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## Allow example element in more places #297

The `<example>` element is not allowed in several elements, which means that content cannot be tagged as examples in certain contexts. Adding `<example>` to more contexts solves the issue.

### Champion

Scott Hudson

### Tracking information

Event	Date	Links
Stage 1 proposal accepted	10JUN2019	<ul style="list-style-type: none"><li><a href="https://lists.oasis-open.org/archives/dita/201906/msg00026.html">https://lists.oasis-open.org/archives/dita/201906/msg00026.html</a></li><li><a href="https://lists.oasis-open.org/archives/dita/201907/msg00061.html">https://lists.oasis-open.org/archives/dita/201907/msg00061.html</a></li></ul>
Stage 2 proposal submitted	11SEP2019	<a href="https://lists.oasis-open.org/archives/dita/201909/msg00039.html">https://lists.oasis-open.org/archives/dita/201909/msg00039.html</a>
Stage 2 proposal discussed	08OCT2019	<ul style="list-style-type: none"><li><a href="https://lists.oasis-open.org/archives/dita/201909/msg00074.html">https://lists.oasis-open.org/archives/dita/201909/msg00074.html</a></li><li><a href="https://lists.oasis-open.org/archives/dita/201910/msg00077.html">https://lists.oasis-open.org/archives/dita/201910/msg00077.html</a></li></ul>
Stage 2 proposal approved	15OCT2019	<a href="https://lists.oasis-open.org/archives/dita/201910/msg00109.html">https://lists.oasis-open.org/archives/dita/201910/msg00109.html</a>
Stage 3 proposal submitted to reviewers	23 OCT 2019	<ul style="list-style-type: none"><li>Carsten Brennecke, SAP</li><li>Stan Doherty, Oracle</li></ul>
Stage 3 proposal (this document) submitted to TC	29 OCT 2019	

### Approved technical requirements

Allow `<example>` everywhere that `<fig>` can go in DITA 1.3, except do not allow `<example>` directly within `<example>`. Also allow `<example>` as a child of `<fig>`.

1. This feature allows `<example>` to exist where it does in DITA 1.3. Use of the element is fully backward-compatible.

**2. This feature allows `<example>` in most block elements:**

- `<abstract>`
- `<cause>`
- `<chdesc>`
- `<chdeschd>`
- `<choice>`
- `<choption>`
- `<choptionhd>`
- `<condition>`
- `<context>`
- `<dd>`
- `<div>`
- `<draft-comment>`
- `<entry>`
- `<fig>`
- `<fn>`
- `<glossScopeNote>`
- `<glossUsage>`
- `<glossdef>`
- `<info>`
- `<itemgroup>`
- `<li>`
- `<lq>`
- `<note>`
- `<p>`
- `<pd>`
- `<postreq>`
- `<prereq>`
- `<propdeschd>`
- `<proptypehd>`
- `<propvaluehd>`
- `<refsyn>`
- `<responsibleParty>`
- `<result>`
- `<section>`
- `<sectiondiv>`
- `<stentry>`
- `<stepresult>`
- `<steps-informal>`
- `<stepsection>`
- `<steptroubleshooting>`
- `<tasktroubleshooting>`
- `<tutorialinfo>`

**3. This feature does not create a new context for titled areas, since the additional contexts already allow for titled elements. Processors can process the new context without extra difficulty.**

4. This feature avoids the "why did they do this" condition since it prevents nesting of `<example>` as a child of `<example>`.

## Dependencies or interrelated proposals

N/A

## Modified grammar files

This solution can be achieved by adding `<example>` to the following common element sets in `dita/doctypes/rng/base/commonElementsMod.rng`:

- `basic.block`
- `basic.block.notbl`
- `basic.block.nonote`
- `basic.block.nopara`
- `basic.block.nolq`

```
<define name="basic.block">
  <a:documentation>Elements common to most body-like contexts</a:documentation>
  <choice>
    <ref name="dl"/>
    <ref name="div" dita:since="1.3"/>
    <ref name="example"/>
    <ref name="fig"/>
    <ref name="image"/>
    <ref name="lines"/>
    <ref name="lq"/>
    <ref name="note"/>
    <ref name="object"/>
    <ref name="ol"/>
    <ref name="p"/>
    <ref name="pre"/>
    <ref name="simpletable"/>
    <ref name="sl"/>
    <ref name="table"/>
    <ref name="ul"/>
  </choice>
</define>
<define name="basic.block.notbl">
  <choice>
    <ref name="dl"/>
    <ref name="div" dita:since="1.3"/>
    <ref name="example"/>
    <ref name="fig"/>
    <ref name="image"/>
    <ref name="lines"/>
    <ref name="lq"/>
    <ref name="note"/>
    <ref name="object"/>
    <ref name="ol"/>
    <ref name="p"/>
    <ref name="pre"/>
    <ref name="sl"/>
    <ref name="ul"/>
  </choice>
</define>
<define name="basic.block.nonote">
  <choice>
    <ref name="dl"/>
    <ref name="div" dita:since="1.3"/>
    <ref name="example"/>
    <ref name="fig"/>
    <ref name="image"/>
    <ref name="lines"/>
    <ref name="lq"/>
    <ref name="object"/>
  </choice>
</define>
```

```

    <ref name="ol"/>
    <ref name="p"/>
    <ref name="pre"/>
    <ref name="simpletable"/>
    <ref name="sl"/>
    <ref name="table"/>
    <ref name="ul"/>
  </choice>
</define>
<define name="basic.block.nopara">
  <choice>
    <ref name="dl"/>
    <ref name="div" dita:since="1.3"/>
    <ref name="example"/>
    <ref name="fig"/>
    <ref name="image"/>
    <ref name="lines"/>
    <ref name="lq"/>
    <ref name="note"/>
    <ref name="object"/>
    <ref name="ol"/>
    <ref name="pre"/>
    <ref name="simpletable"/>
    <ref name="sl"/>
    <ref name="table"/>
    <ref name="ul"/>
  </choice>
</define>
<define name="basic.block.nolq">
  <choice>
    <ref name="dl"/>
    <ref name="div" dita:since="1.3"/>
    <ref name="example"/>
    <ref name="fig"/>
    <ref name="image"/>
    <ref name="lines"/>
    <ref name="note"/>
    <ref name="object"/>
    <ref name="ol"/>
    <ref name="p"/>
    <ref name="pre"/>
    <ref name="simpletable"/>
    <ref name="sl"/>
    <ref name="table"/>
    <ref name="ul"/>
  </choice>
</define>

```

The solution requires the addition of a new common element set:

```

<define name="basic.block.noex">
  <a:documentation>Elements common to most body-like contexts</a:documentation>
  <choice>
    <ref name="dl"/>
    <ref name="div" dita:since="1.3"/>
    <ref name="fig"/>
    <ref name="image"/>
    <ref name="lines"/>
    <ref name="lq"/>
    <ref name="note"/>
    <ref name="object"/>
    <ref name="ol"/>
    <ref name="p"/>
    <ref name="pre"/>
    <ref name="simpletable"/>
    <ref name="sl"/>
    <ref name="table"/>
    <ref name="ul"/>
  </choice>
</define>

```

The solution requires the modification of the example.cnt model in dita/doctypes/rng/base/topicMod.rng to use the new common element set (to prevent nesting of example):

```
<define name="example.cnt">
  <choice>
    <text/>
    <ref name="basic.block.noex"/>
    <ref name="basic.ph"/>
    <ref name="data.elements.incl"/>
    <ref name="foreign.unknown.incl"/>
    <ref name="title"/>
    <ref name="txt.incl"/>
  </choice>
</define>
```

## Modified terminology

N/A

## Modified specification documentation

Since content models are autogenerated for the language reference, no changes to existing topics are needed.

## Migration plans for backward incompatibilities

Backward compatibility is not affected, since the `<example>` element is an addition to existing content models.

No existing content requires migration, since the `<example>` element is an addition to existing content models.

## Element reference topic: `<example>`

The `<example>` element is a section that contains examples that illustrate or support the current topic.

## Usage information

Use `<example>` to contain both sample code (or similar artifacts) and the discussion that illustrates the sample. For example, a DITA topic about programming code could use the `<example>` element to contain both the sample code and the text that describes the code. Similarly, a sample that included preformatted text might use the `<pre>` element along with a paragraph or list to elaborate upon sections of that text.

## Rendering expectations

Example content is rendered as a block.

## Processing expectations

N/A

## Specialization hierarchy

- topic/example

## Attributes

The following attributes are available on this element: Universal attribute group, outputclass, and spectitle.

## Intermixing examples with paragraphs

```
<section id="sect_Content">
<title>My code description</title>
<sectiondiv product="productname">
  <p><synph>variable</synph></p>
  <example><codeph>var=123</codeph></example>
</sectiondiv>
<example><title>Scenario: when to use this code</title>
<p>Lorem ipsum.</p>
<codeblock>var=123</codeblock></example></section>
```

## New <example> context within a table entry

```
<p>File maintenance commands create, modify, and delete records in the database.
An explanation and example of each maintenance command is shown in the following table.</p>
<table colsep="1" frame="all" rowsep="1" id="tb_FileMaintenance">
  <title>file maintenance commands</title>
  <tgroup cols="2">
    <thead>
      <row>
        <entry>Command</entry>
        <entry>Description</entry>
      </row>
    </thead>
    <tbody>
      <row>
        <entry><cmdname>ADD</cmdname></entry>
        <entry>
          <p>New database records are created using the <cmdname>ADD</cmdname> command.</p>
          <p>The following example illustrates the creation of a new record.
All parameter settings are strictly optional.</p>
          <example><codeblock>01 OPTIONS ABC,ADD,DEF,HIJK,LMNO,AOW=25000,HF=2</codeblock></
example>
        </entry></row></tbody></tgroup></table>
```