



Avoiding duplicate effort with post-preprocessing in the DITA Open Toolkit

Presented by:

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What is post-preprocessing?

- Transformation code that runs after the standard OT preprocessing, but before the output-type specific code (i.e. PDF, HTML)
- Uses the `depend.preprocess.post` extension point
- Runs every time you publish, no matter what the transformation type is.



Why use post-preprocessing?

Default `<dl>`
styling (PDF)



Example `<dt>` Element

This is an example of a `<dd>` element.

Example `<dt>` Element

This is an example of a `<dd>` element.

Preferred `<dl>`
styling (PDF
and HTML)



- **Example `<dt>` Element:** This is an example of a `<dd>` element.
Some more of the `<dd>` element.
- **Another Example `<dt>` Element:** This is another example of a `<dd>` element.
Some more of the `<dd>` element.



```
<xsl:template match="dl">
  <ul class="- topic/ul ">
    <xsl:copy-of select="@*[name() != 'class']"/>
    <xsl:for-each select="dentry">
      <li class="- topic/li ">
        <xsl:copy-of select="@*[name() != 'class']"/>
        <b class="+ topic/ph hi-d/b ">
          <xsl:for-each select="dt">
            <xsl:apply-templates/>
            <xsl:if test="position() != last()">
              <xsl:text> </xsl:text>
            </xsl:if>
          </xsl:for-each>
        </b> &#8212; <xsl:apply-templates select="dd[1]/node()"/>
        <xsl:for-each select="dd[position() > 1]/node() ">
          <xsl:choose>
            <xsl:when test="local-name() = ''">
              <p class="- topic/p ">
                <xsl:apply-templates select="."/>
              </p>
            </xsl:when>
            <xsl:otherwise>
              <xsl:apply-templates select="."/>
            </xsl:otherwise>
          </xsl:choose>
        </xsl:for-each>
      </li>
    </xsl:for-each>
  </ul>
</xsl:template>
```



Why use post-preprocessing?

- Convert content to use default styling of other elements
- Eliminate duplicate code across transformation types
- Clean up topics and maps
- Restructure content



How to use post-preprocessing?

- Create the following:
 - The plugin folder
 - The plugin definition file (plugin.xml)
 - The ANT build file for the post-preprocessing target
 - The post-preprocessing XSLT file



```
<project basedir="." default="pcdl2ul" name="pcdl2ulProject">
<target name="pcdl2ul" description="Convert DITA definition lists to unordered lists">
<condition property="dita.preprocess.reloadstylesheet.pcdl2ul" value="{dita.preprocess.reloadstylesheet}">
<not><isset property="dita.preprocess.reloadstylesheet.pcdl2ul"></isset></not>
</condition>
<xslt taskname="pcdl2ul" basedir="{dita.temp.dir}" destdir="{dita.temp.dir}" includesfile="{dita.temp.dir}/{fullditatopicfile}" classpathref="dost.class.path"
reloadstylesheet="{dita.preprocess.reloadstylesheet.pcdl2ul}" style="{dita.dir}/plugins/com.tengwarystems.pc.dl2ul/xsl/pcdl2ul.xsl">
<mapper type="glob" from="*" to="*.pcdl2ul"></mapper>
<xmlcatalog refid="dita.catalog"></xmlcatalog>
</xslt>
<move todir="{dita.temp.dir}">
<fileset dir="{dita.temp.dir}" includes="**/*.pcdl2ul"></fileset>
<mapper type="glob" from="*.pcdl2ul" to="*"></mapper>
</move>
</target>
</project>
```



Things to watch out for

- Remember that you are working with normalized topics and maps, not standard source ones.
- If you are converting content from one element to another, remember to change the @class attribute value as well as the element.
- Do any of the other attributes on the source element have to be changed? Or others added?