition. Typical operators are equals (=), plus (+) or multiply (*). This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

synph, groupseq, groupchoice, groupcomp

Inheritance

topic / ph , pr-d / oper

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether a variable is optional, required, or default.	optional required default	#IMPLIED	No

DITA Language Reference

%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram>
  <title>Adding</title>
  <groupseq><kwd>1</kwd><oper>+</oper><var>two</var>
<delim>=</delim><kwd>something</kwd>
  </groupseq>
</syntaxdiagram>
```

delim

Within a syntax diagram, the delimiter (<delim>) element defines a character marking the beginning or end of a section or part of the complete syntax. Typical delimiter characters are the parenthesis, comma, tab, vertical bar or other special characters. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

synph, groupseq, groupchoice, groupcomp

Inheritance

topic / ph , pr-d / delim

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether the element it modifies is optional or required.	optional required	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram>
<title>Adding</title>
<groupseq><kwd>1</kwd><oper>+</oper><var>two</var><delim>=</delim>
<kwd>something</kwd>
</groupseq>
</syntaxdiagram>
```

sep

The separator (<sep>) element defines a separator character that is inline with the content of a syntax diagram. The separator occurs between keywords, operators or groups in a syntax definition. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

synph, groupseq, groupchoice, groupcomp

Inheritance

topic / ph , pr-d / sep

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether the element it modifies is optional or required.	optional required	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram>
  <title>Adding</title>
  <groupseq><kwd>1</kwd><oper>+</oper><sep>(</sep><var>two</var><sep>)</sep>
<delim>=</delim><kwd>something</kwd></groupseq>
</syntaxdiagram>
```

apiname

The <apiname> element provides the name of an application programming interface (API) such as a Java class name or method name. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder ,

category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword, pr-d / apiname

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

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

parml

The parameter list (<parml>) element contains a list of terms and definitions that describes the parameters in an application programming interface. This is a special kind of definition list that is designed for documenting programming parameters. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(plentry) (one or more)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesch, pd

Inheritance

topic / dl , pr-d / parml

Name	Description	Data Type	Default Value	Required?

compact	Indicates close vertical spacing between the list items. Expanded spacing is the default value. The output result of compact spacing depends on the processor or browser. Allowed values are: yes Indicates compact spacing. no Indicates expanded spacing.	(yes no)	"yes"	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example source:

Example output:

This code example is a basic method signature:

```
returnType methodName(pList1, pList2) {
where
```

where pList1

is the first variable declaration passed to methodName

pList2

is the second variable declaration passed to methodName

plentry

The parameter list entry element (<plentry>) contains one or more parameter terms and definitions (pd and pt). This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

((pt) (one or more) then (pd) (one or more))

Contained by

parml

Inheritance

topic / dlentry, pr-d / plentry

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See parml.

pt

A parameter term, within a parameter list entry, is enclosed by the <pt> element. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or image) (any number)

Contained by

plentry

Inheritance

topic / dt , pr-d / pt

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other			

common DITA attributes

Example

See parml.

pd

A parameter definition, within a parameter list entry, is enclosed by the <pd> element. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or itemgroup or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

plentry

Inheritance

topic / dd , pr-d / pd

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

See parml.

syntaxdiagram

The syntax diagram (<syntaxdiagram>) element is the main container for all the syntax elements that make up a syntax definition. The syntax diagram represents the syntax of a statement from a computer language, or a command, function call or programming language statement. Traditionally, the syntax diagram is formatted with "railroad tracks" that connect the units of the syntax together, but this presentation may differ depending on the output media. The syntax diagram element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

((title) (optional) then (groupseq or groupchoice or groupcomp or fragref or fragment or synblk or synnote or synnoteref) (any number))

Contained by

body, section, example, p, note, lq, li, itemgroup, dd, stentry, draft-comment, fn, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, pd

Inheritance

topic / fig , pr-d / syntaxdiagram

Attributes

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram>
  <title>CopyFile</title>
  <groupseq><kwd>COPYF</kwd></groupseq>
  <groupcomp><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
  <groupseq><var>output-filename</var><kwd>*OUTFILE</kwd></groupseq>
  <groupchoice> <var>input-filename</var> <kwd>*INFILE</kwd></groupchoice>
  <groupchoice> <var>output-filename</var> <kwd>*INFILE</kwd></groupchoice>
  <kwd>*OUTFILE</kwd></groupchoice>
  <kwd>*OUTFILE</kwd></groupchoice>
  <kwd>*OUTFILE</kwd></groupchoice>
  <kwd>*OUTFILE</kwd></groupchoice>
```

synblk

The syntax block (<synblk>) element organizes small pieces of a syntax definition into a larger piece. The syntax block element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

((title) (optional) then (groupseq or groupchoice or groupcomp or fragref or fragment or synnote or synnoteref) (any number)

Contained by

syntaxdiagram

Inheritance

topic / figgroup, pr-d / synblk

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;,	A set of related attributes, described at	parameter	PE not	Not

DITA Language Reference

%id-atts;, translate, xml:lang)	%univ-atts;	entity	applicable	applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<synblk>
<groupseq><kwd>this</kwd><sep>-</sep><kwd>is</kwd><sep>-</sep><kwd>a</kwd>
<sep>-</sep><kwd>a</kwd>
</sep>-</sep><kwd>a</kwd>
</sep>

<p
```

groupseq

The <groupseq> element is part of the subset of elements that define syntax diagrams in DITA. A group is a logical set of pieces of syntax that go together. Within the syntax definition, groups of keywords, delimiters and other syntax units act as a combined unit, and they occur in a specific sequence, as delimited by the <groupseq> element. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

((title) (optional) then (repsep) (optional) then (groupseq or groupchoice or groupcomp or fragref or kwd or var or delim or oper or sep or synnote or synnoteref) (any number)

Contained by

syntaxdiagram, synblk, groupseq, groupchoice, groupcomp, fragment

Inheritance

topic / figgroup, pr-d / groupseq

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether a variable is optional, required, or default.	optional required default	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram frame="bottom">
  <title>CopyFile</title>
  <groupseq><kwd>COPYF</kwd></groupseq>
  <groupcomp><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
```

```
<groupseq><var>output-filename</var><kwd>*OUTFILE</kwd></groupseq>
<groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
<groupchoice><var>output-filename</var><kwd>*OUTFILE</kwd></groupchoice>
</syntaxdiagram>
```

groupchoice

The <groupchoice> element is part of the subset of elements that define syntax diagrams in DITA. A group is a logical set of pieces of syntax that go together. A group choice specifies that the user must make a choice about which part of the syntax to use. Groups are often nested. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

((title) (optional) then (repsep) (optional) then (groupseq or groupchoice or groupcomp or fragref or kwd or var or delim or oper or sep or synnote or synnoteref) (any number))

Contained by

syntaxdiagram, synblk, groupseq, groupchoice, groupcomp, fragment

Inheritance

topic / figgroup, pr-d / groupchoice

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether a variable is optional, required, or default.	optional required default	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram frame="bottom">
    <title>CopyFile</title>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupcomp><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
    <groupseq><var>output-filename</var><kwd>*0UTFILE</kwd></groupseq>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupseq>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><var>output-filename</var><kwd>*0UTFILE</kwd></groupchoice>
</syntaxdiagram>
```

groupcomp

The <groupcomp> element is part of the subset of elements that define syntax diagrams in DITA. A group is a logical set of pieces of syntax that go together. The group composite means that the items that make up the syntax diagram will be formatted close together rather than being separated by a horizontal or vertical line, which is the usual formatting method. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference

information.

Contains

((title) (optional) then (repsep) (optional) then (groupseq or groupchoice or groupcomp or fragref or kwd or var or delim or oper or sep or synnote or synnoteref) (any number))

Contained by

syntaxdiagram, synblk, groupseq, groupchoice, groupcomp, fragment

Inheritance

topic / figgroup, pr-d / groupcomp

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether a variable is optional, required, or default.	optional required default	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<syntaxdiagram frame="bottom">
    <title>CopyFile</title>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupcomp><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
    <groupseq><var>output-filename</var><kwd>*OUTFILE</kwd></groupseq>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><yar>output-filename</var><kwd>*OUTFILE</kwd></groupchoice>
</syntaxdiagram>
```

fragment

Within a syntax definition, a <fragment> is a labeled subpart of the syntax. The <fragment> element allows breaking out logical chunks of a large syntax diagram into named fragments. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

((title) (optional) then (groupseq or groupchoice or groupcomp or fragref or synnote or synnoteref) (any number))

Contained by

syntaxdiagram, synblk

Inheritance

topic / figgroup, pr-d / fragment

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<syntaxdiagram frame="none">
    <title>CopyFile</title>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupseqp><kwd>copyFile</filename</var><kwd>*INFILE</kwd></groupcomp>
    <groupseq><var>output-filename</var><kwd>*OUTFILE</kwd></groupseq>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><var>output-filename</var><kwd>*OUTFILE</kwd></groupchoice>
    <groupchoice><kwd>*OUTFILE</kwd></groupchoice>
    <fragment>
    <groupchoice><kwd>*Prompt</kwd></groupchoice>
</fragment>
</fragment>
</syntaxdiagram>
```

fragref

The fragment reference (<fragref>) element provides a logical reference to a syntax definition fragment so that you can reference a syntax fragment multiple times. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

syntaxdiagram, synblk, groupseq, groupchoice, groupcomp, fragment

Inheritance

topic / xref, pr-d / fragref

Name	Description	Data Type	Default Value	Required?
href	A reference to a syntax diagram fragment element. The href attribute uses conventional URL syntax to point to the ID of the matching syntax diagram fragment: href="#topicid/fragmentid"	CDATA	#IMPLIED	No
importance	The attribute indicates whether the element it modifies is optional or required.	optional required	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at	parameter	PE not	Not

	%univ-atts; , but without the importance attribute	entity	applicable	applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

This markup example:

```
<syntaxdiagram frame="none">
    <title>CopyFile</title>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupseq><kwd>COPYF</kwd></groupseq>
    <groupseq><var>input-filename</var><kwd>*INFILE</kwd></groupcomp>
    <groupseq><var>output-filename</var><kwd>*OUTFILE</kwd></groupseq>
    <fragref href="#syntax/overlay"></fragref>
    <groupchoice><var>input-filename</var><kwd>*INFILE</kwd></groupchoice>
    <groupchoice><var>output-filename</var><kwd>*OUTFILE</kwd></groupchoice>
    <fragment id="overlay">
         <title>Overlay</title>
         <groupchoice><kwd>*OVERLAP</kwd><*Prompt</kwd></groupchoice>
</fragment>
</syntaxdiagram>
```

produces the following output:

synnote

The syntax note (<synnote>) element contains a note (similar to a footnote) within a syntax definition group or fragment. The syntax note explains aspects of the syntax that cannot be expressed in the markup itself. The note will appear at the bottom of the syntax diagram instead of at the bottom of the page. The syntax block element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm) (any number)

Contained by

syntaxdiagram, synblk, groupseq, groupchoice, groupcomp, fragment

Inheritance

topic / fn , pr-d / synnote

Name	Description	Data Type	Default Value	Required?
callout	Specifies what character is used for the	CDATA	#IMPLIED	No

	footnote link, for example a number or an alpha character. Numbers are the default. You could also specify a graphic for the footnote callout during output processing.			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

<groupcomp><var>one</var><two</var><three</var></groupcomp>
<synnote>My first syntax note.

synnoteref

The syntax note (<synnoteref>) reference element references a syntax note element (<synnote>) that has already been defined elsewhere in the topic. The same notation can be used in more than one syntax definition. The syntax note reference element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

no content

Contained by

syntaxdiagram, synblk, groupseq, groupchoice, groupcomp, fragment

Inheritance

topic / xref , pr-d / synnoteref

Attributes

Name	Description	Data Type	Default Value	Required?
href	Points to the target syntax note (<synnote>), which must be in the same syntax diagram. Use standard DITA href syntax for targetting the element: href="#topicid/synnoteid"</synnote>	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

<synnoteref href="#topicid/mysyn"/>

repsep

The repeat separator (<repsep>) element in a syntax diagram defines a group of syntax elements that can (or should) be repeated. If the <repsep> element contains a separator character, such as a plus (+), this indicates that the character must be used between repetitions of the syntax elements. This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

groupseq, groupchoice, groupcomp

Inheritance

topic / ph , pr-d / repsep

Attributes

Name	Description	Data Type	Default Value	Required?
importance	The attribute indicates whether the element it modifies is optional or required.	optional required	#IMPLIED	No
%univ-atts-no-importance	A set of related attributes, described at %univ-atts; , but without the importance attribute	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Software elements

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

msgph

The message phrase (<msgph>) element contains the text content of a message produced by an application or program. It can also contain the variable name (varname) element to illustrate where variable text content can occur in the message. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , sw-d / msgph

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

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

msgblock

The message block (<msgblock>) element contains a multi-line message or set of messages. The message block can contain multiple message numbers and message descriptions, each enclosed in a <msgnum> and <msgph> element. It can also contain the message content directly. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesch, pd

Inheritance

topic / pre , sw-d / msgblock

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable

%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass, xml:space	Common attributes described in Other common DITA attributes			

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

msgnum

The message number (<msgnum>) element contains the number of a message produced by an application or program. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword, sw-d / msgnum

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No

%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

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

cmdname

The command name (<cmdname>) element specifies the name of a command when it is part of a software discussion. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword, sw-d / cmdname

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to associate the <cmdname> with the reference topic for the command, if the command name itself isn't sufficient.</cmdname>	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

varname

The variable name (<varname>) element defines a variable that must be supplied to a software application. The variable name element is very similar to the variable (var) element, but variable name is used outside of syntax diagrams. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword, sw-d / varname

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

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

filepath

The <filepath> element indicates the name and optionally the location of a referenced file by specifying the directory containing the file, and other directories that may precede it in the system hierarchy. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , sw-d / filepath

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
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.
```

userinput

The user input (<userinput>) element represens the text a user should input in response to a program or system prompt. This element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , sw-d / userinput

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

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

systemoutput

The system output (<systemoutput>) element represents computer output or responses to a command or situation. A generalized element, it represents any kind of output from the computer, so the author may wish to choose more specific markup, such as msgph, for messages from the application. The system output element is part of the DITA software domain, a special set of DITA elements designed to document software tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , sw-d / systemoutput

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

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

User interface elements

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

uicontrol

The user interface control (<uicontrol>) element is used to mark up names of buttons, entry fields, menu items, or other objects that allow the user to control the interface. Use the <uicontrol> element inside a <menucascade> element to identify a sequence of menu choices in a nested menu, such as **File** --> **New** . This element is part of the DITA user interface domain, a special set of DITA elements designed to document user interface tasks, concepts and reference information.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term or image or shortcut) (any number)

Contained by

title, shortdesc, section, example, desc, p, note, lq, q, sli, li, itemgroup, dthd, ddhd, dt, dd, figgroup, pre, lines, ph, stentry, draft-comment, fn, cite, xref, linkinfo, entry, prereq, context, cmd, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, proptype, propvalue, propdesc, menucascade, screen, b, u, i, tt, sup, sub, codeph, codeblock, pt, pd, fragref, synnote

Inheritance

topic / ph , ui-d / uicontrol

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

Press the **<uicontrol>**OK**</uicontrol>** button.

wintitle

The window title <wintitle> element can be used to mark up names of windows or dialogs, or other user interface elements at the same level of grouping, including wizard titles, wizard page titles, and window pane titles. This element is part of the DITA user interface domain, a special set of DITA elements designed to document user interface tasks, concepts and reference information.

Contains

(text data)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , keywords , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / keyword, ui-d / wintitle

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

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

menucascade

The <menucascade> element is used to document a series of menu choices. The <menucascade> element contains one or more user interface control (<uicontrol>) elements, for example: Start > Programs > Accessories > Notepad. If there is more than one <uicontrol> element, the formatter shows connecting characters between the menu items to represent the menu cascade. This element is part of the DITA user interface domain, a special set of DITA elements designed to document user interface tasks, concepts and reference information.

Contains

(uicontrol) (one or more)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , figgroup , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / ph , ui-d / menucascade

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

This example:

```
<menucascade>
  <uicontrol>Start</uicontrol>
  <uicontrol>Programs</uicontrol>
  <uicontrol>Accessories</uicontrol>
  <uicontrol>Notepad</uicontrol>
  </menucascade>
```

produces this output: Start --> Programs --> Accessories --> Notepad

shortcut

The <shortcut> element identifies a keyboard shortcut for a menu or window action. This element is part of the DITA user interface domain, a special set of DITA elements designed to document user interface tasks, concepts and reference information.

Contains

(text data)

Contained by

uicontrol

Inheritance

topic / keyword, ui-d / shortcut

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

This example:

```
<menucascade>
    <uicontrol>Start</uicontrol>
    <uicontrol><shortcut>P</shortcut>rograms</uicontrol>
</menucascade>
```

produces the following reusult: Start --> Programs

screen

The <screen> element contains or refers to a textual representation of a computer screen or user interface panel (window).

Use <screen> to contain representations of text-based online panels, text consoles ("term" or "curses" windows, for example), or other text-based user interface components. The default print representation is to enclose the screen within a box, suggesting a computer display screen. In contrast to graphical screen captures normally used to represent GUI parts (see the image element description), this element specifically supports constructions for which text is the primary content.

This element is part of the DITA programming domain, a special set of DITA elements designed to document programming tasks, concepts and reference information.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

body, section, example, desc, p, note, lq, li, itemgroup, dd, fig, stentry, draft-comment, fn, linkinfo, entry, conbody, prereq, context, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, propdesch, pd

Inheritance

topic / pre , ui-d / screen

Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass, xml:space	Common attributes described in Other common DITA attributes			

This example demonstrates using the <screen> element to represent a DOS edit session, where this code:

produces this output:

Type "edit" after the command line prompt and press Enter. The following editing interface will be displayed.

Utilities elements

The utilities domain elements represent common features of a language that may not

necessarily be semantic, such as image maps.

imagemap

The imagemap element supports the basic functionality of the HTML "client-side" image map markup. Imagemap allows you to designate a linkable area or region over an image, allowing a link in that region to display another topic.

An HTML client-side image map binds an image to the navigation structure (the "map") by means of an ID association from the map to the image. In contrast, the DITA version of imagemap markup simply includes the target image as the first required element in the markup, followed by a sequence of area elements that represent the links associated with the contained image.

An imagemap structure can be output either to a standard HTML image map or to alternative forms of navigation (such as table-based image maps). When output as PDF, the minimal form would be to represent at least the image; advanced PDF output processors should be able to provide equivalent region-oriented hyperlinks.

The xref content contains the intended alternative text or hover text for the map area.

Contains

((image) then (area) (one or more))

Contained by

body , section , example , p , note , lq , li , itemgroup , dd , stentry , draft-comment , fn , entry , conbody , prereq , context , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , pd

Inheritance

topic / fig , ut-d / imagemap

Attributes

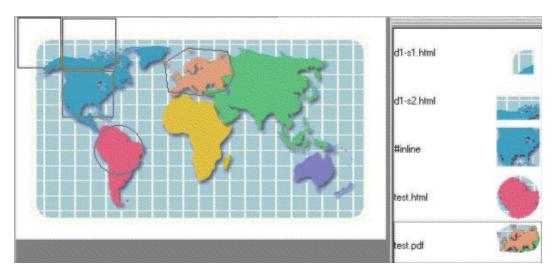
Name	Description	Data Type	Default Value	Required?
%display-atts; (scale, frame, expanse)	A set of related attributes, described at %display-atts;	parameter entity	PE not applicable	Not applicable
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes		-	

Example

A simple imagemap looks like this (note that the rendering will depend on how this

markup is supported for particular output formats):

The areas defined correspond to this graphic image; with the areas visible:



The values for use in the shape and coords elements must follow the guidelines defined for image maps in HTML 4.1, Client-side image maps: the MAP and AREA elements

area

The area element supports the basic functionality of the HTML image map markup.

Contains

((shape) then (coords) then (xref))

Contained by

imagemap

Inheritance

topic / figgroup, ut-d / area

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;,	A set of related attributes, described at	parameter	PE not	Not

%id-atts;, translate, xml:lang)	%univ-atts;	entity	applicable	applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<area>
  <shape>rect</shape>
  <coords>54,1,117,60</coords>
  <xref href="d1-s2.dita"></xref>
  </area>
```

coords

The coords element specifies the coordinates of the linkable region in an imagemap area.

The element defines the starting point and size of that area. It uses the following data for the appropriate shapes:

Shape

Data format

rect

left-x, top-y, right-x, bottom-y

circle

center-x, center-y, radius

poly

x1, y1, x2, y2, ..., xN, yN. The first x and y coordinate pair and the last should be the same to close the polygon.

Pixels are recommended; they appear to work with all browsers.

Note: The behavior of image maps will depend on the browser on which they are rendered.

This element contains text data representing HTML coordinate data for image maps. The syntax of the coordinate data depends on the shape described by the coordinates.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

area

Inheritance

topic / ph , ut-d / coords

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate,	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable

DITA Language Reference

xml:lang)				
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<area>
  <shape>rect</shape>
  <coords>54,1,117,60</coords>
  <xref href="d1-s2.dita"></xref>
</area>
```

shape

The shape element defines the shape of a linkable area in an imagemap.

The shape element supports these values:

rect

Define a rectangular region. If you leave the shape element blank, this is assumed. **circle**

Define a circular region.

poly

Define a polygonal region.

default

Indicates the entire diagram.

Contains

(text data)

Contained by

area

Inheritance

topic / keyword, ut-d / shape

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to associate the <keyword> with another topic that provides more details for that particular keyword.</keyword>	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<area>
     <shape>rect</shape>
     <coords>54,1,117,60</coords>
     <xref href="d1-s2.dita"></xref>
</area>
```

Miscellaneous elements

Most DITA elements represent discourse, or information that is placed exactly as entered. However, there are also types of information that are usually authored in context with a thought or issue, but upon output, the content might be relocated, suppressed, or used only for purposes such as inline annotations for drafts. These elements include footnotes, index entries, draft comments, and special cleanup containers that can hold migrated data that still needs a writer's intervention to get into the right place.

draft-comment

The <draft-comment> element allows simple review and discussion of topic contents within the marked-up content. Use the <draft-comment> element to ask a question or make a comment that you would like others to review. To indicate the source of the draft comment or the status of the comment, use the author, time or disposition attributes.

Processing systems should provide a run-time flag or parameter to cause the content of this element to be specially displayed for draft output only. By default, it is stripped out to prevent publishing internal comments by mistake.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable) (any number)

Contained by

section , example , p , note , lq , sli , li , itemgroup , dd , pre , lines , ph , stentry , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , screen , codeblock , pd

Inheritance

topic / draft-comment

Name	Description	Data Type	Default Value	Required?
author	Designates the originator of the draft comment.	CDATA	#IMPLIED	No
time	Describes when the draft comment was created.	CDATA	#IMPLIED	No
disposition	Status of the draft comment. Values can be issue, open, accepted, rejected, deferred, duplicate, reopened, unassigned, or completed.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable

class, outputclass	Common attributes described in Other	
	common DITA attributes	

<draft-comment author="EBP">Where's the usage information for this
section?</draft-comment>

fn

Use footnote (<fn>) to annotate text with notes that are not appropriate for inclusion in line or to indicate the source for facts or other material used in the text.

Footnote content is always skipped at the place where it was entered, and reproduced elsewhere, according to these rules:

- A footnote with no given id attribute is a single-use footnote. Upon output, it generates a number as a superscript "callout" that is linked to the placement of the footnote, usually at the bottom of the immediate printed page or at the end of the Web article. Subsequent footnotes in the same topic will have the next number in sequence for their callouts. If you enter a particular character in the callout attribute for the footnote, that character will be used as the superscript "callout" that is linked to the placement of the footnote.
- A footnote entered with an *id* attribute is a **use-by-reference** footnote. Upon output, it does not appear anywhere unless it has been referenced using an <xref> with the *type* attribute set to "fn" . The same callout behaviors will apply.
- Ordinarily, a footnote in one topic can't be referenced in another topic. The previous behaviors are local to each topic. But by using the <conref> mechanism, you can instance another topic's footnote into the local topic where it will then follow those behaviors:
 - If you use <fn conref="thatid"></fn> all by itself, the result will be the same as the single-use footnote entered literally in the same location.
 - If you use <fn conref="thatid" id="thisid"></fn>, then <xref href="thisid" type="fn"/>, the result will be the same as the use-by-reference model described before.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object) (any number)

Contained by

section, example, p, note, lq, sli, li, itemgroup, dd, figgroup, pre, lines, ph, stentry, entry, prereq, context, cmd, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, proptype, propvalue, screen, codeblock, pd

Inheritance

topic / fn

Name	Description	Data Type	Default Value	Required?
callout	Specifies what character is used for the	CDATA	#IMPLIED	No

	footnote link, for example a number or an alpha character. Numbers are the default. You could also specify a graphic for the footnote callout during output processing.			
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

This markup:

```
The memory storage capacity of the computer is 2 GB<fn callout="#">A GB (gigabyte) is equal to 1 million bytes</fn> with error correcting support.
```

produces this output:

```
The memory storage capacity of the computer is 2 GB #A GB (gigabyte) is equal to 1 million bytes with error correcting support.
```

Note: Footnote support may vary between different output types, depending on conventions and capabilities. For example, PDF output may lack support for the *callout* attribute, or footnotes may be collected as endnotes for certain types of Web publications.

indexterm

An <indexterm> is an index entry. You can nest entries to create multi-level indexes. The content is not output as part of topic content, only as part of the index.

When DITA topics are output to XHTML, any indexterm elements in the <keywords> element are placed in the Web page metadata, in addition to becoming part of the generated index.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term or indexterm) (any number)

Contained by

section , example , p , note , lq , sli , li , itemgroup , dd , pre , lines , ph , stentry , entry , keywords , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , screen , codeblock , pd

Inheritance

topic / indexterm

Name	Description	Data Type	Default Value	Required?
------	-------------	-----------	------------------	-----------

keyref	Currently not implemented in DITA processors. Provides a key that a process can use to identify a higher-level index term that the current index term should be added under.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

<purpose>An indexterm is an index entry. You can nest entries to
create multi-level indexes.<indexterm>indexterm</indexterm>
<indexterm>Valid in Many Places elements<indexterm>indexterm</indexterm>
</indexterm></purpose>

indextermref

An <indextermref> is a reference to an index entry in a lookup table used by the indexing process. If you want to create index markers pointing to referenced items, but only want page numbers instead of separate index entries to be generated, use the index term reference <indextermref> element. This adds the page number of the reference to the index without creating a separate index entry.

Note: Not currently supported in DITA processing. Since the equivalent processing can be provided by simply duplicating the target indexterm (or by creating an indexterm element with a conref attribute pointing to the target), this element might be deprecated in the future.

Contains

no content

Contained by

section, example, p, note, lq, sli, li, itemgroup, dd, pre, lines, ph, stentry, entry, prereq, context, cmd, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, proptype, propvalue, screen, codeblock, pd

Inheritance

topic / indextermref

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to identify the indexterm which the current location should be added to.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable

DITA Language Reference

%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

Use <indextermref keyref="yellow"/> lemon zest to add a tangy citrus flavor to the cake icing.

tm

The trademark (<tm>) element in DITA is used to markup and identify a term or phrase that is trademarked. Trademarks include registered trademarks, service marks, slogans and logos.

The business rules for indicating and displaying trademarks may differ from company to company and may be enforced by authoring policy and by specific processing.

Contains

(text data or tm) (any number)

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , pre , lines , keyword , term , ph , tm , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , b , u , i , tt , sup , sub , pt , pd , fragref , synnote

Inheritance

topic / tm

Attributes

Name	Description	Data Type	Default Value	Required?
trademark	The trademarked term	CDATA	#IMPLIED	No
tmowner	The trademark owner, for example "OASIS"	CDATA	#IMPLIED	No
tmtype	The trademark type: trademark, registered trademark, or service mark	CDATA	#IMPLIED	No
tmclass	Classification of the trademark.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

The advantages of using <tm trademark="DB2 Universal Database" tmtype="tm"> <tm trademark="DB2" tmtype="reg" tmclass="ibm">DB2</tm> Universal Database</tm> are

well known.

Prolog elements

The prolog elements represent the <metadata> associated with a document.

The primary types of information that you can store in the prolog include:

- author
- copyright information
- · critical tracking dates
- · permissions for use/management of the content
- extensive metadata about the content of the document
- a resourceid that allows a topic to be associated with external resources such as linking to programming components as contextual help

Most of the metadata in a topic prolog can also be authored in a DITA map, in the map's <topicmeta> element.

audience

The <audience> metadata element indicates, through the value of its type attribute, the intended audience for a topic. Since a topic can have multiple audiences, you can include multiple audience elements. For each audience you specify, you can identify the high-level task (*job*) they are trying to accomplish and the level of experience (*experiencelevel*) expected.

Contains

no content

Contained by

metadata

Inheritance

topic / audience

Name	Description	Data Type	Default Value	Required?
type	Indicates the kind of person for whom the content of the topic is intended. Allowable values are: user A user of the product purchaser A product purchaser administrator A product administrator programmer A programmer executive An executive services Someone who provides services	(user purchaser administrator programmer executive services other)	#IMPLIED	No

	and a total to the constant			
	related to the product			
	Other Use the value specified by the othertype attribute			
othertype	Indicates an alternate audience type, when the type is not available in the type attribute value list. This value is used as the user-provided audience when the type attribute value is set to "other."	CDATA	#IMPLIED	No
job	Indicates the high-level task the audience for the topic is trying to accomplish. Different audiences may read the same topic in terms of different high-level tasks; for example, an administrator may read the topic while administering, while a programmer may read the same topic while customizing. Allowable values are: installing, customizing, administering, programming, using, maintaining, troubleshooting, evaluating, planning, migrating, other.	installing customizing administering programming using maintaining troubleshootir evaluating planning migrating other		No
otherjob	If the job attribute value is "other" the value of this attribute is used to identify a kind of job other than the default ones provided by the job attribute.	CDATA	#IMPLIED	No
experiencelevel	Indicates the level of experience the audience is assumed to possess. Different audiences may have different experience levels with respect to the same topic; for example, a topic may require general knowledge from a programmer, but expert knowledge from a user. Allowable values are: novice A first time user. general The most common user. expert An experienced user.	(novice general expert)	#IMPLIED	No
name	Used to associate the audience element with values used in the audience attribute	CDATA	#REQUIRED	Yes
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

For a command reference topic for experienced programmers, the following might be an appropriate indication of that audience:

<audience type="programmer" job="programming" experiencelevel="expert"/>

author

The <author> metadata element contains the name of the topic's author.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prolog

Inheritance

topic / author

Attributes

Name	Description	Data Type	Default Value	Required?
href	A hyperlink representing a resource that defines the person or company named in the parent element. For example, you could use this attribute to cite the URL for the named entity's "home page." The href attribute identifies the destination of the resource using conventional URL syntax.	CDATA	#IMPLIED	No
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
type	Indicates the primary author of the content. Allowable values are: creator	(author contributor)	#IMPLIED	No
	The primary or original author of the content.			
	contributor			
	An additional author who is not primary.			
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<author type="creator">Jane Roe</author>
<author type="contributor">John Doe</author>
```

brand

The
 brand> element indicates the manufacturer or brand associated with the product described by the parent prodinfo> element.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / brand

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

category

The <category> element can represent any category by which a topic might be classified for retrieval or navigation; for example, the categories could be used to group topics in a generated navigation bar. Topics can belong to multiple categories.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

metadata

Inheritance

topic / category

Name	Description	Data Type	Default Value	Required?
%select-atts; (platform,	A set of related attributes, described at	parameter	PE not	Not

DITA Language Reference

product, audience, otherprops, importance, rev, status)	%select-atts;	entity	applicable	applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<metadata>
     <category>Things that are blue</category>
     </metadata>
```

component

The <component> element describes the component of the product that this topic is concerned with. For example, a product might be made up of many components, each of which is installable separately. Components might also be shared by several products so that the same component is available for installation with many products. This identification can be used to check cross-component dependencies when some components are installed, but not others. It could also be used to make sure that topics are hidden, removed, or flagged in some way when the component they describe isn't installed. Such process-control logic is not currently supported in DITA processing.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / component

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

copyrholder

The copyright holder (<copyrholder>) element names the entity that holds legal rights to the material contained in the topic.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

copyright

Inheritance

topic / copyrholder

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<copyright>
<copyryear year=2001></copyryear>
<copyrholder>IBM</copyrholder>
</copyright>
```

copyright

The <copyright> element is used for a single copyright entry. It includes the copyright years and the copyright holder. Multiple <copyright> statements are allowed.

Contains

((copyryear) (one or more) then copyrholder)

Contained by

prolog

Inheritance

topic / copyright

Name	Description	Data Type	Default Value	Required?
type	Indicates the legal status of the copyright holder. Allowable values are: primary	(primary secondary)	#IMPLIED	No
	The copyright holder with first claim on the copyright			

	secondary An additional copyright holder who is not primary			
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

```
<prolog>
<copyright>
<copyryear year="2001-04-12"></copyryear>
<copyrholder>IBM</copyrholder>
</copyright>
<copyright type=secondary>
<copyryear year="2002-03-03></copyryear>
<copyrholder>Schweetones Publishing, Inc.</copyrholder>
</copyright>
</prolog>
```

copyryear

The <copyryear> element contains the copyright year as specified by the *year* attribute.

Contains

no content

Contained by

copyright

Inheritance

topic / copyryear

Attributes

Name	Description	Data Type	Default Value	Required?
year	The year in YYYY format.	CDATA	#IMPLIED	No
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<copyright>
<copyryear year="2001"></copyryear>
<copyrholder>IBM</copyrholder>
</copyright>
```

created

The <created> element specifies the document creation date using the *date* attribute.

Contains

no content

Contained by

critdates

Inheritance

topic / created

Attributes

Name	Description	Data Type	Default Value	Required?
date	The document creation date. Enter the date as YYYY-MM-DD where YYYY is the year, MM is the month from 01 to 12, and DD is the day from 01-31. See A Summary of the International Standard Date and Time Notation for background.	CDATA	#IMPLIED	No
golive	The publication or general availability (GA) date, entered as YYYY-MM-DD, where YYYY is the year, MM is the month from 01 to 12, and DD is the day from 01-31.	CDATA	#IMPLIED	No
expiry	The date when the information should be retired or refreshed, entered as YYYY-MM-DD, where YYYY is the year, MM is the month from 01 to 12, and DD is the day from 01-31.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<prolog>
  <critdates>
    <created date="2001-06-12"></created>
    <revised golive="2001-08-20"></revised>
    </critdates>
  </prolog>
```

critdates

The <critdates> element contains the critical dates in a document life cycle, such as the creation date and multiple revision dates.

Contains

(created then (revised) (any number))

Contained by

prolog

Inheritance

topic / critdates

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<prolog>
  <critdates>
    <created date="2001-06-12"></created>
    <revised golive="2001-08-20"></revised>
    </critdates>
</prolog></prolog>
```

featnum

The <featnum> element contains the feature number of a product in the metadata.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / featnum

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

keywords

The <keywords> element contains a list of key words (using indexterm or keyword markup) that can be used by a search engine.

When DITA topics are output to XHTML, any <keyword> or <indexterm> elements in the <keywords> element are placed in the Web page metadata. The index terms in this context are also included in any generated index.

Contains

(indexterm or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle) (any number)

Contained by

metadata

Inheritance

topic / keywords

Attributes

Name	Description	Data Type	Default Value	Required?
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

The following example is metadata from an installation task:

```
<prolog>
  <keywords>
  <keyword>installing</keyword>
  <keyword>uninstalling</keyword>
  <keyword>prerequisites</keyword>
  <keyword>helps</keyword>
  <keyword>wizards</keyword>
  </keywords>
```

metadata

The <metadata> section of the prolog contains information about a topic such as audience and product information. Metadata can be used by computational processes to select particular topics or to prepare search indexes or to customize navigation.

Contains

```
( ( audience ) (any number) then ( category ) (any number) then ( keywords ) (any number) then ( prodinfo ) (any number) then ( othermeta ) (any number) )
```

Contained by

prolog

Inheritance

topic / metadata

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

othermeta

The <othermeta> element can be used to identify properties not otherwise included in <metadata> and assign name/content values to those properties. The name attribute identifies the property and the content attribute specifies the property's value. The values in this attribute are output as HTML metadata elements, and have no defined meaning for other possible outputs such as PDF.

Contains

no content

Contained by

metadata

Inheritance

topic / othermeta

Name	Description	Data Type	Default Value	Required?
name	The name of the metadata property.	CDATA	#REQUIRED	Yes
content	The value for the property named in the name attribute.	CDATA	#REQUIRED	No
translate-content	Indicates whether the content attribute of the defined metadata property should be translated or not.	yes no	#IMPLIED	No
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at	parameter	PE not	Not

	%global-atts;	entity	applicable	applicable
class	A common attribute described in Other common DITA attributes			

<othermeta name="ThreadWidthSystem" content="metric"/>

permissions

The <permissions> empty prolog element can indicate any preferred controls for access to a topic. Topics can be filtered based on the permissions element. This capability depends on your output formatting process.

Contains

no content

Contained by

prolog

Inheritance

topic / permissions

Attributes

Name	Description	Data Type	Default Value	Required?
view	Defines the classifications of viewers allowed to view the document. Allowable values are: internal	(internal classified all entitled)	#IMPLIED	No
	For internal use only.			
	classified			
	For a certain group, only.			
	all			
	The world.			
	entitled			
	Special folks, only.			
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<permissions view="entitled"/>
```

platform

The <platform> metadata element contains a description of the operating system and/or

hardware related to the product being described by the prodinfo> element.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / platform

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

See prodinfo.

prodinfo

The contains information about the product or products that are the subject matter of the current topic.

Contains

((prodname) then (vrmlist) then (brand or series or platform or prognum or featnum or component) (any number))

Contained by

metadata

Inheritance

topic / prodinfo

Attributes

Name	Description	Data Type	Default Value	Required?
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

prodname

The rodname> metadata element contains the name of the product that is supported by the information in this topic.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / prodname

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

See prodinfo

prognum

The cprognum> metadata element identifies the program number of the associated program product. This is typically an order number or a product tracking code that could be replaced by an order number when a product completes development.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / prognum

Name	Description	Data Type	Default Value	Required?
------	-------------	-----------	------------------	-----------

%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

See prodinfo.

prolog

The <prolog> element contains information about the topic as an whole (for example, author information or subject category) that is either entered by the author or machine-maintained. Much of the metadata inside the <prolog> will not be displayed with the topic on output, but may be used by processes that generate search indexes or customize navigation.

Contains

((author) (any number) then (source) (optional) then (publisher) (optional) then (copyright) (any number) then (critdates) (optional) then (permissions) (optional) then (metadata) (any number) then (resourceid) (any number))

Contained by

topic, concept, task, reference

Inheritance

topic / prolog

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	Not for use by authors. If an editor displays class attribute values, do not edit them. The class attribute supports specialization. Its predefined values help the output transforms work correctly with ranges of related content.	CDATA	#IMPLIED	No

publisher

The <publisher> metadata element contains the name of the person, company, or organization responsible for making the content or subject of the topic available.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prolog

Inheritance

topic / publisher

Attributes

Name	Description	Data Type	Default Value	Required?
href	A hyperlink representing a resource that defines the person or company named in the parent element. For example, you could use this attribute to cite the URL for the named entity's "home page." The href attribute identifies the destination of the resource using conventional URL syntax.	CDATA	#IMPLIED	No
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

<publisher>AJ Printing Inc./publisher>

resourceid

The <resourceid> element provides an identifier for applications that require them in a particular format, when the normal id attribute of the topic can't be used. Each resourceid entry should be unique. It is one of the metadata elements that can be included within the prolog of a topic, along with document tracking and product information, etc. The element has no content, but takes an *id* attribute and an *appname* attribute.

Contains

no content

Contained by

prolog

Inheritance

topic / resourceid

	Name	Description	Data Type	Default Value	Required?
--	------	-------------	-----------	------------------	-----------

DITA Language Reference

id	The value used a specific application to identify the topic.	CDATA	#REQUIRED	No
appname	Contains the name of the application that will use the resource id to identify the topic.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	Not for use by authors. If an editor displays class attribute values, do not edit them. The class attribute supports specialization. Its predefined values help the output transforms work correctly with ranges of related content.	CDATA	#IMPLIED	No

Example

<resourceid id="sqlid00375" appname="dbaccess"/>

revised

The <revised> element in the prolog is used to maintain tracking dates that are important in a topic development cycle, such as the last modification date, the original availability date, and the expiration date.

Contains

no content

Contained by

critdates

Inheritance topic / revised

Name	Description	Data Type	Default Value	Required?
modified	The last modification date, entered as YYYY-MM-DD, where YYYY is the year, MM is the month from 01 to 12, and DD is the day from 01-31.	CDATA	#IMPLIED	No
golive	The publication or general availability (GA) date, entered as YYYY-MM-DD, where YYYY is the year, MM is the month from 01 to 12, and DD is the day from 01-31.	CDATA	#IMPLIED	No
expiry	The date when the information should be retired or refreshed, entered as YYYY-MM-DD, where YYYY is the year, MM is the month from 01 to 12, and DD is the day from 01-31.	CDATA	#IMPLIED	No
%select-atts; (platform, product, audience, otherprops, importance,	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable

rev, status)				
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

series

The <series> metadata element contains information about the product series that the topic supports.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prodinfo

Inheritance

topic / series

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

source

The <source> element contains a reference to a resource from which the present topic is derived, either completely or in part. The element can contain a description of the resource; the *href* reference can be a string or a URL that points to it.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

prolog

Inheritance

topic / source

Attributes

Name	Description	Data Type	Default Value	Required?
href	A pointer to the external resource from which the present resource is derived. The href attribute identifies the destination of the resource using conventional URL syntax.	CDATA	#IMPLIED	No
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<source href="http://www.ibm.com">Somewhere, someplace</source>
```

vrm

The vrm empty element contains information about a single product's version, modification, and release, to which the current topic applies.

Contains

no content

Contained by

vrmlist

Inheritance

topic / vrm

Name	Description	Data Type	Default Value	Required?
version	Indicates the released version number of the product(s) that the document describes.	CDATA	#IMPLIED	No
release	Contains the product release identifier.	CDATA	#IMPLIED	No

DITA Language Reference

modification	Indicates when the product described in this topic was last modified.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

See vrmlist.

vrmlist

The <vrmlist> element contains a set of <vrm> elements for logging the version, release, and modification information for multiple products or versions of products to which the topic applies.

Contains

(vrm) (one or more)

Contained by

prodinfo

Inheritance

topic / vrmlist

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

The recent versions of a mythical product might be logged thus using the vrmlist markup:

Related links elements

The related-links section of DITA topics is a special structure that supports the navigational rules from a topic to its related neighbor topics.

Links are different from cross-references in that cross-references occur only within the body of a topic and can target any element in this or other topics; links only represent topic-to-topic connections, or connections to non-DITA-topic resources.

Related links can also be managed indirectly using DITA maps, which provide a more efficient way to manage links as an aspect of the collection of topics rather than as embedded pointers in each topic.

link

The kelement defines a relationship to another topic. Links represent the types and roles of topics in a web of information, and therefore represent navigational links within that web. Links are typically sorted on output based on their attributes. The optional container elements for link (kelinkgroup> and kelinklist>) allow authors to define groups with common attributes, or to preserve the authored sequence of links on output.

Contains

((linktext) (optional) then (desc) (optional))

Contained by

related-links, linklist, linkpool

Inheritance

topic / link

Name	Description	Data Type	Default Value	Required?
href	A hyperlink to an external Web page (URL) or other non-DITA resource, or to another DITA topic in the same file or in another file. The format attribute identifies the format of the target. Non-DITA targets use standard URL syntax. DITA topics are targetted as follows: Target elsewhere in the same file: href="#topicid" First topic in different file: href="filename.dita" Specific topic in different file: href="filename.dita#topicid" If the URL contains an ampersand character, the ampersand symbol (&) should be used to indicate that character	CDATA	#IMPLIED	No
keyref	Currently not implemented in DITA processors. Provides a key that a process	NMTOKEN	#IMPLIED	No

	T		1	1
	can use to look up associated information.			
%rel-atts; (type, role, otherrole)	A set of related attributes, described at %rel-atts;	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita".	CDATA	#IMPLIED	No
	Possible values include:			
	dita			
	The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic."			
	html			
	The format of the linked-to resource is HTML or XHTML.			
	pdf			
	The format of the linked-to resource is PDF (opens a new window).			
	ditamap			
	The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy			
	(no value) Defaults to "dita"			
	For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)			
scope	The scope attribute identifies the closeness of the relationship between the current document and the target resource. • Set scope to local when the resource is part of the current set of content, and should be accessed and copied to the output directory. • Set scope to peer when the resource is part of the current set of content but is not accessible at build time. • Set scope to external when the resource is not part of the current	(local peer external)	#IMPLIED	No

	information set and should open in a new browser window. The default is local.			
query	Lists query criteria, or uses metadata as query criteria. The query pulls in matching topics under the current element if the current element has a title or href; otherwise references to the matching topics replace the element at the current location.	CDATA	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<related-links>
<liinkgroup type="concept">
<liink href="czover.htm#sqljsupp"/>
<liink href="czesqlj.htm#sqljemb/>
</linkgroup>
<related-links>
```

linkinfo

The linkinfo> element allows you to place a descriptive paragraph following a list of links in a linklist element.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or image) (any number)

Contained by

linklist

Inheritance topic / linkinfo

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

```
<linklist collection-type="sequence">
    <title>Repairing widgets</title>
    <link href="debug.dita" type="task"></link>
    <link href="repair.dita" type="task"></link>
```

```
<link href="test.dita" type="task"></link>
  <linkinfo>To repair a reciprocating widget,
you must follow the instructions very carefully. Note
the sequence to follow. Do it.</linkinfo>
</linklist>
```

linklist

The klist> element defines an author-arranged group of links. Within klist>, the organization of links on final output is in the same order as originally authored in the DITA topic.

There are two ways to organize related information links: add them all in no particular order, using the linkpool> or <related-links> elements, and let the output formatting processor sort them; or pre-group them using one or more linklist> elements. When you pre-group them using linklist>, then the order of the links as you created them is preserved during the output formatting process.

Attributes set on linklist> are inherited by its descendants. For example, if you've got a

Contains

((title) (optional) then (desc) (optional) then (linklist or link) (any number) then (linkinfo) (optional))

Contained by

related-links, linklist

Inheritance

topic / linklist

Name	Description	Data Type	Default Value	Required?
collection-type	Collection types describe how links relate to each other. A family represents a tight grouping in which each of the referenced topics not only relates to the current topic but also relate to each other.	(unordered sequence choice family)	"unordered"	No
duplicates	Specifies whether or not duplicate links will be filtered out of a linklist. Allowable values are: "yes" (allow duplicate links), or "no" (filter out duplicate links). In general, duplicate links in linklists are preserved Note that links are regarded as duplicates only if their content plus all attributes match. Currently not supported in DITA processing.	#IMPLIED	The attribute value is currently ignored, but should default to yes for links in linklists and no for all other links.	No
mapkeyref	Identifies the map, if any, from which the contained links are derived. This value is automatically generated by the same process that creates the links from the	CDATA	#IMPLIED	No

%rel-atts; (type, role, otherrole) %select-atts; (platform, product, audience, otherprops, importance, rev, status)	map, as a way to identify which map the links came from. If the <linklist> or <linkpool> is manually created by the author, there is no need to use this attribute. A set of related attributes, described at %rel-atts; A set of related attributes, described at %select-atts;</linkpool></linklist>	parameter entity parameter entity	PE not applicable PE not applicable	Not applicable Not applicable
spectitle	The specialized title attribute allows architects of specialized types to define a fixed or default title for a specialized element. Not intended for direct use by authors.	CDATA	#IMPLIED	No
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita". Possible values include: dita The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic." html The format of the linked-to resource is HTML or XHTML. pdf The format of the linked-to resource is PDF (opens a new window). ditamap The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy (no value) Defaults to "dita" For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)	CDATA	#IMPLIED	No
scope	The scope attribute identifies the closeness of the relationship between the current document and the target resource.	(local peer external)	#IMPLIED	No

	Set scope to local when the resource is part of the current set of content, and should be accessed and copied to the output directory. Set scope to peer when the resource is part of the current set of content but is not accessible at build time. Set scope to external when the resource is not part of the current information set and should open in a new browser window. The default is local.			
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

linkpool

The clinkpool> element defines a group of links that have common characteristics, such as type or audience or source. When links are not in a <linklist> (that is, they are in <related-links> or <linkpool> elements), the organization of links on final output is determined by the output process, not by the order that the links actually occur in the DITA topic.

There are two ways to organize related information links: add them all in no particular order, using the linkpool> or <related-links> elements, and let the output formatting processor sort them; or pre-group them using one or more linklist> elements. When you pre-group them using linklist>, then the order of the links as you created them is preserved during the output formatting process.

Attributes set on <inherited</pre> by its descendants. For example, if you've got a linkpool> that contains all external links, you can set scope="external" on that outer on that outer on that

Contains

(linkpool or link) (any number)

Contained by

related-links, linkpool

Inheritance

topic / linkpool

Name	Description	Data Type	Default Value	Required?
collection-type	Collection types describe how links relate to each other. A family represents a tight grouping in which each of the referenced topics not only relates to the current topic but also relate to each other.	(unordered sequence choice family)	"unordered"	No

duplicates	Specifies whether or not duplicate links will be filtered out of a linklist. Allowable values are: "yes" (allow duplicate links), or "no" (filter out duplicate links). In general, duplicate links in linklists are preserved Note that links are regarded as duplicates only if their content plus all attributes match. Currently not supported in DITA processing.	#IMPLIED	The attribute value is currently ignored, but should default to yes for links in linklists and no for all other links.	No
mapkeyref	Identifies the map, if any, from which the contained links are derived. This value is automatically generated by the same process that creates the links from the map, as a way to identify which map the links came from. If the linklist> or linkpool> is manually created by the author, there is no need to use this attribute.	CDATA	#IMPLIED	No
%rel-atts; (type, role, otherrole)	A set of related attributes, described at %rel-atts;	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita". Possible values include: dita The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic." html The format of the linked-to resource is HTML or XHTML. pdf The format of the linked-to resource is PDF (opens a new window). ditamap The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy (no value)	CDATA	#IMPLIED	No

	Defaults to "dita" For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)			
scope	The scope attribute identifies the closeness of the relationship between the current document and the target resource. • Set scope to local when the resource is part of the current set of content, and should be accessed and copied to the output directory. • Set scope to peer when the resource is part of the current set of content but is not accessible at build time. • Set scope to external when the resource is not part of the current information set and should open in a new browser window. The default is local.	(local peer external)	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

```
<related-links>
<liinkpool type="task">
<liink href="generalfaq.html#installing" role="parent"/>
<liink href="register.html#newuser" role="sibling"/>
</linkpool>
</related-links>
```

linktext

The clinktext> element provides the literal label or line of text for a link. In most cases, the text of a link can be resolved during processing by cross reference with the target resource. Use the clinktext> element only when the target cannot be reached, such as when it is a peer or external link, or the target is local but not in DITA format.

Contains

(text data or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or term) (any number)

Contained by

link

Contained by

topicmeta

Inheritance

topic / linktext

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

```
<link href="tzover.htm#accsqlj">
  <linktext>Accessing relational data with SQLJ</linktext>
</link>
```

Specialization elements

Several DITA elements exist either for architectural reasons or for support of specialized markup yet to be designed. Although there is little need to use these elements unless you are directed to, some of them, such as <boolean> and <state>, can be used if your content makes use of these semantic distinctions. A discussion of signals on a gate of an integrated logic circuit, for example, might use the state element to represent either on or off conditions of that gate.

boolean

The <boolean> element is used to express one of two opposite values, such as yes or no, on or off, true or false, high or low, and so forth. The element itself is empty; the value of the element is stored in its *state* attribute, and the semantic associated with the value is typically in a specialized name derived from this element. If you need more than two values (for example, "yes," "no" and "don't care") use the <state> element instead. This element is primarily for specialization, where it can be used to require a logical true or false designation in a particular part of the document.

OASIS TC Note: This element is deprecated. It is functionally equivalent to <state value="yes|no"/>, which is recommended as its replacement in all cases.

Contains

no content

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / boolean

Attributes

Name	Description	Data Type	Default Value	Required?
state	The state of the boolean element. Allowable values are: yes no	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

She said "<boolean state="yes"/>" when I asked her to marry me!

itemgroup

The <itemgroup> element is reserved for use in specializations of DITA. As a container element, it can be used to sub-divide or organize elements that occur inside a list item, definition, or parameter definition.

Contains

(text data or ph or codeph or synph or filepath or msgph or userinput or systemoutput or b or u or i or tt or sup or sub or uicontrol or menucascade or term or xref or cite or q or boolean or state or keyword or option or parmname or apiname or cmdname or msgnum or varname or wintitle or tm or p or lq or note or dl or parml or ul or ol or sl or pre or codeblock or msgblock or screen or lines or fig or syntaxdiagram or imagemap or image or object or table or simpletable or draft-comment or required-cleanup or fn or indextermref or indexterm) (any number)

Contained by

li, dd, choice, pd

Inheritance

topic / itemgroup

Attributes

Name	Description	Data Type	Default Value	Required?
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
Second point of a list.
  <itemgroup>related discourse</itemgroup>
```

no-topic-nesting

The <no-topic-nesting> element is a placeholder in the DITA architecture. It is not actually used by the default DITA document types; it is for use only when creating a validly customized document type where the information designer wants to eliminate the ability to nest topics. Not intended for use by authors, and has no associated output processing.

Contains

no content

Contained by

Inheritance

topic / no-topic-nesting

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

required-cleanup

A <required-cleanup> element is used as a placeholder for migrated elements that cannot be appropriately tagged without manual intervention. As the element name implies, the intent for authors is to clean up the contained material and eventually get rid of the <required-cleanup> element. Authors should not insert this element into documents.

Note: Because the content of <required-cleanup> is not considered to be verified data, **DITA processors are required to strip this element from output by default.** A runtime flag *may* be provided to allow a draft view of migrated content in context.

Contains

Contained by

body, section, example, p, note, lq, sli, li, itemgroup, dd, pre, lines, ph, stentry, entry, conbody, prereq, context, cmd, info, tutorialinfo, stepxmp, choice, choptionhd, chdeschd, choption, chdesc, stepresult, result, postreq, refsyn, proptypehd, propvaluehd, propdeschd, proptype, propvalue, screen, codeblock, pd

Inheritance

topic / required-cleanup

Attributes

Name	Description	Data Type	Default Value	Required?
remap	Indicates the element that the contents of the required-cleanup element were mapped from (provides an idea about what the new intent should be).	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

Presuming an original HTML document had contained some content within a <center> tag (for which there is no clear migrational equivalent in DITA), the following might be the result that is valid within an XML editor, but which requires an author to decide how to better tag or revise this original content:

```
<section>
    <title>Some section title</title>
    <required-cleanup remap="center">Some original content migrated
    from a &lt;center> tag.</required-cleanup>
</section>
```

state

The <state> element specifies a name/value pair whenever it is necessary to represent a named state that has a variable value. The element is primarily intended for use in specializations to represent specific states (like logic circuit states, chemical reaction states, airplane instrumentation states, and so forth).

Contains

no content

Contained by

title , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , pre , lines , ph , stentry , draft-comment , fn , cite , xref , linkinfo , entry , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , screen , b , u , i , tt , sup , sub , codeph , codeblock , pt , pd , fragref , synnote

Inheritance

topic / state

Attributes

Name	Description	Data Type	Default Value	Required?
name	The name of the property whose state is being described.	CDATA	#REQUIRED	Yes
value	The state of the property identified by the name attribute.	CDATA	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

```
<step><cmd>Verify the presence of an "on" or high condition at the input
gate
(ie, <state name="inflag" value="high"/>)</cmd></step>
```

term

The <term> element identifies words that may have or require extended definitions or explanations. In future development of DITA, for example, terms might provide associative linking to matching glossary entries.

Contains

(text data or tm) (any number)

Contained by

title , navtitle , searchtitle , shortdesc , section , example , desc , p , note , lq , q , sli , li , itemgroup , dthd , ddhd , dt , dd , pre , lines , ph , alt , stentry , draft-comment , fn , cite , xref , linktext , linkinfo , entry , author , source , publisher , copyrholder , category , prodname , brand , series , platform , prognum , featnum , component , indexterm , prereq , context , cmd , info , tutorialinfo , stepxmp , choice , choptionhd , chdeschd , choption , chdesc , stepresult , result , postreq , refsyn , proptypehd , propvaluehd , propdeschd , proptype , propvalue , propdesc , uicontrol , screen , b , u , i , tt , sup , sub , codeph , codeblock , var , oper , delim , sep , pt , pd , fragref , synnote , repsep , msgph , msgblock , filepath , userinput , systemoutput , coords

Inheritance

topic / term

Attributes

Name	Description	Data Type	Default Value	Required?
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
%univ-atts; (%select-atts;, %id-atts;, translate, xml:lang)	A set of related attributes, described at %univ-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class, outputclass	Common attributes described in Other common DITA attributes			

Example

The <term>reference implementation</term> of DITA represents the standard,
fallback behaviors intended for DITA elements.

Commonly referenced descriptions

Several parts of a language reference are common between many locations, such as the descriptions for the selection and property attributes of DITA elements. These are described as sets to reduce unnecessary duplication of common information.

%display-atts;

Display attributes is a parameter entity declaration in the topic DTD that includes attributes whose values may be used for affecting the display of a topic or its selection by search tools.

In DITA tables, in place of the expanse attribute used by other DITA elements, the pgwide attribute is used instead, to conform with the OASIS Exchange Table Model. This attribute has a similar semantic (1=page width; 0=resize to galley or column).

Name	Description	Data Type	Default Value	Required?
scale	Specifies a percentage, selected from an enumerated list, that is used to resize fonts in relation to the normal text size. DITA processing does not support this attribute for XHTML output. The scale attribute provides an acknowledged style-based property directly on DITA elements. It will be deprecated in favor of external style specifications. For the table and fig elements, the intent of the property is to allow authors to adjust font sizes on the content of the containing element, primarily for print accomodation. An image in these contexts is to be scaled only by its own direct scale property. If not specifically scaled, such an image is unchanged by the scale property of its parent table or fig.	(50 60 70 80 90 100 110 120 140 160 180 200)	#IMPLIED	No
frame	Specifies which portion of a border should surround the element. Allowable values are: top Draw a line before the element bottom Draw a line after the element topbot Draw a line both before and after the element all	(top bottom topbot all sides none)	#IMPLIED	No

	Draw a box around the element sides			
	Draw a line at each side of the element			
	none			
	Don't draw any lines around this element			
	DITA processing for XHTML output supports only top, bottom, and topbot rules.			
expanse	Determines the horizontal placement of the element.	(page #IMPLIE column	#IMPLIED	No
	For PDF, allowable values are: "page" places the element on the left page margin; "column" aligns the element with the current column margin; "textline" aligns the element with the left margin of the current text line and takes indention into account.	textline)		
	For XHTML, allowable values are textline only. The table surrounds the table data. Column and page set the table width to 100%.			
	For DITA tables, this attribute is replaced instead by pgwide="0 or 1".			

The %display-atts; parameter entity is used within the DITA dtds as a common definition for attributes that affect presentation of certain elements. Not all of these capabilities have been provided yet for DITA topic processing. A typical example might be:

```
<codeblock scale="90" frame="topbot" expanse="page">
/* a long sample program */
Do forever
   Say "Hello, World"
End
</codeblock>
```

%global-atts;

Debugging attributes, normally hidden from authoring view.

These attributes are normally hidden from authors and exposed only to processing tools or editor macros. Values used in these attributes may be implementation-dependent.

Name	Description	Data Type	Default Value	Required?
xtrf	xml-trace-filename, the original filename	CDATA	#IMPLIED	Not

				applicable
xtrc	xml-trace-counter, an element counter for repositioning editors at a known edit location	CDATA	#IMPLIED	No

%id-atts;

ID attributes (%id-atts;) is a parameter entity declaration in the topic DTD that includes attributes that enable the naming and referencing of elements in a DITA topic: *id* and *conref*.

Attributes

Name	Description	Data Type	Default Value	Required?
id	An anchor point. This ID is the target for references by href and conref attributes, and for external applications that refer to DITA content.	ID	#IMPLIED	No
conref	This attribute is used to reference an ID on content that can be reused. For example, you could create a <note> in a topic and then reference its ID (using conref) from a <note> in another topic. During output processing, a lookup process will pull the contents of the first note into the note that has the conref attribute. The conref value follows the same conventions as HTML for what HTML calls a "fragment identifier"—a required "#" separator separates an optional filename from the fully qualified id (in the form topicid/elementid). To refer to target content in a different file, put the full URL of that topic before the # character.</note></note>	CDATA	#IMPLIED	No
	<pre>Same file: conref="#topicid/elementid" In different file: conref="fname.xml#topicid/elementid"</pre>			

Example

The %id-atts; parameter entity is used within the DITA dtds as a common definition for attributes available to most elements that enable you to name or reference (link to or fetch) the content of particular elements. Some typical examples include:

```
The war cry of Kudzu University, <q id="warcry">To the
victor
go the spoils!</q>, is often heard on campus during freshman
orientation.
One often hears the cry, <q conref="#topicid/warcry"/>,
when
```

%rel-atts;

Relational attributes (<%rel-atts;>) is a parameter entity declaration in the topic DTD that includes attributes whose values may be used for representing navigational relationships. These attributes occur only on elements that represent relationships between topics.

Name	Description	Data Type	Default Value	Required?
type	Describes the target of a cross-reference and may generate cross-reference text based on that description. Only the <xref> element can link to content below the topic level: other types of linking can target whole topics, but not parts of topics. Typically <xref> should also be limited to topic-level targets, unless the output is primarily print-oriented. Web-based referencing works best at the level of whole topics, rather than anchor locations within topics.</xref></xref>	CDATA	#IMPLIED (Processed as if the target were of type "topic.")	No
	When targetting DITA content, the type should match one of the values in the target's class attribute. For example, if type="topic", the link could be to a generic topic, or any specialization of topic, including concept, task, and reference.			
	Some possible values include:			
	fig Indicates a link to a figure.			
	table			
	Indicates a link to a table.			
	Indicates a link to an ordered list item.			
	fn			
	Indicates a link to a footnote.			
	section			
	"section" indicates a link to a section.			
	concept, task, reference, topic			
	Cross-reference to a topic type.			
	(no value) Defaults to generic topic, or the processor may retrieve the actual type from the target if available.			

role	Other values can be used to indicate other types of topics or elements as targets. Processing is only required to support the above list, or specializations of types in that list. Supporting additional types as targets may require the creation of processing overrides. The role attribute defines the role the	(parent	"friend"	No
	target 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 structure could be used to sort and classify links at display time. Allowable values are:	child sibling friend next previous cousin ancestor descendant sample external		
	Allowable values are.	[deprecated]		
	parent	other)		
	Indicates a link to a topic that is a parent of the current topic.			
	child			
	Indicates a link to a direct child such as a directly nested or dependent topic.			
	sibling			
	lindicates a link between two children of the same parent 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.			
	previous			
	Indicates a link to the previous topic in a sequence.			
	cousin			
	Indicates a link to another topic in the same hierarchy that is not a parent, child, sibling, next, or previous.			
	ancestor			
	Indicates a link to a topic above the parent topic.			
	descendent			
	Indicates a link to a topic below a child topic.			
	sample			

	Deprecated. external Deprecateduse the scope="external" attribute to indicate external links other Indicates any other kind of relationship or role. Enter that role as the value for the otherrole attribute.			
otherrole	Indicates an alternate role. This value is used when the role attribute is set to other.	CDATA	#IMPLIED	No

The %rel-atts; parameter entity is used within the DITA dtds as a common definition for attributes available to elements that represent topic-to-topic relationships. Not all of these capabilities have been provided yet for DITA topic processing. Some typical examples include:

<link type="task" role="child" href="how2uninst.dita" scope="local"/>

%select-atts;

Attributes that support both filtering and flagging include *platform*, *product*, *audience*, and *otherprops*. Attribute *rev* only lets you flag information that matches a run-time parameter. Attribute *importance* currently provides output effects only for steps (where only the values "optional" and "required" are supported).

Name	Description	Data Type	Default Value	Required?
platform	Indicates operating system and hardware. This is a property attribute which supports conditional processing for filtering or flagging.	CDATA	#IMPLIED	No
product	Contains the name of the product to which the topic applies. This is a property attribute which supports conditional processing for filtering or flagging.	CDATA	#IMPLIED	No
audience	Indicates the intended audience for the element. This is a property attribute which supports conditional processing for filtering or flagging.	CDATA	#IMPLIED	No
otherprops	This attribute can be used for any other properties that might be needed to describe an audience, or to provide selection criteria for the element.	CDATA	#IMPLIED	No
importance	A range of values that describe an importance or priority attributed to an element. For example, in steps of a task,	obsolete deprecated optional	#IMPLIED	No

	the attribute indicates whether a step is optional or required. In other contexts or specializations, other values are possible.	default low normal high recommender required urgent		
rev	Indicates revision level of an element. It is useful for flagging outputs based on revision.	CDATA	#IMPLIED	No
status	The status of the current element.	new changed deleted unchanged	#IMPLIED	No

The %select-atts; parameter entity is used within the DITA dtds as a common definition for attributes available to most elements for you to enable the content for improved retrievability or for selection. Some typical examples include:

Note that most of the attributes allow multiple values, for example the audience attribute in the example indicates that the message is of interest to both programmers and administrators.

%univ-atts;

Universal attributes is a parameter entity declaration in the topic DTD, which defines a set of common attributes available on many DITA elements..

The univ-atts entity includes:

- the attributes in the select-atts parameter entity (platform , product , audience , otherprops , importance , rev , status)
- the attributes in the id-atts parameter entity (id , conref)
- two additional attributes: translate and xml:lang.

Name	Description	Data Type	Default Value	Required?
%select-atts;	A set of related attributes, described at select-atts: platform, product, audience, otherprops, importance, rev, status.			
%id-atts;	A set of related attributes, described at id-atts: id, conref.			
translate	Indicates whether the content of the element should be translated or not.	yes no	#IMPLIED	No
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is	NMTOKEN	#IMPLIED	No

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assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	
--	--

See examples for the select-atts and id-atts parameter entries. The translate and xml:lang attributes identify language-specific words or phrases for specific processing (or non-processing, in the case of translate="no").

The cordial response to the question is <q translate="no" xml:lang="de-de">nein.</q>

Map elements

A map describes the relationships among a set of DITA topics. The following are some examples of relationships that can be described in a map:

- Hierarchical (Parent/Child). Nested topics create a hierarchical relationship. The topic that does the nesting is the parent, and the topics that are nested are the children.
- Ordered. Child topics can be labeled as having an ordered relationship, which means they are referenced in a definite sequence.
- Family. Child topics can be labeled as having a family relationship, which means they all refer to each other.

The relationships defined in a map can be used to create a Table of Contents (TOC), aggregate topics into a PDF document, or to create links between topics in output.

map

The <map> element is used to define a map which describes the relationships among a set of resources, such as DITA topics. Maps consist of references to topics and other resources organized into hierarchies, groups, and tables. Maps provide a way to express these relationships in a single common format that can be used for different outputs.

The containing element for a map is the <map> element, which can take title and id attributes. Within the map, use the <topicref> element to add and organize references to the topics, and the <topicgroup> and <reltable> elements to provide non-hierarchical relationships. You can use the <map> element to set default attribute values for all <topicref> elements in the map.

While the title attribute on a map is optional, the title attribute is required if the map is being used to provide Eclipse help navigation files. The title attribute of the map becomes the <toc> label attribute in Eclipse output, which is used when the navigation file is set as primary (appearing at the top level of the navigation rather than consumed by other navigation files).

Contains

((topicmeta) (optional) then (navref or anchor or topicref or (topichead or topicgroup) or reltable) (any number)

Contained by

Inheritance

map / map

Name	Description	Data Type	Default Value	Required?
title	An identifying title for the map. Used in Eclipse output as the <toc> label. May be used or ignored by other processes.</toc>	CDATA	#IMPLIED	No
id	This attribute may be used for debugging purposes, for example to identify which map a link was generated from.	ID	#IMPLIED	No
anchorref	Identifies a location within another map	CDATA	#IMPLIED	No

	file where this map will be anchored (added at runtime, using Eclipse navigation integration). For example, anchorref="map1.ditamap/a1" causes this map to be pulled into the location of the anchor point a1 in the other map1.ditamap.			
%topicref-atts; (collection-type, type, scope, locktitle, format, linking, toc, print, search, chunk)	A set of related attributes. See %topicref-atts; .	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
DITAArchVersion	Designates the version of the architecture that is in use.	CDATA	"1.0" (version dependent; will increase)	Yes
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

In this example, there are six topicrefs. They are nested and have a hierarchical relationship. The file bats dita is the parent topic and the other topics are its children. The hierarchy could be used to generate a PDF, a navigation pane in an information center, a summary of the topics, or related links between the parent topic and its children.

anchor

The <anchor> element is used for runtime integration of navigation. It provides an integration point that another map can point to in order to insert its navigation into the current navigation tree. It is currently supported by Eclipse output only.

For build-time integration, you can use the conref attribute on an element inside the map (for example, a topicref) to pull in content from a matching element (for example, another topicref) in another map.

Contains

no content

Contained by

map, topicref, topichead, topicgroup

Inheritance

map / anchor

Attributes

Name	Description	Data Type	Default Value	Required?
id	The id of the anchor, to distinguish it from other anchor points in the same map.	ID	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

In this example, an anchor is defined with an ID of "a1". This ID can be referenced by the anchorref attribute on another map's map element.

```
<map title="MyComponent tasks">
<topicref navtitle="Start here" href="" toc="yes"> Start here
<navref mapref="othermap2.ditamap"/>
<navref mapref="othermap3.ditamap"/>
<anchor id="al"/>
</topicref>
</map>
```

navref

The <navref> element references a map file from within a map file. The reference is resolved at runtime for Eclipse navigation, typically to pull together the navigation for multiple components into a product navigation. This element is for runtime resolution of references, and is for navigation only. It is currently only supported by Eclipse output.

For build-time integration, you can use the conref attribute on an element inside the map (for example, a topicref) to pull in content from a matching element (for example, another topicref) in another map.

Contains

no content

Contained by

map, topicref, topichead, topicgroup

Inheritance

map / navref

Name	Description	Data Type	Default Value	Required?
mapref	Specifies the URL (local filename, at least) of the map file to reference. This element is for runtime resolution of references, and is for navigation only. It is currently only supported by Eclipse output.	CDATA	#IMPLIED	No

%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

In this example, the map titled "MyComponent tasks" references the maps "othermap2.ditamap" and "othermap3.ditamap".

```
<map title="MyComponent tasks">
<navref mapref="../com.ibm.xml.doc/othermap1.ditamap"/>
<navref mapref="../com.ibm.xml.doc/othermap2.ditamap"/>
</topicref>
</map>
```

reltable

The relationship table (<reltable>) defines relationships between topics, based on the familiar table model of rows (<relrow>), columns (<relheader>), and cells (<relcell>). The <relcell> elements can contain <topicref> elements, which are then related to other <topicref> elements in the same row (although not necessarily in the same cell). By default, the contents of a <reltable> element are not output for navigation or TOC purposes, and are used only to define relationships that can be expressed as topic-to-topic links.

Relationship tables can be used in conjunction with hierarchies and groups to manage all the related links in an information set.

Contains

((topicmeta) (optional) then (relheader) (optional) then (relrow) (one or more))

Contained by

map

Inheritance

map / reltable

Name	Description	Data Type	Default Value	Required?
title	An identifying title for this element.	CDATA	#IMPLIED	No
%topicref-atts-no-toc; (collection-type, type, locktitle, format, linking, print, search, chunk)	A related set of attributes. See %topicref-atts-no-toc; .	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

In this example, a relationship table is defined with three columns; one for "concept", one for "task", and one for "reference". Three cells are defined within one row. The first cell contains one concept topic: batsonar.xml. The second cell contains two task topics: batcaring.xml and batfeeding.xml. The third cell contains two reference topics: batguano.xml and bathistory.xml.

```
<map>
<reltable>
  <relheader>
    <relcolspec type="concept">
    <relcolspec type="task">
    <relcolspec type="reference">
    </relheader>
    <relrow>
    <relcell><topicref href="batsonar.dita"/></relcell>
    <relcell><topicref href="batcaring.dita"/><topicref href="batfeeding.dita"/></relcell>
    <relcell><topicref href="batguano.dita"/><topicref href="bathistory.dita"/><topicref href="batguano.dita"/><topicref href="bathistory.dita"/></relcell>
    </relrow>
    </reltable>
</map>
```

A table view of the tagging would look like this:

type="concept"	type="task"	type="reference"
batsonar.dita	batcaring.dita, batfeeding.dita	batguano.dita, bathistory.dita

On output, links should be added to topics that are in the same row, but not in the same cell. This allows simple maintenance of parallel relationships: for example, in this case, batcaring.dita and batfeeding.dita are two tasks that require the same supporting information (concept and reference topics) but might otherwise be unrelated. When topics in the same cell are in fact related, the cell's collection-type attribute can be set to family. If some cells or columns are intended solely as supporting information and should not link back to topics in other cells, you can set the linking attribute on the cell or column to targetonly.

In this example, the related links would be as follows:

batsonar.dita

batcaring.dita, batfeeding.dita, batguano.dita, bathistory.dita

batcaring.dita

batsonar.dita, batguano.dita, bathistory.dita

batfeeding.dita

batsonar.dita, batguano.dita, bathistory.dita

batquano.dita

batsonar.dita, batcaring.dita, batfeeding.dita

bathistory.dita

batsonar.dita, batcaring.dita, batfeeding.dita

Although the table may initially take some time to learn and manipulate, it is inherently a more efficient form to manage these links. It is also easier to see and manage patterns using the table; for example, the fact that batfeeding.dita and batcaring.dita have the same relationships to supporting information is clear from the table, but would require some comparison and counting to determine from just the definition list summary.

relrow

A <relrow> is a row in the relationship table. This creates a relationship between the cells in the row, which will end up expressed as links among the <topicref> elements in the cells.

Contains

(relcell) (any number)

Contained by

reltable

Inheritance

map / relrow

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

See reltable.

relcell

A <relcell> element is a cell in the relationship table. The <topicref> elements it contains will be related to topicrefs in other cells of the same row. By default, topicrefs in the same cell are not related to each other, unless you change the relcell's collection-type attribute to indicate that they are related.

Contains

((topicref or (topichead or topicgroup)) (any number))

Contained by

relrow

Inheritance

map / relcell

Attributes

Name	Description	Data Type	Default Value	Required?
%topicref-atts; (collection-type, type, scope, locktitle, format, linking, toc, print, search, chunk)	A set of related attributes. See %topicref-atts; .	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

See reltable.

relheader

The <relheader> element is a row of column definitions (<relcolspec> elements) in a relationship table. Each table can have only one set of column definitions.

Contains

(relcolspec) (one or more)

Contained by

reltable

Inheritance

map / relheader

Attributes

Name	Description	Data Type	Default Value	Required?
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

See reltable.

relcolspec

A column definition in the relationship table. You can use <relcolspec> column definitions to set defaults for the attributes of <topicref> elements in the column. For example, you can set type="concept" to treat all untyped <topicref> elements in the column as concepts.

Contains

(topicmeta) (optional)

Contained by

relheader

Inheritance

map / relcolspec

Name	Description	Data Type	Default Value	Required?
%topicref-atts; (collection-type, type, scope, locktitle, format, linking, toc, print, search, chunk)	A set of related attributes. See %topicref-atts; .	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance,	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable

rev, status)				
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

See reltable.

topicmeta

The <topicmeta> element defines the metadata that applies to a topic when it appears in a map, and to the other topics in the map that are contained by the same element that contains the <topicmeta> element. When creating links, it can also be used to override the title and short description of the topic. In addition, it can be used to add index entries to referenced content using the <keywords> element.

Contains

((linktext) (optional) then (searchtitle) (optional) then (shortdesc) (optional) then (author) (any number) then (source) (optional) then (publisher) (optional) then (copyright) (any number) then (critdates) (optional) then (permissions) (optional) then (audience) (any number) then (category) (any number) then (keywords) (any number) then (prodinfo) (any number) then (othermeta) (any number) then (resourceid) (any number)

Contained by

map, topicref, reltable, relcolspec, topichead, topicgroup

Inheritance

map / topicmeta

Attributes

Name	Description	Data Type	Default Value	Required?
lockmeta	Currently unsupported. Defaults to "yes".	(yes no)	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

Example

In this example, the metadata defined by the metadata element applies to the associated <topicref> (bats.xml) and all of its children. The <topicmeta> element contains an audience definition which indicates that bats.xml and its children are of interest to experienced programmers who are troubleshooting.

topicref

The <topicref> element identifies a topic (such as a concept, task, or reference) or other resource. A <topicref> can contain other<topicref> elements, allowing you to express navigation or table-of-contents hierarchies, as well as implying relationships between the containing <topicref> and its children. You can set the collection-type of a container <topicref> to determine how its children are related to each other. You can also express relationships among <topicref>s using group and table structures (using <topicgroup> and <reltable>). Relationships end up expressed as links in the output (with each participant in a relationship having links to the other participants by default).

You can fine tune the output from your map by setting different attributes on topicrefs: for example, the *linking* attribute controls how its relationships to other topicrefs are expressed as links, and the *toc* attribute controls whether the topicref shows up in TOC or navigation output.

Contains

((topicmeta) (optional) then (topicref or (topichead or topicgroup) or navref or anchor) (any number))

Contained by

map, topicref, relcell, topichead, topicgroup

Inheritance

map / topicref

Name	Description	Data Type	Default Value	Required?
navtitle	Specifies the title of the topic as it will appear in navigation or tables of contents generated from the map.	CDATA	#IMPLIED	No
id	This ID is the target for references by conref attributes, to allow build-time integration of maps.	ID	#IMPLIED	No
href	A pointer to the resource represented by the <topicref>. References to DITA content cannot be below the topic level: that is, you cannot reference individual elements inside a topic. References to content other than DITA topics should use the format attribute to identify the kind of resource being referenced.</topicref>	CDATA	#IMPLIED	No
keyref	Currently not implemented in DITA processors. Provides a key that a process can use to look up associated information.	NMTOKEN	#IMPLIED	No
query	Lists query criteria, or uses metadata as query criteria. The query pulls in matching topics under the current element if the current element has a title or href; otherwise references to the matching topics replace the element at the current location.	CDATA	#IMPLIED	No

conref	References an equivalent element in the same map or another map, which will be copied into the current element's location when the conref is resolved. The syntax uses the target's file name and element ID; it does not require the map ID for scoping since there is only ever one map per target file: Local target: conref="#elementID" In different file: conref="othermap.ditamap#element"	CDATA	#IMPLIED	No
copy-to	Use the copy-to attribute on the <topicref> element to provide a different file name for a particular instance of the topic in the map (for example, to separate out the different versions of the topic, rather than combining them on output). The links and navigation associated with that instance will point to a copy of the topic with the file name you specified. Use the linktext> and <shortdesc> in the <topicref>'s <topicmeta> to provide a unique name and short description for the new copy.</topicmeta></topicref></shortdesc></topicref>	CDATA	#IMPLIED	No
%topicref-atts; (collection-type, type, scope, locktitle, format, linking, toc, print, search, chunk)	A set of related attributes. See %topicref-atts; .	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
translate	Indicates whether the content of the element should be translated or not.	yes no	#IMPLIED	No
xml:lang	Specifies the language of the element content. When no xml:lang value is supplied, the default value of English is assumed. For example, if there is a note element with the attribute xml:lang set to the value "es-es," then the label on the note, which is normally output as "Note" is now output in Spanish as "Nota." The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).	NMTOKEN	#IMPLIED	No
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

In this example, there are six topicrefs. They are nested and have a hierarchical relationship. Bats.xml is the parent topic and the other topics are its children.

Map group elements

The mapgroup domain elements represent particular containment strategies within a set of topicrefs in a map.

topicgroup

The <topicgroup> element is for creating groups of <topicref> elements without affecting the hierarchy, as opposed to nested <topicref> elements within a <topicref>, which does imply a structural hierarchy. It is typically used outside a hierarchy to identify groups for linking without affecting the resulting toc/navigation output.

Contains

((topicmeta) (optional) then (topicref or (topichead or topicgroup) or navref or anchor) (any number)

Contained by

map, topicref, relcell, topichead, topicgroup

Inheritance

map / topicref, mapgroup-d / topicgroup

Name	Description	Data Type	Default Value	Required?
id	This ID is the target for references by conref attributes, to allow build-time integration of maps.	ID	#IMPLIED	No
conref	References an equivalent element in the same map or another map, which will be copied into the current element's location when the conref is resolved. The syntax uses the target's file name and element ID; it does not require the map ID for scoping since there is only ever one map per target file: Local target: conref="#elementID" In different file: conref="othermap.ditamap#element"	CDATA	#IMPLIED	No
%topicref-atts; (collection-type, type, scope, locktitle, format,	A set of related attributes. See %topicref-atts; .	parameter entity	PE not applicable	Not applicable

linking, toc, print, search, chunk)				
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

The following <topicgroup> adds a set of related links among the members of the family it defines using collection-type="family", but does not affect generated navigation files or tables of contents since the group is set to toc="no"

topichead

The <topichead> element provides a title-only entry in a navigation map, as an alternative to the fully-linked title provided by the <topicref> element.

Contains

((topicmeta) (optional) then (topicref or (topichead or topicgroup) or navref or anchor) (any number))

Contained by

map, topicref, relcell, topichead, topicgroup

Inheritance

map / topicref, mapgroup-d / topichead

Name	Description	Data Type	Default Value	Required?
navtitle	Specifies the title of the topic as it will appear in navigation or tables of contents generated from the map.	CDATA	#IMPLIED	No
id	This ID is the target for references by conref attributes, to allow build-time integration of maps.	ID	#IMPLIED	No
conref	References an equivalent element in the same map or another map, which will be copied into the current element's location when the conref is resolved. The syntax	CDATA	#IMPLIED	No

	uses the target's file name and element ID; it does not require the map ID for scoping since there is only ever one map per target file: Local target: conref="#elementID" In different file: conref="othermap.ditamap#element"			
%topicref-atts; (collection-type, type, scope, locktitle, format, linking, toc, print, search, chunk)	A set of related attributes. See %topicref-atts; .	parameter entity	PE not applicable	Not applicable
%select-atts; (platform, product, audience, otherprops, importance, rev, status)	A set of related attributes, described at %select-atts;	parameter entity	PE not applicable	Not applicable
%global-atts; (xtrf, xtrc)	A set of related attributes, described at %global-atts;	parameter entity	PE not applicable	Not applicable
class	A common attribute described in Other common DITA attributes			

The following markup, for HTML Help output, will produce a book icon that expands into a nested set when toggled.

%topicref-atts;

The %topicref-atts; parameter entity represents a group of attributes used in numerous map elements: map, topicref, relcolspec, relcell, topichead, and topicgroup. The set is similar to those documented in topicref-atts-no-toc but includes the *toc* attribute.

Name	Description	Data Type	Default Value	Required?
collection-type	Collection types describe how links relate to each other. A family represents a tight grouping in which each of the referenced topics not only relates to the current topic but also relate to each other.	(unordered sequence choice family)	"unordered"	No
type	Describes the target of a cross-reference and may generate cross-reference text based on that description. Only the <xref></xref>	CDATA	#IMPLIED (Processed as if the	No

	element can link to content below the topic level: other types of linking can target whole topics, but not parts of topics. Typically <xref> should also be limited to topic-level targets, unless the output is primarily print-oriented. Web-based referencing works best at the level of whole topics, rather than anchor locations within topics. When targetting DITA content, the type should match one of the values in the target's class attribute. For example, if type="topic", the link could be to a generic topic, or any specialization of topic, including concept, task, and reference.</xref>		target were of type "topic.")	
	Some possible values include:			
	Some possible values include:			
	fig Indicates a link to a figure.			
	table			
	Indicates a link to a table.			
	li			
	Indicates a link to an ordered list item.			
	fn			
	Indicates a link to a footnote.			
	section			
	"section" indicates a link to a section.			
	concept, task, reference, topic Cross-reference to a topic type.			
	(no value) Defaults to generic topic, or the processor may retrieve the actual type from the target if available.			
	Other values can be used to indicate other types of topics or elements as targets. Processing is only required to support the above list, or specializations of types in that list. Supporting additional types as targets may require the creation of processing overrides.			
scope	The scope attribute identifies the closeness of the relationship between the current document and the target resource. • Set scope to local when the resource is part of the current set of content, and should be accessed and copied to the output directory.	(local peer external)	#IMPLIED	No

	Set scope to peer when the resource is part of the current set of content but is not accessible at build time. Set scope to external when the resource is not part of the current information set and should open in a new browser window. The default is local.			
locktitle	This attribute makes sure the navtitle attribute is used if it is present; if locktitle isn't set to "yes", the navtitle attribute is ignored and text is retrieved from the target yes The navtitle in the map is used. no Default. The navtitle or title of the topic is used.	(yes no)	#IMPLIED	No
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita". Possible values include: dita The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic." html The format of the linked-to resource is HTML or XHTML. pdf The format of the linked-to resource is PDF (opens a new window). ditamap The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy (no value) Defaults to "dita" For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)	CDATA	#IMPLIED	No

linking	Defines some specific linking characteristics of a topic's current location in the map. 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	(targetonly sourceonly normal none)	#IMPLIED	No
	to other topics.			
toc	Specifies whether a topic appears in the table of contents (toc). This value is set to no.			No
print	Specifies whether the topic should be included in a portable document format (PDF) file. yes Include the topic in a PDF file. no Do not include the topic in a PDF file.	(yes no)	#IMPLIED	No
search	Currently not used. yes no	(yes no)	#IMPLIED	No
chunk	Intended to allow re-chunking of content on output: for example, combining topics from separate files into one output file, or splitting multiple topics in one file into separate files. Currently the file names and chunking of input files determines the file names and chunking of output files, during output to HTML. The chunking attribute is not currently supported.	CDATA	#IMPLIED	No

%topicref-atts-no-toc;

The %topicref-atts-no-toc; parameter entity represents the set of attributes used in the reltable map element. The set is similar to those documented in topicref-atts but for <reltable> the *toc* attribute defaults to "no". For the other elements that use the %topicref-atts; group declaration, the *toc* attribute doesn't have a default; they can inherit their *toc* value from the nearest container, otherwise it functions upon output as if set to "yes".

Name	Description	Data Type	Default Value	Required?
collection-type	Collection types describe how links relate to each other. A family represents a tight grouping in which each of the referenced topics not only relates to the current topic but also relate to each other.	(unordered sequence choice family)	"unordered"	No
type	Describes the target of a cross-reference and may generate cross-reference text based on that description. Only the <pre><pre>xref></pre> element can link to content below the topic level: other types of linking can target whole topics, but not parts of topics. Typically <pre><pre>xref></pre> should also be limited to topic-level targets, unless the output is primarily print-oriented. Web-based referencing works best at the level of whole topics, rather than anchor locations within topics.</pre></pre>	CDATA	#IMPLIED (Processed as if the target were of type "topic.")	No
	When targetting DITA content, the type should match one of the values in the target's class attribute. For example, if type="topic", the link could be to a generic topic, or any specialization of topic, including concept, task, and reference.			
	Some possible values include:			
	fig			
	Indicates a link to a figure.			
	table			
	Indicates a link to a table.			
	li Indicates a link to an ordered list item.			
	fn			
	Indicates a link to a footnote.			
	section			
	"section" indicates a link to a section.			
	concept, task, reference, topic Cross-reference to a topic type.			
	(no value)			
	Defaults to generic topic, or the processor may retrieve the actual type from the target if available.			
	Other values can be used to indicate other types of topics or elements as			

DITA Language Reference		1	1	
	targets. Processing is only required to support the above list, or specializations of types in that list. Supporting additional types as targets may require the creation of processing overrides.			
locktitle	This attribute makes sure the navtitle attribute is used if it is present; if locktitle isn't set to "yes", the navtitle attribute is ignored and text is retrieved from the target yes The navtitle in the map is used. no Default. The navtitle or title of the topic is used.	(yes no)	#IMPLIED	No
format	The format attribute identifies the format of the resource being cross referenced. The default format is "dita".	CDATA	#IMPLIED	No
	Possible values include:			
	dita			
	The destination uses DITA topic markup, or markup specialized from a DITA topic. Unless otherwise specified, the corresponding default type will be treated as "topic."			
	html			
	The format of the linked-to resource is HTML or XHTML.			
	pdf			
	The format of the linked-to resource is PDF (opens a new window).			
	ditamap			
	The linked-to resource is a DITA map. It represents a referenced hierarchy at a position within referencing hierarchy, and a referenced relationship table included outside the referencing hierarchy			
	(no value)			
	Defaults to "dita"			
	For other formats, you can use the file extension without the "." (for example, in a link to file "readme.txt", use "txt" as the value)			
linking	Defines some specific linking characteristics of a topic's current location	(targetonly sourceonly	#IMPLIED	No

	in the map. 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	normal none)		
	A topic cannot be linked to or link to other topics.			
print	Specifies whether the topic should be included in a portable document format (PDF) file. yes Include the topic in a PDF file. no Do not include the topic in a PDF file.	(yes no)	#IMPLIED	No
search	Currently not used. yes no	(yes no)	#IMPLIED	No
chunk	Intended to allow re-chunking of content on output: for example, combining topics from separate files into one output file, or splitting multiple topics in one file into separate files. Currently the file names and chunking of input files determines the file names and chunking of output files, during output to HTML. The chunking attribute is not currently supported.	CDATA	#IMPLIED	No

xml:lang values

The allowed xml:lang values are based on ISO-3166 Country Codes and RFC 3066 Language Codes (see W3C: Language tagging in HTML and XML).

xml:lang values

Value	Language	Value	Language
ar-eg	Arabic	nl-be	Belgian Dutch
fr-be	Belgian French	pt-br	Brazilian Portuguese
bg-bg	Bulgarian	ca-es	Catalan
en-ca	Canadian English	fr-ca	Canadian French
hr-hr	Croatian	CS-CZ	Czech
da-dk	Danish	nl-nl	Dutch
en-us	US English	et-ee	Estonian
fi-fi	Finnish	fr-fr	French
de-de	German	el-gr	Greek
he-il	Hebrew	hu-hu	Hungarian
is-is	Icelandic	it-it	Italian
ja-jp	Japanese	ko-lr	Korean
lv-lv	Latvian	lt-lt	Lithuanian
mk-mk	Macedonian	no-no	Norwegian
pl-pl	Polish	pt-pt	Portuguese
ro-ro	Romanian	ru-ru	Russian
zh-cn	Simplified Chinese	sr-sp	Serbian
fr-ch	Swiss French	de-ch	Swiss German
it-ch	Swiss Italian	sk-sk	Slovak
sl-si	Slovenian	es-es	Spanish
sv-se	Swedish	zh-tw	Traditional Chinese
th-th	Thai	tr-tr	Turkish
en-gb	UK English		

outputclass processing

During transformation from XML to HTML, the value of outputclass is output instead of the class name ordinarily generated for the element. This new class can then be used by a CSS stylesheet to apply alternate formatting rules to the output HTML document.

For example, if a paragraph element is normally rendered in regular font but a bold paragraph is required, you could put boldpara as a value for the outputclass attribute, and then write a CSS stylesheet that applies bold formatting to result elements that will have that class value (for example, .boldpara {font-weight: bold; display: block;}). The paragraph is then displayed as bold when you view the HTML output using your CSS in a web browser.

keyref processing

Design note:

The intent of keyref is to provide indirection to linking information as an alternative to using href for hardcoded paths directly in your content. When you use keyref, you allow different processes to form the linking relationship in different ways: for example, a reviewing process might look up internal address and phone number information for the author, while a publishing process might look up a company address and feedback email address.

This functionality is not yet supported in DITA processing.