

# FOP 0.20.4 Standards Compliance

## 1 W3C XSL-FO 1.0 Standard

FOP's goal is to be compliant with the W3C XSL-FO 1.0 standard. There are three levels of compliance specified in the standard: basic, extended, and complete. In the tables below, blue indicates support at the specified level of compliance, and red indicates a lack of support.

The following is a summary of FOP's current support for the standard XSL-FO objects.

Object Name	Support			Comments
	Basic	Extended	Complete	
Declarations and Pagination and Layout Formatting Objects				
root	yes	.	.	.
declarations	no	.	.	.
color-profile	.	no	.	.
page-sequence	yes	.	.	.
layout-master-set	yes	.	.	.
page-sequence-master	yes	.	.	.
single-page-master-reference	yes	.	.	.
repeatable-page-master-reference	yes	.	.	.
repeatable-page-master-alternatives		yes	.	.
conditional-page-master-reference		yes	.	.
simple-page-master	yes	.	.	.
region-body	yes	.	.	.
region-before	.	yes	.	.
region-after	.	yes	.	.
region-start	.	yes	.	.

FOP 0.20.4 Standards Compliance

region-end	.	yes	.	.
flow	yes	.	.	.
static-content	.	yes	.	.
title	.	no	.	.
Block Formatting Objects				
block	yes	.	.	.
block-container	.	partial	.	.
Inline Formatting Objects				
bidi-override	.	no	.	.
character	yes	.	.	.
initial-property-set	.	no	.	.
external-graphic	yes	.	.	.
instream-foreign-object	.	yes	.	.
inline	yes	.	.	.
inline-container	.	no	.	.
leader	partial	.	.	.
page-number	yes	.	.	.
page-number-citation	.	partial	.	<ul style="list-style-type: none"> <li>Only works for table of contents without any problems. The case where the page number doesn't fit on a line isn't handled, and any text on the same line and after the page-number might not appear exactly where you</li> </ul>

FOP 0.20.4 Standards Compliance

				want it to.
Table Formatting Objects				
table-and-caption	no	.	.	.
table	yes	.	.	.
table-column	yes	.	.	<ul style="list-style-type: none"> <li>you must explicitly specify column widths</li> </ul>
table-caption	.	no	.	.
table-header	yes	.	.	.
table-footer	.	yes	.	.
table-body	yes	.	.	.
table-row	yes	.	.	.
table-cell	yes	.	.	<ul style="list-style-type: none"> <li>must contain block-level FOs (cannot contain straight character data)</li> </ul>
List Formatting Objects				
list-block	yes	.	.	.
list-item	yes	.	.	.
list-item-body	yes	.	.	.
list-item-label	.	yes	.	.
Link and Multi Formatting Objects				
basic-link	.	yes	.	<ul style="list-style-type: none"> <li>both internal and external supported</li> </ul>
multi-switch	.	no	.	.
multi-case	no	.	.	.
multi-toggle	.	no	.	.
multi-properties	.	no	.	.

FOP 0.20.4 Standards Compliance

multi-property-set	.	no	.	.
Out-of-line Formatting Objects				
float	.	no	.	.
footnote	.	yes	.	.
footnote-body	.	yes	.	.
Other Formatting Objects				
wrapper	yes	.	.	.
marker	.	yes	.	.
retrieve-marker	.	yes	.	.

The following is a summary of FOP's current support for the standard XSL-FO properties. Please note that a number of properties and categories of properties are not supported because they do not apply to documents in visual formats.

Property Name	Support			Comments
	Basic	Extended	Complete	
Common Accessibility Properties				
source-document	na	.	.	.
role	na	.	.	.
Common Absolute Position Properties				
absolute-position	.	.	no	.
top	.	yes	.	.
right	.	yes	.	.
bottom	.	yes	.	.
left	.	yes	.	.
Common Aural Properties				
azimuth	na	.	.	.
cue-after	na	.	.	.
cue-before	na	.	.	.

*FOP 0.20.4 Standards Compliance*

elevation	na	.	.	.
pause-after	na	.	.	.
pause-before	na	.	.	.
pitch	na	.	.	.
pitch-range	na	.	.	.
play-during	na	.	.	.
richness	na	.	.	.
speak	na	.	.	.
speak-header	na	.	.	.
speak-numeral	na	.	.	.
speak-punctuation	na	.	.	.
speech-rate	na	.	.	.
stress	na	.	.	.
voice-family	na	.	.	.
volume	na	.	.	.
Common Border, Padding, and Background Properties				
background-attachment		no	.	.
background-color	yes	.	.	.
background-image	.	yes	.	.
background-repeat	.	no	.	.
background-position:horizontal		no	.	.
background-position:vertical		no	.	.
border-before-color	yes	.	.	.
border-before-style	yes	.	.	.
border-before-width	yes	.	.	.
border-after-color	yes	.	.	.
border-after-style	yes	.	.	.

FOP 0.20.4 Standards Compliance

border-after-width	yes	.	.	.
border-start-color	yes	.	.	.
border-start-style	yes	.	.	.
border-start-width	yes	.	.	.
border-end-color	yes	.	.	.
border-end-style	yes	.	.	.
border-end-width	yes	.	.	.
border-top-color	yes	.	.	.
border-top-style	yes	.	.	.
border-top-width	yes	.	.	.
border-bottom-color	yes	.	.	.
border-bottom-style	yes	.	.	.
border-bottom-width	yes	.	.	.
border-left-color	yes	.	.	.
border-left-style	yes	.	.	.
border-left-width	yes	.	.	.
border-right-color	yes	.	.	.
border-right-style	yes	.	.	.
border-right-width	yes	.	.	.
padding-before	yes	.	.	<ul style="list-style-type: none"> <li>• only one value allowed</li> <li>• only implemented for blocks</li> <li>• can't be used to make extra space (use indents + spaces instead)</li> <li>• can be used to control how much the background-color</li> </ul>

FOP 0.20.4 Standards Compliance

				extends beyond the content rectangle
padding-after	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
padding-start	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
padding-end	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
padding-top	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
padding-bottom	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
padding-left	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
padding-right	yes	.	.	<ul style="list-style-type: none"> <li>• same limitations as padding-before</li> </ul>
Common Font Properties				
font-family	yes	.	.	.
font-selection-strategy		.	no	.
font-size	yes	.	.	.
font-stretch	.	no	.	.
font-size-adjust	.	no	.	.
font-style	yes	.	.	.
font-variant	no	.	.	.
font-weight	yes	.	.	.
Common Hyphenation Properties				

FOP 0.20.4 Standards Compliance

country	.	yes	.	.
language	.	yes	.	.
script	.	no	.	.
hyphenate	.	yes	.	.
hyphenation-character		yes	.	.
hyphenation-push-character-count		yes	.	.
hyphenation-remain-character-count		yes	.	.
Common Margin Properties - Block				
margin-top	partial	.	.	• only on pages and regions
margin-bottom	partial	.	.	• only on pages and regions
margin-left	partial	.	.	• only on pages and regions
margin-right	partial	.	.	• only on pages and regions
space-before	partial	.	.	• space-before.optimum supported
space-after	partial	.	.	• space-after.optimum supported
start-indent	yes	.	.	.
end-indent	yes	.	.	.
Common Margin Properties - Inline				
space-end	no	.	.	.
space-start	no	.	.	.
Common Relative Position Properties				
relative-position	.	no	.	.
Area Alignment Properties				
alignment-adjust	no	.	.	.

FOP 0.20.4 Standards Compliance

alignment-baseline	no	.	.	.
baseline-shift	no	.	.	.
display-align	.	no	.	.
dominant-baseline	no	.	.	.
relative-align	.	no	.	.
Area Dimension Properties				
block-progression-dimension	no	.	.	.
content-height	.	no	.	.
content-width	.	no	.	.
height	yes	.	.	.
inline-progression-dimension	no	.	.	.
max-height	.	.	no	.
max-width	.	.	no	.
min-height	.	.	no	.
min-width	.	.	no	.
scaling	.	no	.	.
scaling-method	.	no	.	.
width	yes	.	.	.
Block and Line-related Properties				
hyphenation-keep	.	no	.	.
hyphenation-ladder-count	.	no	.	.
last-line-end-indent	.	no	.	.
line-height	yes	.	.	.
line-height-shift-adjustment	.	no	.	.
line-stacking-strategy	no	.	.	.
linefeed-treatment	.	no	.	.
text-align	yes	.	.	.

FOP 0.20.4 Standards Compliance

text-align-last	.	yes	.	.
text-indent	yes	.	.	.
white-space-collapse		yes	.	.
white-space-treatment		no	.	.
wrap-option	yes	.	.	.
Character Properties				
character	yes	.	.	.
letter-spacing	.	yes	.	.
suppress-at-line-break		no	.	.
text-decoration	.	yes	.	.
text-shadow	.	no	.	.
text-transform	.	no	.	.
treat-as-word-space	.	no	.	.
word-spacing	.	no	.	.
Color-related Properties				
color	yes	.	.	.
color-profile-name	.	no	.	.
rendering-intent	.	no	.	.
Float-related Properties				
clear	.	no	.	.
float	.	no	.	.
intrusion-displace	.	no	.	.
Keeps and Breaks Properties				
break-after	yes	.	.	.
break-before	yes	.	.	.
keep-together	.	partial	.	<ul style="list-style-type: none"> <li>works only in table rows</li> </ul>

FOP 0.20.4 Standards Compliance

keep-with-next	partial	.	.	<ul style="list-style-type: none"> <li>works only in table rows</li> </ul>
keep-with-previous	partial	.	.	<ul style="list-style-type: none"> <li>works only in table rows</li> </ul>
orphans	no	.	.	.
widows	no	.	.	.
Layout-related Properties				
clip	.	no	.	.
overflow	no	.	.	.
reference-orientation	.	no	.	.
span	.	yes	.	.
Leader and Rule Properties				
leader-alignment	.	yes	.	<ul style="list-style-type: none"> <li>not value "page"</li> </ul>
leader-pattern	yes	.	.	<ul style="list-style-type: none"> <li>not value "use-content"</li> </ul>
leader-pattern-width	.	yes	.	.
leader-length	yes	.	.	<ul style="list-style-type: none"> <li>leader-length.minimum is not used at all</li> </ul>
rule-style	yes	.	.	.
rule-thickness	yes	.	.	.
Properties for Dynamic Effects Formatting Objects				
active-state	.	no	.	.
auto-restore	.	no	.	.
case-name	.	no	.	.
case-title	.	no	.	.
destination-placement-offset	.	no	.	.
external-destination	.	yes	.	.

FOP 0.20.4 Standards Compliance

indicate-destination	.	no	.	.
internal-destination	.	yes	.	.
show-destination	.	no	.	.
starting-state	.	no	.	.
target-presentation-context	.	no	.	.
target-processing-context	.	no	.	.
target-style-sheet	.	no	.	.
Properties for Markers				
marker-class-name	.	no	.	.
retrieve-class-name	.	no	.	.
retrieve-position	.	no	.	.
retrieve-boundary	.	no	.	.
Properties for Number to String Conversion				
format	no	.	.	.
grouping-separator	.	no	.	.
grouping-size	.	no	.	.
letter-value	no	.	.	.
Pagination and Layout Properties				
blank-or-not-blank	.	yes	.	.
column-count	.	yes	.	.
column-gap	.	yes	.	.
extent	.	yes	.	.
flow-name	yes	.	.	.
force-page-count	.	no	.	.
initial-page-number	yes	.	.	.
master-name	yes	.	.	.
master-reference	yes	.	.	.

FOP 0.20.4 Standards Compliance

maximum-repeats	.	yes	.	.
media-usage	.	no	.	.
odd-or-even	.	yes	.	.
page-height	yes	.	.	.
page-position	.	yes	.	.
page-width	yes	.	.	.
precedence	.	no	.	.
region-name	yes	.	.	.
Table Properties				
border-after-precedence	no	.	.	.
border-before-precedence	no	.	.	.
border-collapse	.	no	.	.
border-end-precedence	no	.	.	.
border-separation	.	no	.	.
border-start-precedence	no	.	.	.
caption-side	.	.	no	.
column-number	no	.	.	.
column-width	yes	.	.	.
empty-cells	.	no	.	.
ends-row	.	no	.	.
number-columns-repeated	no	.	.	.
number-columns-spanned	yes	.	.	.
number-rows-spanned	yes	.	.	.
starts-row	.	no	.	.
table-layout	.	no	.	.
table-omit-footer-at-break	break	yes	.	.
table-omit-header-at-break	break	yes	.	.

Writing-mode-related Properties				
direction	no	.	.	.
glyph-orientation-horizontal	no	.	.	.
glyph-orientation-vertical	no	.	.	.
text-altitude	.	no	.	.
text-depth	.	no	.	.
unicode-bidi	.	no	.	.
writing-mode	no	.	.	.
Miscellaneous Properties				
content-type	.	no	.	.
id	yes	.	.	.
provisional-label-separation	.	.	.	.
provisional-distance-between-starts	.	.	.	.
ref-id	.	yes	.	.
score-spaces	.	no	.	.
src	yes	.	.	.
visibility	.	no	.	.
z-index	.	no	.	.
Shorthand Properties				
background	.	.	no	.
background-position	.	.	no	.
border	.	.	no	.
border-bottom	.	.	yes	.
border-color	.	.	yes	• only one value allowed
border-left	.	.	yes	.
border-right	.	.	yes	.

FOP 0.20.4 Standards Compliance

border-style	.	.	yes	.
border-spacing	.	.	no	.
border-top	.	.	yes	.
border-width	.	.	yes	.
cue	.	.	no	.
font	.	.	no	.
margin	.	.	partial	<ul style="list-style-type: none"> <li>only on pages and regions</li> </ul>
padding	.	.	partial	<ul style="list-style-type: none"> <li>only one value allowed</li> <li>only implemented for blocks</li> <li>can't be used to make extra space (use indents + spaces instead)</li> <li>can be used to control how much the background-color extends beyond the content rectangle</li> </ul>
page-break-after	.	.	no	.
page-break-before	.	.	no	.
page-break-inside	.	.	no	.
pause	.	.	no	.
position	.	.	partial	<ul style="list-style-type: none"> <li>"inherit" not handled</li> </ul>
size	.	.	no	.
vertical-align	.	.	no	.
white-space	.	.	no	.
xml:lang	.	.	no	.