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DITA 1.3 proposed feature 13092

Allow <ph> within <indexterm>.

Date and version information

Include the following information:

Date completed: 6 May 2013Champion: Eliot Kimber

Email: https://lists.oasis-open.org/archives/dita/201108/msg00010.html

Original requirement

Without <ph> it is impossible to represent things like superscripts and subscripts in index entries (because <sub> and <sup> are specializations of <ph>. There is no reason to disallow <ph> within indexterm.

Use cases

Use cases include:

- · Subscripts and subscripts within index entries
- Any other typographic or semantic markup specialized from <ph> that might be need to be used in an index entry.

Benefits

This change ensures that the content model of <indexterm> is not over constrained, allowing representation of any phrase-level typographic or semantic distinction that might be needed.

Costs

- Maintainers of the DTDs and XSDs:
 - Add <ph> the content model of <indexterm>, <index-see>, and <index-see-also>.
- Editors of the DITA specification:
 - How many new topics will be required?
 - · No new topics
 - How many existing topics will need to be edited?
 - The generated content model description for <indexterm>, <index-see>, and <index-see-also> will reflect the addition of <xref>.
 - Will the feature require substantial changes to the information architecture of the DITA specification?
 - The feature does not represent a substantial change to the architecture.
- · Vendors of tools:
 - XML editors will need to allow editing of the updated content models.
 - Processors may need to provide additional rules for handling <ph> within index terms. In particular, they cannot treat index terms as simple strings. (But note that <indexterm> already allowed <keyword> and <term>, so there has always been this requirement for index entries.)
- DITA community-at-large. Will this feature add to the perception that DITA is becoming too complex?
 - This change should not add to the perception of complexity for authors.

Technical requirements

DTD declarations

Modify commonElements.mod to add "%ph;" to the content model for <indexterm>:

Modify indexingDomain.dom to add "%ph;" to the content models for <index-see> and <index-see-also>:

```
LONG NAME: Index See
                                                                            -->
<!ENTITY % index-see.content
                          "(%words.cnt;
                            %ph;
                            %indexterm;)*"
<!ENTITY % index-see.attributes
               "keyref
                           CDATA
                                      #IMPLIED
                %univ-atts;"
<!ELEMENT index-see %index-see.content;>
<!ATTLIST index-see %index-see.attributes;>
                           LONG NAME: Index See Also
<!ENTITY % index-see-also.content
                          "(%words.cnt; |
                            %ph;
                            %indexterm;)*"
```

RNG declarations

Modify commonElements.mod.rng to add "ph" to the content model for <indexterm>:

Modify indexingDomain.mod.rng to add <ph> to the content models for <index-see> and <index-see-also>:

XSD Declarations

Modify commonElementMod.xsd to add <ph> to the content model for <indexterm>:

Modify indexingDomain.xsd to add <ph> to the content models for <index-see> and <index-see-also>:

```
<xs:group name="index-see.content">
 <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
     <xs:group ref="words.cnt"/>
     <xs:group ref="ph" minOccurs="0"/>
     <xs:group ref="indexterm"/>
    </xs:choice>
  </xs:sequence>
</xs:group>
. . .
<xs:group name="index-sort-also.content">
  <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
     <xs:group ref="words.cnt"/>
     <xs:group ref="ph" minOccurs="0"/>
     <xs:group ref="indexterm"/>
   </xs:choice>
  </xs:sequence>
</xs:group>
. . .
```

Examples

Index term with various typographic elements: