

XSL Formatting Object Sample File

Antenna House, Inc.

January 2005

Notes: This sample is required with XSL Formatter V3.2 or later.

Table of Contents

Page Region : Standard-PageMasterA	3
Page Region : Standard-PageMasterB.....	4
Standard layout.....	5
Example of 2 columns and span	6
Space-before conditionality	7
Text position in the column.....	8
Line height.....	9
Line-height&Font-size.....	10
Creating landscape by reference orientation.....	11
Writing mode in vertical.....	12
Block position.....	13
Indent, Border, Padding.....	14
Text position in the column.....	15
Line stacking strategy.....	16
Block container and Absolute position.....	17
Inline FO.....	18
Inline container.....	19
Eexternal graphic.....	20
Border and Leader.....	21
Table.....	22
List.....	24

Page region : Standard-PageMasterA

Type of page region	region-name	background-color	margin				extent
			top	bottom	left	right	
Paper			10mm	10mm	5mm	5mm	
fo:region-body	Initial value	yellow	8mm	8mm	8mm	8mm	
fo:region-before	Initial value	aqua					5mm
fo:region-after	Initial value	fuchsia					5mm
fo:region-start	Initial value	navy					5mm
fo:region-end	Initial value	silver					5mm

Page region : Standard-PageMasterB

Type of page region	region-name	background-color	margin				extent
			top	bottom	left	right	
Paper			20mm	20mm	10mm	10mm	
fo:region-body	Initial value	yellow	20mm	20mm	15mm	15mm	
fo:region-before	Initial value	aqua					15mm
fo:region-after	Initial value	fuchsia					15mm
fo:region-start	Initial value	navy					10mm
fo:region-end	Initial value	silver					10mm

Standard layout

The purpose of converting documents into XML is to create web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

However, when creating a SGML document or an XML document, it is a hard subject to format and print it beautifully. Since the age of SGML, it is often said that we are able to realize 'one-source multi-use' by converting documents into SGML, but actually we could not even print it to paper easily.

The followings show how to print SGML, XML documents that we have often used before.

- ? Convert XML into RTF (MicrosoftWord external file format) by using a script such as Perl. Load RTF by using an application such as MicrosoftWord, and arrange the layout, print it. The formatted document will be RTF format.
- ? Specify the style of FrameMaker/SGML, load SGML by FrameMaker and arrange the layout, print it. The converted document will be in FrameMaker-specific format.
- ? Convert XML into a file format of other interactive formatting software, or into DTP. Arrange the layout by using a formatting software or DPT software. The formatted document will be in an application-specific format.

However, there are some problems. The biggest problem is that XML contents are converted into an application-specific format. We arrange the layout of transformed document and the document will be an application-specific format, separated from the source XML file. If you change the source XML document, you have to repeat the operation from the beginning.

The editing process of arranging layouts and printing cannot be finished at one time. Usually, Proofing and editing process will be taken several times to the final printout. Therefore every time XML source is modified, it is necessary to load it to the application and arrange the layout. They may be no meanings of making a document in XML and it takes more time. Even so, if you change the content in the application, the content of the XML source will become different from the final printout.

In order to achieve efficiency in moving towards XML, you will need a method which can **handle the creation of XML contents, layout modification, formatting and printing in a series of work.**

Extensible Stylesheet Language was developed by W3C (the World Wide Web Consortium) for better layout and formatting of XML documents in an effort to encourage greater diffusion and standardization of the Web. The proper abbreviated name for this specification is XSL. However, the word XSL is namely confusing these days, we describe it as XSL-FO in this document. ⁽¹⁾

IE5 can display XML by converting it to HTML by an internal process. Browsers, such as IE5, are intended for displaying pages on computer screen. Then it is hard to do page layout on a browser. Browsers are sufficient to display, but not sufficient for printing on paper.

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Example of 2 columns and span.

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- ? Specify the style of FrameMaker/SGML, load SGML by FrameMaker and arrange the layout, print it. The converted document will be in FrameMaker-specific format.
- ? Convert XML into a file format of other interactive formatting software, or into DTP. Arrange the layout by using a formatting software or DPT software. The formatted document will be in an application-specific format.

Span all (specify span="all" to the block property).

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```
Set fo:region-body : column-count="2" column-gap="16pt"
```

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```
fo:block A space-before="50mm" space-  
before.conditional="discard"
```

Example of specifying Space-before-conditional as discard. The space before setting is ignored in the first block in its containing column or page.

```
fo:block B space-before="30mm" space-  
before.conditional="retain"
```

Example of specifying Space-before-conditional as retain. The space before setting is effective in the first block in its containing column or page.

Space-before conditionality

The space-before.conditional attribute determine whether the space is preserved or discarded if the block is the first in its containing block or page. The above example shows the space between block and the border of region body.

Text alignment in the block

text-align="left" (text-align="start")

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="justify"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="center"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="right" (text-align="end")

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-indent="2em"

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text-align="left" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="justify" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="center" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="right" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-indent="4em"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

Line height

line-height="normal" (Default value)

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

line-height="18pt"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

line-height="1.8"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

line-height="180%"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

line-height="24pt"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

line-height="2.4"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

line-height="240%"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. an XML document, it is necessary to arrange the layout beautifully and print it on paper.

Line-height & Font-size

`line-height="normal"` (Default value) The purpose of **18pt: converting documents into XML is to create** Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an **18pt: XML document**, it is necessary to arrange the layout beautifully and print it on paper.

`line-height="18pt"` The purpose of **18pt: converting documents into XML is to create** Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an **18pt: XML document**, it is necessary to arrange the layout beautifully and print it on paper.

`line-height="24pt"` The purpose of **18pt: converting documents into XML is to create** Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an **18pt: XML document**, it is necessary to arrange the layout beautifully and print it on paper.

`line-height="1.8"` The purpose of **18pt: converting documents into XML is to create** Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an **18pt: XML document**, it is necessary to arrange the layout beautifully and print it on paper.

`line-height="180%"` The purpose of **18pt: converting documents into XML is to create** Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an **18pt: XML document**, it is necessary to arrange the layout beautifully and print it on paper.

`line-height="240%"` The purpose of **18pt: converting documents into XML is to create** Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an **18pt: XML document**, it is necessary to arrange the layout beautifully and print it on paper.

Here is an example of changing both line height and font size. In the default setting, line height becomes longer in proportion to the font size.

Creating landscape by reference orientation

This page is rotated 90 degrees counter-clockwise by specifying 90 to the reference orientation.

Method	Product ABCD の変更の影響	オブジェクト使用するためのアドイン対応	Windows, Solaris, Linux, Macintosh	コスト	市場性
1. ImagePrinterDriver を作る	ほぼ独立になる	それほど問題ない	不可	比較的小さい	ImagePrinterDriver の市場性を検討
2. GDI 関数の置き換え	新しい GDI 関数を使えば対応が必要など依存性がある	問題が生じてもブロックボックスになるのに対応不可	不可	やや大きい	あまり市場性はない
3. 新しいエンジンを作る	独立である	アドインを組み込むメカニズムを入れることもできるだろうが、Windows 以外の環境で動かすことを想定するならアドインまで自力開発することが必要になるだろう	最初から設計すれば可	Product ABCD の新規開発に匹敵する	Windows 以外でも動くと言う意味では、GDI 関数を使うよりは市場性があるだろう

Writing mode in vertical

This page is a sample of writing mode in vertical. Specify writing mode "tb-rl" to region-body.

方法	Product ABCDの変更の影響	オブジェクト使用するためのアドイン対応	Windows, Solaris, Linux, Macintosh	コスト	市場性
1. ImagePrinterDriverを作る	ほぼ独立になる	それほど問題ない	不可	比較的小さい	ImagePrinterDriverの市場性を検討
2. GDI 関数の置き換え	新しいGDI 関数を使えば対応が必要など依存性がある	問題が生じてもブラックボックスになるので対応不可	不可	やや大きい	あまり市場性はない
3. 新しいエンジンを作る	独立である	アドインを組み込むメカニズムを入れることもできるだろうが、Windows以外の環境で動かすことを想定するならアドインまで自力開発することになるだろう	最初から設計すれば可	Product ABCDの新規開発に匹敵する	Windows 以外でも動くと言う意味では、GDI 関数を使うよりは市場性があるだろう

Block position

space-before and space-after

fo:block (1) space-before="5mm" space-after="10mm"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

fo:block (2) space-before="7mm" space-after="4mm"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

fo:block (3) space-before="3mm" space-after="4mm"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

fo:block (4) space-before="30mm"

Example of specifying Space-before-conditionality as discard. The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

fo:block (5) space-before="50mm"

Example of specifying Space-before-conditionality as retain. The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

Indent, Border, Padding

(1) `border-style="solid" border-width="thin" start-indent="10mm" end-indent="10mm"`The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(2) `border-style="solid" border-width="10pt" border-color="yellow" start-indent="10mm" end-indent="10mm"`The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(3) `border-style="solid" border-width="10pt" border-color="olive" padding="10pt" start-indent="10mm" end-indent="10mm"` The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(4) `border-style="solid" border-width="thin"` The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(5) `border-style="solid" border-width="10pt" border-color="yellow"` The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(6) `border-style="solid" border-width="10pt" border-color="olive" padding="10pt"` The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(7) `border-style="solid" border-width="thin" margin-left="10mm" margin-right="10mm"` The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(8) `border-style="solid" border-width="10pt" border-color="yellow" margin-left="10mm" margin-right="10mm"`The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

(9) `border-style="solid" border-width="10pt" border-color="olive" padding="10pt" margin-left="10mm" margin-right="10mm"` The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others.

Text position in the column

text-align="left" (text-align="start")

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="justify"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="center"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="right" (text-align="end")

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text-align="left" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="justify" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="center" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-align="right" text-align-last="left"

The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-indent="2em" The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

text-indent="4em" The purpose of converting documents into XML is to create Web pages, to create data delivered electrically, to create electric manuals and others. However, for whatever purposes you may create an XML document, it is necessary to arrange the layout beautifully and print it on paper.

Line stacking strategy

Specify 12pt to font-size in fo:block. Specify 30pt to inline-height in fo:block.

```
line-stacking-strategy="font-height"
```

LINESTACKING STRATEGY line-**stacking**-strategy

LINESTACKING STRATEGY line-**stacking**-strategy

LINESTACKING STRATEGY line-**stacking**-
strategy

```
line-stacking-strategy="max-height"
```

LINESTACKING STRATEGY line-**stacking**-strategy

LINESTACKING STRATEGY line-**stacking**-strategy

LINESTACKING STRATEGY line-**stacking**-
strategy

```
line-stacking-strategy="line-height"
```

LINESTACKING STRATEGY line-**stacking**-strategy

LINESTACKING STRATEGY line-**stacking**-strategy

LINESTACKING STRATEGY line-**stacking**-
strategy

Block container and absolute position

Block container A
inline-progression-dimension="200pt"

Child of block container A
absolute-position="absolute"
top="10mm"

Child of block container A
absolute-position="absolute"
top="30mm"
left="10mm"

Child of block container A
absolute-position="absolute"
top="50mm"
left="20mm"

Child of block container A
absolute-position="absolute"
top="70mm"
left="30mm"

region-body	page-number
region-before	page-number-citation
region-after	table-and-caption
region-start	table
region-end	table-column
title	table
block	table-header
block-container	table-footer
character	table-body
external-graphic	table-row
instream-foreign-object	table-cell
inline	list-block
inline-container	list-item
leader	basic-link

region-body	instream-foreign-object	table-header
region-before	inline	table-footer
region-after	inline-container	table-body
region-start	leader	table-row
region-end	page-number	table-cell
title	page-number-citation	list-block
block	table-and-caption	list-item
block-container	table	basic-link
character	table-column	
external-graphic	table	

Inline FO

italic **bold** ^{superscript} _{subscript}

underline overline ~~line-through~~

border: background color


font color

red, blue, green, yellow,

font color and background color

red, blue, green, yellow, white

inline graphics

This is a button . `<fo:external-graphic src="url('img/button.png')" />` is enclosed with the tag `<fo:inline>`.

In-line Container

Notes: As this sample uses the reference-orientation property, it cannot be displayed properly in Window 9x/ME. It can be displayed properly in WindowsNT/2000.

Partial Vertical Writing

Sample of embedding a vertical-writing text in a horizontal-writing sentence.

横書きの行の中に、**縦書きの行**を埋め込みます。

Ruby

げんどうりょく
「好奇心こそ私達の**原動力**」

総ルビ

Full Ruby Japanese Text Sample

にほんこくみん、こうきゆう、へいわ、きがん、にんげん、そうご、かんけい、しばい
日本国民は、恒久の平和を念願し、人間相互の関係を支配する
すうこう、りそう、ふか、じかく、へいわ、あい、しよこみん、こうせい
崇高な理想を深く自覚するのであつて、平和を愛する諸国民の公正
しんぎ、しんらい、あんぜん、せいぞん、ほじ、けつい
と信義に信頼して、われらの安全と生存を保持しようと決意した。
へいわ、いじ、せんせい、れいぞく、あつせい、へんきよう、ちじよう
われらは、平和を維持し、専制と隷従、圧迫と偏狭を地上から
えいえん、じよきよ、つと、い、こくさいしやかい、めいよ、ちい
永遠に除去しようと努めてゐる国際社会において、名誉ある地位を
し、おもう、ぜんせかい、こくみん、きようふ、けつぼう
占めたいと思ふ。われらは、全世界の国民が、ひとしく恐怖と欠乏
まぬ、へいわ、せいぞん、けんり、ゆう、かくにん
から免かれ、平和のうちに生存する権利を有することを確認する。

fo:external-graphic



Graphics

Table

Table1

Category	Name	Definition
Absolute Unit	cm	
	mm	
	in	2.54cm
	pt	1/72in
	pc	12pt
	px	0.28mm (about 1/90inches) is preferable for printing, displaying in hand-held computer within ordinary looking distance. 1/92inches 1/72inches are also acceptable.
Relative Unit	em	Equal to the value of the font-size property. 1em is the same as font-size.

Table2 Specify the column width, inline-progression-dimension="120mm"

Category	Name	definition
Absolute Unit	cm	
	mm	
	in	2.54cm
	pt	1/72in
	pc	12pt
	px	0.28mm (about 1/90inches) is preferable for printing, displaying in hand-held computer within ordinary looking distance. 1/92inches 1/72inches are also acceptable.
Relative Unit	em	Equal to the value of the font-size property. 1em is the same as the current font-size.

Table3 Specify the text alignment centered

Category	Name	Definition
Absolute Unit	cm	
	mm	
	in	2.54cm
	pt	1/72in
	pc	12pt
	px	0.28mm (about 1/90inches) is preferable for printing, displaying in hand-held computer within ordinary looking distance. 1/92inches 1/72inches are also acceptable.
Relative Unit	em	Equal to the value of the font-size property. 1em is the same as the current font-size.

Table4 Border

Category	Name	Definition
Absolute Unit	cm	
	mm	
	in	2.54cm
	pt	1/72in
	pc	12pt
	px	0.28mm (about 1/90inches) is preferable for printing, displaying in hand-held computer within ordinary looking distance. 1/92inches 1/72inches
Relative Unit	em	Equal to the value of the font-size property. 1em is the same as the current font-size.

Table5 Set writing mode in the whole table writing-mode="tb-rl"

分類	名前	定義
絶対単位	cm mm in pt pc px	通常の距離で見られる印刷、ディスプレイ、ハンドヘルド機器では0.28mm(約1/90インチ)が望ましいが、1/92インチまたは1/72インチのような値にしても良い。
相対単位	em	現在のfont-sizeプロパティの値を単位とします。1emは現在のfont-sizeと同じです。

Table6 Set writing mode in fo:table-cell writing-mode="tb-rl"

分類	名前	定義
絶対単位	cm	
	mm	
	in	2.54cm
	pt	1/72in
	pc	12pt
	px	通常の距離で見られる印刷、ディスプレイ、ハンドヘルド機器では0.28mm(約1/90インチ)が望ましいが、1/92インチまたは1/72インチのような値にしても良い。
相対単位	em	現在のfont-sizeプロパティの値を単位とします。1emは現在のfont-sizeと同じです。

List

Unordered list

- Create a good looking front cover.
- Create a table of contents in different print format from the body.
- Make different print formats on left and right pages.
- Set header, footer and sidebar to the body text.
- Print page numbers in the header.
- Create indexes and put page numbers.
- Create footnotes.
- Create a page with columns.

Ordered list

- a. List type
 - 一. Unordered list
 - 二. Ordered list
 - 三. Definition list
- b. Table elements
 1. Low
 2. Column
 3. Cell
- c. Block element and Inline element

Definition list

List type

There are three types of lists, unordered list, ordered list and definition list.

From here

These are nests of the list. dd that does not match dt.

dt that does not have dd.

Unordered list

Unordered list is classified to square, circle or other symbols by the type of label preceding text.

Ordered list

Ordered list has various types of label format.

Table element

fo:table-caption, fo:table, fo:table-column, fo:table-head, fo:table-foot, fo:table-body, fo:table-row, fo:table-cell are available.

Color type

16 colors, red, blue, white, black and others are available. RGB()function is also available.