

Print and Page Layout Community Group XSLT Extensions

The XSLT extension functions from the Print and Page Layout Community Group @ W3C (see <https://www.w3.org/community/ppl/wiki/XSLTExtensions>) allow you to run your XSL-FO formatter within your XSLT transform, and do it as often as you like, to get an area tree and make decisions based on formatted areas to do things like:

- * Adjust the start-indent of a `fo:list-block` based on the length of the longest `fo:list-item-label`; or
- * Size this text to be 61.54541015625pt so it fits this box.

XSLT and XSL-FO Processors

The extension is available for Java and DotNet and uses either the Apache FOP XSL formatter or Antenna House AHF formatter to produce the area trees.

The single Java jar file covers four combinations of XSLT processor and XSL-FO formatter:

- * Saxon 9.5 and FOP
- * Saxon 9.5 and Antenna House
- * Xalan and FOP
- * Xalan and Antenna House

The DotNet version supports:

- * DotNet 4.0 and FOP
- * DotNet 4.0 and Antenna House

API

The PPL CG provides `ppl:area-tree($fo-tree as node()) as document-node()` for running the formatter and getting the area tree plus a selection of convenience functions to help hide both the details of the area tree and the differences between the area trees of different XSL-FO formatters.

`ppl:area-tree($fo-tree as node()) as document-node()`

Runs the XSL-FO formatter on \$fo-tree to get an area tree.

XML

`<example name="Bulletpoint 2014">`

`<header>Print and Page Layout`

`<graph href="ppl-logo.svg" id="logo"/>`

`Community Group@W3C XSLT Extensions</header>`

`<box id="box01" width="240pt" height="630pt">`

`<graph id="para001">The XSLT extension function from the Print and Page Layout Community Group @ W3C XSLT Extensions</graph>`

`<!-- STYLESHEET PARAMETERS -->`

`<!-- Initial font size -->`

`<!-- Allowed difference in height between outer box and formatted text -->`

`<!-- Maximum number of iterations -->`

`<!-- Whether to use "pygmentize" to highlight inserted markup -->`

`<!-- Overrides default property values -->`

`<!-- Overrides attribute sets -->`

`<!-- Overrides block-level-sets -->`

`<!-- Overrides inline-sets -->`

`<!-- Overrides list-item-sets -->`

`<!-- Overrides page-sets -->`

`<!-- Overrides table-sets -->`

`<!-- Overrides table-cell-sets -->`

`<!-- Overrides table-column-sets -->`

`<!-- Overrides table-row-sets -->`

`<!-- Overrides table-cell-content-sets -->`

`<!-- Overrides table-column-content-sets -->`

`<!-- Overrides table-row-content-sets -->`

`<!-- Overrides table-cell-decoration-sets -->`

`<!-- Overrides table-column-decoration-sets -->`

`<!-- Overrides table-row-decoration-sets -->`

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`<!-- Overrides table-cell-decoration-sets -->`

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