z3c.RML Reference

Version 3.0.1.dev0

Introduction

RML is a XML dialect for generating PDF files. Like HTML produces a page within the browser, RML produces a PDF file. The RML processor uses the ReportLab library to convert the RML text into a full PDF template.

The original version of RML was developed by ReportLab, Inc. as a commercial extension to the free ReportLab library. This original version of RML is still available and supported by ReportLab, Inc. This version of RML, z3c.RML, is a free implementation of the XML dialect based on the available documentation. While it tries to keep some level of compatibility with the original version of RML, it is intended to provde a as clean and feature-rich API as possible.

The contents of this document is auto-generated from the code itself and should thus be very accurate and complete.

Attribute Types

This section list the types of attributes used for the attributes within the RML elements.

Boolean
A boolean value. For true the values "true", "yes", and "1" are allowed. For false, the values "false", "no", "1" are allowed.

BooleanWithDefault
This is a boolean field that can also receive the value "default".

Choice
A choice of several values. The values are always case-insensitive.

Color
Requires the input of a color. There are several supported formats. Three values in a row are interpreted as RGB value ranging from 0-255. A string is interpreted as a name to a pre-defined color. The 'CMYK()' wrapper around four values represents a CMYK color specification.

Combination
A combination of several other attribute types.

File
This field will return a file object. The value itself can eith be be a relative or absolute path. Additionally the following syntax is supported: [path.to.python.mpackage]/path/to/file

FirstLevelTextNode
Gets all the text content of an element without traversing into any child-elements.

Float
An flaoting point. A minimum and maximum value can be specified.

Image
Similar to the file File attribute, except that an image is internally expected.

Integer
An integer. A minimum and maximum value can be specified.

IntegerSequence
A sequence of integers.

Measurement
This field represents a length value. The units "in" (inch), "cm", "mm", and "pt" are allowed. If no units are specified, the value is given in points/pixels.

Padding
This attribute is specific for padding and will produce the proper length of the padding sequence.

PageSize
A simple measurement pair that specifies the page size. Optionally you can also specify a the name of a page size, such as A4, letter, or legal.

RawXMLContent
Retrieve the raw content of an element. Only some special element substitution will be made.

Sequence
A list of values of a specified type.

String
A simple Bytes string.

StringOrInt
A (bytes) string or an integer.

Style
Requires a valid style to be entered. Whether the style is a paragraph, table or box style is irrelevant, except that it has to fit the tag.

Symbol
This attribute should contain the text representation of a symbol to be used.

Text
A simple unicode string.

TextBoolean
A boolean value as text. ReportLab sometimes exposes low-level APIs, so we have to provide values that are directly inserted into the PDF. For "true" the values "true", "yes", and "1" are allowed. For "false", the values "false", "no", "1" are allowed.

TextNode
Return the text content of an element.

TextNodeGrid
A grid/matrix of values retrieved from the element's content. The number of columns is specified for every case, but the number of rows is dynamic.

TextNodeSequence
A sequence of values retrieved from the element's content.

XMLContent
Same as 'RawXMLContent', except that the whitespace is normalized.

Directives

addMapping
Map various styles(bold, italic) of a font name to the actual ps fonts used.

Attributes

faceName *(required)* - String
Name: The name of the font to be mapped

bold *(required)* - Integer
Bold: Bold

italic *(required)* - Integer
Italic: Italic

psName *(required)* - String
psName: Actual font name mapped

Examples

```
<addMapping faceName="times" bold="1" italic="0" psName="Vera"/>
```

(Extracted from file *tag-addMapping.rml*, line 11) [PDF]

alias
Defines an alias for a given style.

Attributes

id *(required)* - String
Id: The id as which the style will be known.

value *(required)* - Style
Value: The style that is represented.

Examples

```
<alias id="h1" value="style.Heading1"/>
```

(Extracted from file *tag-alias.rml*, line 15) [PDF]

bar
Define the look of a bar.

Attributes

strokeColor - Color
Stroke Color: The color in which the bar border is drawn.

strokeWidth - Measurement
Stroke Width: The width of the bar border line.

fillColor - Color
Fill Color: The color with which the bar is filled.

Examples

```
<bar fillColor="blue" strokeColor="red" strokeWidth="0.5"/>
```

(Extracted from file *tag-barChart.rml*, line 22) [PDF]

barChart
Creates a two-dimensional bar chart.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement
Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

direction - Choice of ('horizontal', 'vertical')
Direction: The direction of the bars within the chart.

useAbsolute - Boolean
Use Absolute Spacing: Flag to use absolute spacing values.

barWidth - Measurement
Bar Width: The width of an individual bar.

groupSpacing - Measurement
Group Spacing: Width between groups of bars.

barSpacing - Measurement
Bar Spacing: Width between individual bars.

barLabelFormat - String
Bar Label Text Format: Formatting string for bar labels.

Sub-Directives

data *(One)*
bars *(ZeroOrOne)*
categoryAxis *(ZeroOrOne)*
valueAxis *(ZeroOrOne)*
barLabels *(ZeroOrOne)*
texts *(ZeroOrOne)*

Examples

```
<barChart dx="2in" dy="7in" dwidth="6in" dheight="4in" x="0" y="0" width="5in"
          height="3in" barSpacing="7" groupSpacing="15">
  <bars>
```

```
    <bar fillColor="blue" strokeColor="red" strokeWidth="0.5"/>
    <bar fillColor="yellow" strokeColor="green" strokeWidth="1"/>
  </bars>
  <categoryAxis strokeColor="black" strokeWidth="1">
    <labels fontName="Helvetica" fontSize="20"/>
    <categoryNames>
      <name>Category 1</name>
      <name>Category 2</name>
      <name>Category 3</name>
      <name>Category 4</name>
    </categoryNames>
  </categoryAxis>
  <valueAxis valueMin="0" valueMax="150" valueStep="30" visibleTicks="true"
             visibleLabels="true">
    <labels fontName="Helvetica"/>
  </valueAxis>
  <data>
    <series>100 110 120 130</series>
    <series> 70  80  85  90</series>
  </data>
</barChart>
```

(Extracted from file *tag-barChart.rml*, line 19) [PDF]

barChart3D

Creates a three-dimensional bar chart.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement
Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

direction - Choice of ('horizontal', 'vertical')

Direction: The direction of the bars within the chart.

useAbsolute - Boolean
Use Absolute Spacing: Flag to use absolute spacing values.

barWidth - Measurement
Bar Width: The width of an individual bar.

groupSpacing - Measurement
Group Spacing: Width between groups of bars.

barSpacing - Measurement
Bar Spacing: Width between individual bars.

barLabelFormat - String
Bar Label Text Format: Formatting string for bar labels.

thetaX - Float
Theta-X: Fraction of dx/dz.

thetaY - Float
Theta-Y: Fraction of dy/dz.

zDepth - Measurement
Z-Depth: Depth of an individual series/bar.

zSpace - Measurement
Z-Space: Z-Gap around a series/bar.

Sub-Directives

data *(One)*
bars *(ZeroOrOne)*
categoryAxis *(ZeroOrOne)*
valueAxis *(ZeroOrOne)*
barLabels *(ZeroOrOne)*
texts *(ZeroOrOne)*

Examples

```
<barChart3D dx="2in" dy="4in" dwidth="6in" dheight="4in" x="0" y="0"
            width="5in" height="2in" thetaX="0.3" thetaY="0.3" zDepth="5"
            zSpace="10" direction="vertical">
  <categoryAxis strokeColor="black" strokeWidth="1" visibleGrid="true">
    <labels fontName="Helvetica"/>
    <categoryNames>
      <name>Category 1</name>
      <name>Category 2</name>
      <name>Category 3</name>
      <name>Category 4</name>
    </categoryNames>
  </categoryAxis>
  <valueAxis valueMin="0" valueMax="150" valueStep="30" visibleTicks="true"
             visibleLabels="true" visibleGrid="true">
    <labels fontName="Helvetica"/>
  </valueAxis>
  <data>
    <series>100 110 120 130</series>
    <series> 70  80  85  90</series>
  </data>
</barChart3D>
```

(Extracted from file *tag-barChart3d.rml*, line 48) [PDF]

barCode

A barcode graphic.

Attributes

code *(required)* - Choice of ('ean13', 'qr', 'extended39', 'standard39', 'upca', 'ean8', 'extended93', 'usps_4state', 'codabar', 'msi', 'postnet', 'fim', 'code11', 'standard93', 'i2of5', 'code128')
Code: The name of the type of code to use.

width - Measurement
Width: The width of the barcode.

height - Measurement
Height: The height of the barcode.

barStrokeColor - Color
Bar Stroke Color: The color of the line strokes in the barcode.

barStrokeWidth - Measurement
Bar Stroke Width: The width of the line strokes in the barcode.

barFillColor - Color
Bar Fill Color: The color of the filled shapes in the barcode.

gap - Measurement
Gap: The width of the inter-character gaps.

barWidth - Measurement
Bar Width: The width of the smallest bar within the barcode

barHeight - Measurement
Bar Height: The height of the symbol.

ratio - Float
Ratio: The ratio of wide elements to narrow elements. Must be between 2.0 and 3.0 (or 2.2 and 3.0 if the barWidth is greater than 20 mils (.02 inch)).

checksum - Integer
Ratio: A flag that enables the computation and inclusion of the check digit.

bearers - Float
Bearers: Height of bearer bars (horizontal bars along the top and bottom of the barcode). Default is 3 x-dimensions. Set to zero for no bearer bars.(Bearer bars help detect misscans, so it is suggested to leave them on).

quiet - Boolean
Quiet Zone: A flag to include quiet zones in the symbol.

lquiet - Measurement
Left Quiet Zone: Quiet zone size to the left of code, if quiet is true. Default is the greater of .25 inch or .15 times the symbol's length.

rquiet - Measurement
Right Quiet Zone: Quiet zone size to the right of code, if quiet is true. Default is the greater of .25 inch or .15 times the symbol's length.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

humanReadable - Boolean
Human Readable: A flag when set causes the value to be printed below the bar code.

stop - Boolean
Show Start/Stop: A flag to specify whether the start/stop symbols are to be shown.

spaceWidth - Measurement
Space Width: The space of the inter-character gaps.

shortHeight - Measurement
Short Height: The height of the short bar.

textColor - Color
Text Color: The color of human readable text.

routing - String
Routing: The routing information string.

barLevel - Choice of ('q', 'h', 'm', 'l')
Bar Level: The error correction level for QR code

barBorder - Measurement
Bar Border: The width of the border around a QR code.

x - Measurement
X-Position: The x-position of the lower-left corner of the barcode.

y - Measurement
Y-Position: The y-position of the lower-left corner of the barcode.

isoScale - Boolean
Isometric Scaling: When set, the aspect ration of the barcode is enforced.

Content

TextNode *(required)*
Value: The value represented by the code.

Examples

```
<barCode x="5cm" y="24cm" code="MSI">
  23465092892
</barCode>
```

(Extracted from file *tag-barcode.rml*, line 14) [PDF]

```
<barCode x="5cm" y="17cm" height="2cm" width="5cm" code="Ean13"
         humanReadable="true" fontName="Helvetica" fontSize="7"
         barStrokeColor="blue" barFillColor="blue" textColor="blue"
         quiet="false" barHeight="0.4in" barWidth="0.009in">
  123456789012
</barCode>
```

(Extracted from file *tag-barcode.rml*, line 28) [PDF]

barCodeFlowable

Creates a bar code as a flowable.

Attributes

code *(required)* - Choice of ('ean13', 'qr', 'extended39', 'standard39', 'upca', 'ean8', 'extended93', 'usps_4state', 'codabar', 'msi', 'postnet', 'fim', 'code11', 'standard93', 'i2of5', 'code128')
Code: The name of the type of code to use.

width - Measurement
Width: The width of the barcode.

height - Measurement
Height: The height of the barcode.

barStrokeColor - Color
Bar Stroke Color: The color of the line strokes in the barcode.

barStrokeWidth - Measurement
Bar Stroke Width: The width of the line strokes in the barcode.

barFillColor - Color
Bar Fill Color: The color of the filled shapes in the barcode.

gap - Measurement
Gap: The width of the inter-character gaps.

barWidth - Measurement
Bar Width: The width of the smallest bar within the barcode

barHeight - Measurement
Bar Height: The height of the symbol.

ratio - Float
Ratio: The ratio of wide elements to narrow elements. Must be between 2.0 and 3.0 (or 2.2 and 3.0 if the barWidth is greater than 20 mils (.02 inch)).

checksum - Integer
Ratio: A flag that enables the computation and inclusion of the check digit.

bearers - Float
Bearers: Height of bearer bars (horizontal bars along the top and bottom of the barcode). Default is 3 x-dimensions. Set to zero for no bearer bars.(Bearer bars help detect misscans, so it is suggested to leave them on).

quiet - Boolean
Quiet Zone: A flag to include quiet zones in the symbol.

lquiet - Measurement
Left Quiet Zone: Quiet zone size to the left of code, if quiet is true. Default is the greater of .25 inch or .15 times the symbol's length.

rquiet - Measurement
Right Quiet Zone: Quiet zone size to the right of code, if quiet is true. Default is the greater of .25 inch or .15 times the symbol's length.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

humanReadable - Boolean
Human Readable: A flag when set causes the value to be printed below the bar code.

stop - Boolean
Show Start/Stop: A flag to specify whether the start/stop symbols are to be shown.

spaceWidth - Measurement
Space Width: The space of the inter-character gaps.

shortHeight - Measurement
Short Height: The height of the short bar.

textColor - Color
Text Color: The color of human readable text.

routing - String
Routing: The routing information string.

barLevel - Choice of ('q', 'h', 'm', 'l')
Bar Level: The error correction level for QR code

barBorder - Measurement
Bar Border: The width of the border around a QR code.

value *(required)* - String
Value: The value represented by the code.

Examples

```
<barCodeFlowable code="Code128" value="PFWZF"/>
```

(Extracted from file *tag-barCodeFlowable.rml*, line 26) [PDF]

```
<barCodeFlowable code="Code128" value="PFWZF" humanReadable="true"
                 fontName="Helvetica" fontSize="10" barFillColor="red"
                 barStrokeColor="red" quiet="false" barHeight="0.4in"
                 barWidth="0.009in"/>
```

(Extracted from file *tag-barCodeFlowable.rml*, line 35) [PDF]

barLabels

A set of labels for a bar chart

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

Sub-Directives

label *(ZeroOrMore)*

bars

Collection of bar subscriptions.

Attributes

strokeColor - Color
Stroke Color: The color in which the bar border is drawn.

strokeWidth - Measurement
Stroke Width: The width of the bar border line.

fillColor - Color
Fill Color: The color with which the bar is filled.

Sub-Directives

bar *(ZeroOrMore)*

blockAlignment

Set the text alignment.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

value *(required)* - Choice of ('left', 'decimal', 'right', 'center', 'centre')
Text Alignment: The text alignment within the cell.

Examples

```
<blockAlignment start="0,0" stop="-1,1" value="center"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 16) [PDF]

blockBackground

Define the background color of the cells. It also supports alternating colors.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

colorName - Color
Color Name: The color to use as the background for every cell.

colorsByRow - Sequence of Color
Colors By Row: A list of colors to be used circularly for rows.

colorsByCol - Sequence of Color
Colors By Column: A list of colors to be used circularly for columns.

Examples

```
<blockBackground start="1,1" stop="-2,-2" colorName="green"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 18) [PDF]

blockBottomPadding

Set the bottom padding of the cells.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

length *(required)* - Measurement
Length: The size of the padding.

Examples

```
<blockBottomPadding start="0,0" stop="-1,1" length="5mm"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 24) [PDF]

blockColBackground

Define the background colors for columns.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

colorNames *(required)* - Sequence of Color
Colors By Row: A list of colors to be used circularly for rows.

Examples

```
<blockColBackground start="0,0" stop="2,-1" colorNames="red green"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 37) [PDF]

blockFont

Set the font properties for the texts.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

name - String
Font Name: The name of the font for the cell.

size - Measurement
Font Size: The font size for the text of the cell.

leading - Measurement
Leading: The height of a single text line. It includes character height.

Examples

```
<blockFont start="0,0" stop="1,-1" name="Courier" size="14" leading="18"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 29) [PDF]

blockLeading

Set the text leading.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

length *(required)* - Measurement
Length: The height of a single text line. It includes character height.

Examples

```
<blockLeading start="0,0" stop="-1,1" length="18"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 43) [PDF]

blockLeftPadding

Set the left padding of the cells.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

length *(required)* - Measurement
Length: The size of the padding.

Examples

```
<blockLeftPadding start="0,0" stop="-1,1" length="5mm"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 26) [PDF]

blockRightPadding

Set the right padding of the cells.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

length *(required)* - Measurement
Length: The size of the padding.

Examples

```
<blockRightPadding start="0,0" stop="-1,1" length="5mm"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 22) [PDF]

blockRowBackground

Define the background colors for rows.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

colorNames *(required)* - Sequence of Color
Colors By Row: A list of colors to be used circularly for rows.

Examples

```
<blockRowBackground start="3,0" stop="-1,-1" colorNames="blue yellow"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 40) [PDF]

blockSpan

Define a span over multiple cells (rows and columns).

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

Examples

```
<blockSpan start="0,0" stop="2,2"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 48) [PDF]

blockTable

A typical block table.

Attributes

style - Style
Style: The table style that is applied to the table.

rowHeights - Sequence of Measurement
Row Heights: A list of row heights in the table.

colWidths - Sequence of Measurement
Column Widths: A list of column widths in the table.

repeatRows - Integer
Repeat Rows: A flag to repeat rows upon table splits.

alignment - Choice of ('left', 'decimal', 'right', 'center', 'centre')
Alignment: The alignment of whole table.

Sub-Directives

tr *(ZeroOrMore)*
bulkData *(ZeroOrOne)*
blockTableStyle *(ZeroOrMore)*

Examples

```
<blockTable colWidths="50% 50%" rowHeights="1cm 1cm">
  <tr>
   <td>This</td>
   <td>is</td>
  </tr>
  <tr>
    <td>a</td>
    <td>blockTable.</td>
  </tr>
</blockTable>
```

(Extracted from file *tag-blockTable-1.rml*, line 17) [PDF]

blockTableStyle

A style defining the look of a table.

Attributes

id *(required)* - String
Id: The name/id of the style.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

Sub-Directives

blockFont *(ZeroOrMore)*
blockLeading *(ZeroOrMore)*
blockTextColor *(ZeroOrMore)*
blockAlignment *(ZeroOrMore)*
blockLeftPadding *(ZeroOrMore)*
blockRightPadding *(ZeroOrMore)*
blockBottomPadding *(ZeroOrMore)*
blockTopPadding *(ZeroOrMore)*
blockBackground *(ZeroOrMore)*
blockRowBackground *(ZeroOrMore)*
blockColBackground *(ZeroOrMore)*
blockValign *(ZeroOrMore)*
blockSpan *(ZeroOrMore)*
lineStyle *(ZeroOrMore)*

Examples

```
<blockTableStyle id="custom-table">
  <blockFont start="0,0" stop="-1,-1" name="Courier-Bold" size="10"/>
</blockTableStyle>
```

(Extracted from file *tag-blockTableStyle.rml*, line 56) [PDF]

blockTextColor

Set the text color.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

colorName *(required)* - Color
Color Name: The color in which the text will appear.

Examples

```
<blockTextColor start="0,0" stop="1,-1" colorName="red"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 31) [PDF]

blockTopPadding

Set the top padding of the cells.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

length *(required)* - Measurement
Length: The size of the padding.

Examples

```
<blockTopPadding start="0,0" stop="-1,1" length="5mm"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 20) [PDF]

blockValign

Define the vertical alignment of the cells.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

value *(required)* - Choice of ('middle', 'top', 'bottom')
Vertical Alignment: The vertical alignment of the text with the cells.

Examples

```
<blockValign start="0,0" stop="2,2" value="middle"/>
```

(Extracted from file *tag-blockTableStyle.rml*, line 53) [PDF]

bookmark

This creates a bookmark to the current page which can be referred to with the given key elsewhere. (Used inside a page drawing.)

Attributes

name *(required)* - Text
Name: The name of the bookmark.

fit - Choice of ('fitr', 'xyz', 'fith', 'fitv', 'fit')
Fit: The Fit Type.

zoom - Float
Zoom: The zoom level when clicking on the bookmark.

x - Measurement
X-Position: The x-position.

y - Measurement
Y-Position: The y-position.

bookmark

This creates a bookmark to the current page which can be referred to with the given key elsewhere. (Used inside a story.)

Attributes

name *(required)* - Text
Name: The name of the bookmark.

x - Measurement
X Coordinate: The x-position of the bookmark.

y - Measurement
Y Coordinate: The y-position of the bookmark.

bookmarkPage

This creates a bookmark to the current page which can be referred to with the given key elsewhere. PDF offers very fine grained control over how Acrobat reader is zoomed when people link to this. The default is to keep the user's current zoom settings. the last arguments may or may not be needed depending on the choice of 'fitType'.

Attributes

name *(required)* - Text
Name: The name of the bookmark.

fit - Choice of ('fitr', 'xyz', 'fith', 'fitv', 'fit')
Fit: The Fit Type.

top - Measurement
Top: The top position.

bottom - Measurement

Bottom: The bottom position.

left - Measurement
Left: The left position.

right - Measurement
Right: The right position.

zoom - Float
Zoom: The zoom level when clicking on the bookmark.

Examples

```
<bookmarkPage name="TITLE"/>
```

(Extracted from file *tag-bookmark.rml*, line 20) [PDF]

```
<bookmarkPage name="PAGE_1" fitType="fitv" zoom="2" left="2cm" right="10cm"
              top="20cm"/>
```

(Extracted from file *tag-bookmark.rml*, line 31) [PDF]

bulkData

Bulk Data allows one to quickly create a table.

Content

TextNodeSequence of Sequence of Text *(required)*
Content: The bulk data.

Examples

```
<bulkData>
Product,Profit
Sprockets,26
Widgets,34
Thingummies,217
Bits &amp; Bobs,23
Total,277
</bulkData>
```

(Extracted from file *tag-blockTable-bulkData.rml*, line 16) [PDF]

buttonField

A button field within the PDF

Attributes

title *(required)* - Text
Title: The title of the field.

x *(required)* - Measurement
X-Position: The x-position of the lower-left corner of the field.

y *(required)* - Measurement
Y-Position: The y-position of the lower-left corner of the field.

value *(required)* - Choice of ('yes', 'off')
Value: The value of the button.

categoryAxis

An axis displaying categories (instead of numerical values).

Attributes

visible - Boolean
Visible: When true, draw the entire axis with all details.

visibleAxis - Boolean

Visible Axis: When true, draw the axis line.

visibleTicks - Boolean
Visible Ticks: When true, draw the axis ticks on the line.

visibleLabels - Boolean
Visible Labels: When true, draw the axis labels.

visibleGrid - Boolean
Visible Grid: When true, draw the grid lines for the axis.

strokeWidth - Measurement
Stroke Width: The width of axis line and ticks.

strokeColor - Color
Stroke Color: The color in which the axis line and ticks are drawn.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array that is used for the axis line and ticks.

gridStrokeWidth - Measurement
Grid Stroke Width: The width of the grid lines.

gridStrokeColor - Color
Grid Stroke Color: The color in which the grid lines are drawn.

gridStrokeDashArray - Sequence of Float
Grid Stroke Dash Array: The dash array that is used for the grid lines.

gridStart - Measurement
Grid Start: The start of the grid lines with respect to the axis origin.

gridEnd - Measurement
Grid End: The end of the grid lines with respect to the axis origin.

style - Choice of ('stacked', 'parallel', 'parallel_3d')
Style: The plot style of the common categories.

categoryNames - Sequence of Text
Category Names: A simple list of category names.

joinAxis - Boolean
Join Axis: When true, both axes join together.

joinAxisPos - Measurement
Join Axis Position: The position at which the axes should join together.

reverseDirection - Boolean
Reverse Direction: A flag to reverse the direction of category names.

labelAxisMode - Choice of ('high', 'low', 'axis')
Label Axis Mode: Defines the relative position of the axis labels.

tickShift - Boolean
Tick Shift: When true, place the ticks in the center of a category instead the beginning and end.

Sub-Directives

categoryNames *(ZeroOrOne)*
labels *(ZeroOrMore)*

Examples

```
<categoryAxis strokeColor="black" strokeWidth="1">
  <labels fontName="Helvetica" fontSize="20"/>
  <categoryNames>
    <name>Category 1</name>
    <name>Category 2</name>
    <name>Category 3</name>
    <name>Category 4</name>
  </categoryNames>
</categoryAxis>
```

(Extracted from file *tag-barChart.rml*, line 26) [PDF]

categoryNames

A list of category names.

Sub-Directives

name *(OneOrMore)*

Examples

```
<categoryNames>
  <name>Category 1</name>
  <name>Category 2</name>
  <name>Category 3</name>
  <name>Category 4</name>
</categoryNames>
```

(Extracted from file *tag-barChart.rml*, line 29) [PDF]

circle

Draws a circle on the canvas.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the shape.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the shape.

fill - Boolean
Fill: A flag to specify whether the shape should be filled.

stroke - Boolean
Stroke: A flag to specify whether the shape's outline should be drawn.

radius *(required)* - Measurement
Radius: The radius of the circle.

Examples

```
<circle x="10cm" y="25cm" radius="2cm" fill="false" stroke="false"/>
```

(Extracted from file *tag-circle.rml*, line 10) [PDF]

codesnippet

A code snippet with text highlighting.

Attributes

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

language - String
Language: The language the code snippet is written in.

Content

RawXMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<codesnippet language="python" style="boxed-code">
  class HelloWorld(object):

      def render(self):
          print 'Hello World!'

  HelloWorld().render()
</codesnippet>
```

(Extracted from file *tag-codesnippet.rml*, line 28) [PDF]

```
<codesnippet language="xml" style="boxed-code">
    &lt;tag attr="value"&gt;
        &lt;content&gt;Hello World!&lt;/content&gt;
    &lt;/tag&gt;
</codesnippet>
```

(Extracted from file *tag-codesnippet.rml*, line 39) [PDF]

color

Define a new color and give it a name to be known under.

Attributes

id *(required)* - String
Id: The id/name the color will be available under.

RGB - Color
RGB Color: The color value that is represented.

CMYK - Color
CMYK Color: The color value that is represented.

value - Color
Color: The color value that is represented.

spotName - String
Spot Name: The Spot Name of the CMYK color.

density - Float
Density: The color density of the CMYK color.

knockout - String
Knockout: The knockout of the CMYK color.

alpha - Float
Alpha: The alpha channel of the color.

Examples

```
<color id="favorite-color" value="yellow"/>
```

(Extracted from file *tag-color.rml*, line 9) [PDF]

condPageBreak

Switch to the next page if not enough vertical space is available.

Attributes

height *(required)* - Measurement
height: The minimal height that must be remaining on the page.

Examples

```
<condPageBreak height="8cm"/>
```

(Extracted from file *tag-condPageBreak.rml*, line 16) [PDF]

critical

Log message at CRITICAL level.

Content

RawXMLContent *(required)*
Message: The message to be logged.

Examples

```
<critical>A CRITICAL message</critical>
```

(Extracted from file *tag-log.rml*, line 37) [PDF]

cropMarks

Crop Marks specification

Attributes

name *(required)* - String
Name: The name of the index.

borderWidth - Measurement
Border Width: The width of the crop mark border.

markColor - Color
Mark Color: The color of the crop marks.

markWidth - Measurement
Mark Width: The line width of the actual crop marks.

markLength - Measurement
Mark Length: The length of the actual crop marks.

markLast - Boolean
Mark Last: If set, marks are drawn after the content is rendered.

bleedWidth - Measurement
Bleed Width: The width of the page bleed.

Examples

```
<cropMarks borderWidth="30" markWidth="2" markColor="red" markLength="20"
           markLast="0" bleedWidth="0"/>
```

(Extracted from file *tag-cropMarks.rml*, line 10) [PDF]

curves

A path of connected bezier curves drawn on the canvas.

Content

TextNodeGrid with 8 cols of Measurement *(required)*
Curve List: A list of curve coordinates to draw.

Examples

```
<curves>
  1in 1in 2in 2in 2in 3in 1in 3in
  1in 2in 2in 3in 2in 4in 1in 4in
  1in 3in 2in 4in 2in 5in 1in 5in
</curves>
```

(Extracted from file *tag-curves.rml*, line 9) [PDF]

curvesto

Deprecated: Available for ReportLab RML compatibility. Please use the "curveto" directive instead.

Content

TextNodeGrid with 6 cols of Measurement *(required)*
Curve Specification: Describes the end position and the curve properties.

curveto

Create a bezier curve from the current location to the specified one.

Content

TextNodeGrid with 6 cols of Measurement *(required)*
Curve Specification: Describes the end position and the curve properties.

Examples

```
<curveto>
  10cm 12cm 10cm 9cm 8cm 9cm
</curveto>
```

(Extracted from file *tag-path.rml*, line 51) [PDF]

data

A 1-D data set.

Sub-Directives

series *(OneOrMore)*

Examples

```
<data>
  <series>100 110 120 130</series>
  <series> 70  80  85  90</series>
</data>
```

(Extracted from file *tag-barChart.rml*, line 41) [PDF]

data

A 2-D data set.

Sub-Directives

series *(OneOrMore)*

Examples

```
<data>
  <series>
    1   1
    2   2
    2.5 1
    3   3
    4   5
  </series>
  <series>
    1   2
    2   3
    2.5 2
    3.5 5
    4   6
  </series>
</data>
```

(Extracted from file *tag-linePlot.rml*, line 32) [PDF]

data

A 1-D data set.

Sub-Directives

series *(One)*

Examples

```
<data>
  <series>10 20 30 40 50 60</series>
</data>
```

(Extracted from file *tag-pieChart.rml*, line 38) [PDF]

debug

Log message at DEBUG level.

Content

RawXMLContent *(required)*
Message: The message to be logged.

Examples

```
<debug>A DEBUG message</debug>
```

(Extracted from file *tag-log.rml*, line 33) [PDF]

docAssign

Assign a value to the namesapce.

Attributes

var *(required)* - String
Variable Name: The name under which the value is stored.

expr *(required)* - String
Expression: The expression that creates the value when evaluated.

Examples

```
<docAssign var="currentFrame" expr="doc.frame.id"/>
```

(Extracted from file *tag-doc.rml*, line 17) [PDF]

```
<docAssign var="i" expr="3"/>
```

(Extracted from file *tag-doc.rml*, line 19) [PDF]

docElse

Starts 'else' block.

Examples

```
<docElse/>
```

(Extracted from file *tag-doc.rml*, line 22) [PDF]

docExec

Execute a statement.

Attributes

stmt *(required)* - String
Statement: The statement to be executed.

Examples

```
<docExec stmt="i -= 1"/>
```

(Extracted from file *tag-doc.rml*, line 36) [PDF]

docIf

Display story flow based on the value of the condition.

Attributes

cond *(required)* - String
Condition: The condition to be tested.

Examples

```
<docIf cond="i &gt; 3">
  <para>The value of i is larger than 3</para>
<docElse/>
  <para>The value of i is not larger than to 3</para>
</docIf>
```

(Extracted from file *tag-doc.rml*, line 20) [PDF]

docPara

Create a paragraph with the value returned from the expression.

Attributes

expr *(required)* - String
Expression: The expression to be executed.

format - String
Format: The format used to render the expression value.

style - Style
Style: The style of the paragraph.

escape - Boolean
Escape Text: When set (default) the expression value is escaped.

Examples

```
<docPara expr="i" format="The value of i is %(__expr__)d"/>
```

(Extracted from file *tag-doc.rml*, line 35) [PDF]

docWhile

Repeat the included directives as long as the condition is true.

Attributes

cond *(required)* - String
Condition: The condition to be tested.

Examples

```
<docWhile cond="i">
  <docPara expr="i" format="The value of i is %(__expr__)d"/>
  <docExec stmt="i -= 1"/>
</docWhile>
```

(Extracted from file *tag-doc.rml*, line 33) [PDF]

docinit

Attributes

pageMode - Choice of ('usenone', 'fullscreen', 'usethumbs', 'useoutlines')
Page Mode: The page mode in which the document is opened in the viewer.

pageLayout - Choice of ('twocolumnright', 'onecolumn', 'twocolumnleft', 'singlepage')
Page Layout: The layout in which the pages are displayed in the viewer.

useCropMarks - Boolean
Use Crop Marks: A flag when set shows crop marks on the page.

hideToolbar - TextBoolean
Hide Toolbar: A flag indicating that the toolbar is hidden in the viewer.

hideMenubar - TextBoolean

Hide Menubar: A flag indicating that the menubar is hidden in the viewer.

hideWindowUI - TextBoolean
Hide Window UI: A flag indicating that the window UI is hidden in the viewer.

fitWindow - TextBoolean
Fit Window: A flag indicating that the page fits in the viewer.

centerWindow - TextBoolean
Center Window: A flag indicating that the page fits is centered in the viewer.

displayDocTitle - TextBoolean
Display Doc Title: A flag indicating that the document title is displayed in the viewer.

nonFullScreenPageMode - Choice of ('usenone', 'useoc', 'usethumbs', 'useoutlines')
Non-Full-Screen Page Mode: Non-Full-Screen page mode in the viewer.

direction - Choice of ('l2r', 'r2l')
Text Direction: The text direction of the PDF.

viewArea - Choice of ('trimbox', 'artbox', 'bleedbox', 'cropbox', 'mediabox')
View Area: View Area setting used in the viewer.

viewClip - Choice of ('trimbox', 'artbox', 'bleedbox', 'cropbox', 'mediabox')
View Clip: View Clip setting used in the viewer.

printArea - Choice of ('trimbox', 'artbox', 'bleedbox', 'cropbox', 'mediabox')
Print Area: Print Area setting used in the viewer.

printClip - Choice of ('trimbox', 'artbox', 'bleedbox', 'cropbox', 'mediabox')
Print Clip: Print Clip setting used in the viewer.

printScaling - Choice of ('none', 'appdefault')
Print Scaling: The print scaling mode in which the document is opened in the viewer.

Sub-Directives

color *(ZeroOrMore)*
name *(ZeroOrMore)*
registerType1Face *(ZeroOrMore)*
registerFont *(ZeroOrMore)*
registerCidFont *(ZeroOrMore)*
registerTTFont *(ZeroOrMore)*
registerFontFamily *(ZeroOrMore)*
addMapping *(ZeroOrMore)*
logConfig *(ZeroOrMore)*
cropMarks *(ZeroOrMore)*
startIndex *(ZeroOrMore)*

Examples

```
<docinit>
  <registerTTFont faceName="Vera" fileName="[z3c.rml.tests]/input/Vera.ttf"/>
              <registerTTFont faceName="VeraMono"
                              fileName="[z3c.rml]/tests/input/VeraMono.ttf"/>
</docinit>
```

(Extracted from file *tag-registerTTFont.rml*, line 8) [PDF]

```
<docinit>
  <registerTTFont faceName="Vera" fileName="[z3c.rml.tests]/input/Vera.ttf"/>
  <addMapping faceName="times" bold="1" italic="0" psName="Vera"/>
</docinit>
```

(Extracted from file *tag-addMapping.rml*, line 8) [PDF]

```
<docinit hideToolbar="true" hideMenubar="true" hideWindowUI="true"
         fitWindow="true" centerWindow="true" displayDocTitle="true"
         nonFullScreenPageMode="UseOutlines" direction="L2R"
         viewArea="MediaBox" viewClip="MediaBox" printArea="MediaBox"
         printClip="MediaBox" printScaling="None">
```

```
</docinit>
```

(Extracted from file *tag-docinit-viewer-options.rml*, line 22) [PDF]

document

Attributes

filename *(required)* - String
File Name: The default name of the output file, if no output file was provided.

title - String
Title: The "Title" annotation for the PDF document.

subject - String
Subject: The "Subject" annotation for the PDF document.

author - String
Author: The "Author" annotation for the PDF document.

creator - String
Creator: The "Creator" annotation for the PDF document.

debug - Boolean
Debug: A flag to activate the debug output.

compression - BooleanWithDefault
Compression: A flag determining whether page compression should be used.

invariant - BooleanWithDefault
Invariant: A flag that determines whether the produced PDF should be invariant with respect to the date and the exact contents.

Sub-Directives

docinit *(ZeroOrOne)*
stylesheet *(ZeroOrOne)*
template *(ZeroOrOne)*
story *(ZeroOrOne)*
pageInfo *(ZeroOrOne)*
pageDrawing *(ZeroOrMore)*

Examples

```
<document filename="tag-document.pdf">
  <template>
    <pageTemplate id="main">
      <frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
    </pageTemplate>
  </template>
  <story>
    <title>Hello World!</title>
  </story>
</document>
```

(Extracted from file *tag-document-story.rml*, line 7) [PDF]

```
<document filename="tag-document-pageDrawing.pdf">
<pageDrawing>
  <drawString x="4.1in" y="8in">Hello World!</drawString>
</pageDrawing>
</document>
```

(Extracted from file *tag-document-pageDrawing.rml*, line 7) [PDF]

```
<document filename="tag-document-annotations.pdf" title="Sample Document"
          subject="Testing/Documentation" author="Stephan Richter"
          creator="Stephan Richter">
```

```
  <template>
    <pageTemplate id="main">
      <frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
    </pageTemplate>
  </template>
  <story>
    <title>See Document Properties.</title>
  </story>
</document>
```

(Extracted from file *tag-document-annotations.rml*, line 11) [PDF]

drawAlignedString

Draws a simple string (aligned to the pivot character) onto the canvas at the specified location.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the string.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the string.

pivotChar *(required)* - Text
Text: The string/text that is put onto the canvas.

Content

RawXMLContent *(required)*
Text: The string/text that is put onto the canvas.

Examples

```
<drawAlignedString x="4.1in" y="9.8in">$ 13.63</drawAlignedString>
```

(Extracted from file *tag-drawAlignedString.rml*, line 11) [PDF]

drawCenteredString

Draws a simple string (centered aligned) onto the canvas at the specified location.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the string.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the string.

Content

RawXMLContent *(required)*
Text: The string/text that is put onto the canvas.

Examples

```
<drawCenteredString x="4.1in" y="5.8in">Hello World.</drawCenteredString>
```

(Extracted from file *tag-drawCenteredString.rml*, line 11) [PDF]

drawRightString

Draws a simple string (right aligned) onto the canvas at the specified location.

Attributes

x *(required)* - Measurement

X-Coordinate: The X-coordinate of the lower-left position of the string.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the string.

Content

RawXMLContent *(required)*
Text: The string/text that is put onto the canvas.

Examples

```
<drawRightString x="4.1in" y="5.8in">Hello World.</drawRightString>
```

(Extracted from file *tag-drawRightString.rml*, line 12) [PDF]

drawString

Draws a simple string (left aligned) onto the canvas at the specified location.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the string.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the string.

Content

RawXMLContent *(required)*
Text: The string/text that is put onto the canvas.

Examples

```
<drawString x="4.1in" y="5.8in">Hello World.</drawString>
```

(Extracted from file *tag-drawString.rml*, line 9) [PDF]

ellipse

Draws an ellipse on the canvas.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the shape.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the shape.

fill - Boolean
Fill: A flag to specify whether the shape should be filled.

stroke - Boolean
Stroke: A flag to specify whether the shape's outline should be drawn.

width *(required)* - Measurement
Width: The width of the ellipse.

height *(required)* - Measurement
Height: The height of the ellipse.

Examples

```
<ellipse x="10cm" y="25cm" width="5cm" height="3cm" fill="false"
         stroke="false"/>
```

(Extracted from file *tag-ellipse.rml*, line 10) [PDF]

error

Log message at ERROR level.

Content

RawXMLContent *(required)*
Message: The message to be logged.

Examples

```
<error>A ERROR message</error>
```

(Extracted from file *tag-log.rml*, line 36) [PDF]

fill

Set the fill color.

Attributes

color *(required)* - Color
Color: The color value to be set.

Examples

```
<fill color="red"/>
```

(Extracted from file *tag-fill.rml*, line 8) [PDF]

fixedSize

Create a container flowable of a fixed size.

Attributes

width *(required)* - Measurement
Width: The width the flowables are allotted.

height *(required)* - Measurement
Height: The height the flowables are allotted.

Examples

```
<fixedSize width="3cm" height="2cm">
  <title><font face="Courier">&lt;fixedSize&gt;</font> Tag Demo</title>
  <para>
    This tag allows keeping a set of flowables in a confined space.
  </para>
  <para>
    Lot's of text goes here. Lot's of text goes here. Lot's of text goes
    here. Lot's of text goes here. Lot's of text goes here. Lot's of text
    goes here. Lot's of text goes here. Lot's of text goes here. Lot's of
    text goes here. Lot's of text goes here. Lot's of text goes here. Lot's
    of text goes here.
  </para>
</fixedSize>
```

(Extracted from file *tag-fixedSize.rml*, line 34) [PDF]

frame

A frame on a page.

Attributes

x1 *(required)* - Measurement
X-Position: The X-Position of the lower-left corner of the frame.

y1 *(required)* - Measurement
Y-Position: The Y-Position of the lower-left corner of the frame.

width *(required)* - Measurement
Width: The width of the frame.

height *(required)* - Measurement
Height: The height of the frame.

id - Text
Id: The id of the frame.

leftPadding - Measurement
Left Padding: The left padding of the frame.

rightPadding - Measurement
Right Padding: The right padding of the frame.

topPadding - Measurement
Top Padding: The top padding of the frame.

bottomPadding - Measurement
Bottom Padding: The bottom padding of the frame.

showBoundary - Boolean
Show Boundary: A flag to show the boundary of the frame.

Examples

```
<frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
```

(Extracted from file *tag-document-story.rml*, line 11) [PDF]

```
<frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
```

(Extracted from file *tag-document-annotations.rml*, line 15) [PDF]

grid

A shape to be drawn on the canvas.

Attributes

xs *(required)* - Sequence of Measurement
X-Coordinates: A sequence x-coordinates that represent the vertical line positions.

ys *(required)* - Sequence of Measurement
Y-Coordinates: A sequence y-coordinates that represent the horizontal line positions.

Examples

```
<grid xs="1in 2in 3in 4in 5in 6in" ys="7in 7.2in 7.4in 7.6in 7.8in 8.0in"/>
```

(Extracted from file *tag-grid.rml*, line 13) [PDF]

h1

Heading 1 is a simple paragraph with a special heading 1 style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')

Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<h1>Header 1</h1>
```

(Extracted from file *tag-para.rml*, line 21) [PDF]

h2

Heading 2 is a simple paragraph with a special heading 2 style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')

Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<h2>Header 2</h2>
```

(Extracted from file *tag-para.rml*, line 22) [PDF]

h3

Heading 3 is a simple paragraph with a special heading 3 style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement

Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<h3>Header 3</h3>
```

(Extracted from file *tag-para.rml*, line 23) [PDF]

h4

Heading 4 is a simple paragraph with a special heading 4 style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement

Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style

Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<h4>Header 4</h4>
```

(Extracted from file *tag-para.rml*, line 24) [PDF]

h5

Heading 5 is a simple paragraph with a special heading 5 style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding

Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<h5>Header 5</h5>
```

(Extracted from file *tag-para.rml*, line 25) [PDF]

h6

Heading 6 is a simple paragraph with a special heading 6 style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')

Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<h6>Header 6</h6>
```

(Extracted from file *tag-para.rml*, line 26) [PDF]

hr

Create a horizontal line on the page.

Attributes

width - Measurement
Width: The width of the line on the page.

thickness - Measurement
Thickness: Line Thickness

color - Color
Color: The color of the line.

lineCap - Choice of ('default', 'square', 'round', 'butt')
Cap: The cap at the end of the line.

spaceBefore - Measurement
Space Before: The vertical space before the line.

spaceAfter - Measurement
Space After: The vertical space after the line.

align - Choice of ('left', 'decimal', 'right', 'center', 'centre')
Alignment: The alignment of the line within the frame.

valign - Choice of ('middle', 'top', 'bottom')
Vertical Alignment: The vertical alignment of the line.

dash - Sequence of Measurement
Dash-Pattern: The dash-pattern of a line.

Examples

```
<hr width="80%" thickness="2" color="blue" dash="1 3" spaceAfter="5"
    spaceBefore="5" align="center"/>
```

(Extracted from file *tag-hr.rml*, line 16) [PDF]

illustration

Inserts an illustration with graphics elements.

Attributes

width *(required)* - Measurement
Width: The width of the illustration.

height *(required)* - Measurement
Height: The height of the illustration.

Examples

```
<illustration height="3cm" width="5cm">
  <lines>
    0   0   0   3cm
    0   3cm 5cm 3cm
    5cm 3cm 5cm 0
    5cm 0   0   0
  </lines>
</illustration>
```

(Extracted from file *tag-illustration.rml*, line 19) [PDF]

image

Draws an external image on the canvas.

Attributes

file *(required)* - Image
File: Reference to the external file of the iamge.

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the shape.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the shape.

width - Measurement
Width: The width of the image.

height - Measurement
Height: The height of the image.

showBoundary - Boolean
Show Boundary: A flag determining whether a border should be drawn around the image.

preserveAspectRatio - Boolean
Preserve Aspect Ratio: A flag determining whether the image's aspect ration should be conserved under any circumstances.

mask - Color
Mask: The color mask used to render the image, or "auto" to use the alpha channel if available.

Examples

```
<image file="[z3c.rml.tests]/input/zope3logo.gif" x="2in" y="2in" width="0.5in"
       height="3in"/>
```

(Extracted from file *tag-image.rml*, line 20) [PDF]

imageAndFlowables

An image with flowables around it.

Attributes

imageName *(required)* - Image
Image: The file that is used to extract the image data.

imageWidth - Measurement
Image Width: The width of the image.

imageHeight - Measurement
Image Height: The height the image.

imageMask - Color
Mask: The color mask used to render the image, or "auto" to use the alpha channel if available.

imageLeftPadding - Measurement
Image Left Padding: The padding on the left side of the image.

imageRightPadding - Measurement
Image Right Padding: The padding on the right side of the image.

imageTopPadding - Measurement
Image Top Padding: The padding on the top of the image.

imageBottomPadding - Measurement
Image Bottom Padding: The padding on the bottom of the image.

imageSide - Choice of ('right', 'left')
Image Side: The side at which the image will be placed.

Examples

```
<imageAndFlowables imageName="[z3c.rml.tests]/input/images/cylinder.svg"
                   imageWidth="200" imageMask="white" imageSide="left">
  <h1>Wrap around</h1>
  <para>This text should wrap around the image.</para>
```

```
</imageAndFlowables>
```

(Extracted from file *tag-imageAndFlowables-svg.rml*, line 53) [PDF]

```
<imageAndFlowables imageName="[z3c.rml.tests]/input/images/replogo.gif"
                   imageWidth="200" imageMask="white" imageSide="left">
  <h1>Wrap around</h1>
  <para>This text should wrap around the image.</para>
</imageAndFlowables>
```

(Extracted from file *tag-imageAndFlowables.rml*, line 52) [PDF]

img

An image.

Attributes

src *(required)* - Image
Image Source: The file that is used to extract the image data.

width - Measurement
Image Width: The width of the image.

height - Measurement
Image Height: The height the image.

preserveAspectRatio - Boolean
Preserve Aspect Ratio: If set, the aspect ratio of the image is kept. When both, width and height, are specified, the image will be fitted into that bounding box.

mask - Color
Mask: The color mask used to render the image, or "auto" to use the alpha channel if available.

align - Choice of ('left', 'decimal', 'right', 'center', 'centre')
Alignment: The alignment of the image within the frame.

vAlign - Choice of ('middle', 'top', 'bottom')
Vertical Alignment: The vertical alignment of the image.

Examples

```
<img src="[z3c.rml.tests]/input/images/replogo.gif" width="200"/>
```

(Extracted from file *tag-img.rml*, line 19) [PDF]

```
<img src="[z3c.rml.tests]/input/images/replogo.gif" width="200" align="left"
     vAlign="top"/>
```

(Extracted from file *tag-img.rml*, line 24) [PDF]

```
<img src="[z3c.rml.tests]/input/images/replogo.gif" width="5cm" height="5cm"
     preserveAspectRatio="true"/>
```

(Extracted from file *tag-img.rml*, line 37) [PDF]

includePdfPages

Inserts a set of pages from a given PDF.

Attributes

filename *(required)* - File
Path to file: The pdf file to include.

pages - IntegerSequence
Pages: A list of pages to insert.

Examples

```
<includePdfPages filename="[z3c.rml.tests]/input/data/include-bookmarks2.pdf"/>
```

(Extracted from file *tag-includePdfPages.rml*, line 31) [PDF]

indent

Indent the contained flowables.

Attributes

left - Measurement
Left: The indentation to the left.

right - Measurement
Right: The indentation to the right.

Examples

```
<indent left="2cm">
  <para>Item 1-1</para>
  <indent left="2cm">
    <para>Item 2-1</para>
    <indent left="2cm">
      <para>Item 3-1</para>
      <para>Item 3-2</para>
    </indent>
    <para>Item 2-2</para>
    <para>Item 2-3</para>
  </indent>
  <para>Item 1-2</para>
</indent>
```

(Extracted from file *tag-indent.rml*, line 40) [PDF]

info

Log message at INFO level.

Content

RawXMLContent *(required)*
Message: The message to be logged.

Examples

```
<info>A INFO message</info>
```

(Extracted from file *tag-log.rml*, line 34) [PDF]

initialize

Do some RML processing initialization.

Sub-Directives

name *(ZeroOrMore)*
alias *(ZeroOrMore)*
color *(ZeroOrMore)*

Examples

```
<initialize>
  <alias id="h1" value="style.Heading1"/>
</initialize>
```

(Extracted from file *tag-alias.rml*, line 13) [PDF]

keepInFrame

Ask a flowable to stay within the frame.

Attributes

maxWidth - Measurement

Maximum Width: The maximum width the flowables are allotted.

maxHeight - Measurement
Maximum Height: The maximum height the flowables are allotted.

mergeSpace - Boolean
Merge Space: A flag to set whether the space should be merged.

onOverflow - Choice of ('overflow', 'shrink', 'truncate', 'error')
On Overflow: Defines what has to be done, if an overflow is detected.

id - Text
Name/Id: The name/id of the flowable.

frame - StringOrInt
Frame: The frame to which the flowable should be fitted.

Examples

```
<keepInFrame maxWidth="3cm" maxHeight="2cm" onOverflow="shrink" name="second">
  <para>
    This tag allows keeping a set of flowables in a confined space.
  </para>
</keepInFrame>
```

(Extracted from file *tag-keepInFrame.rml*, line 48) [PDF]

keepTogether

Keep the child flowables in the same frame. Add frame break when necessary.

Attributes

maxHeight - Measurement
Maximum Height: The maximum height the flowables are allotted.

Examples

```
<keepTogether>
  <para style="normal">
    This is the 1st paragraph of 3 that we wish to keep together. <br/>
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
  </para>
  <spacer length="1cm"/>
  <para style="normal">
    This is the 2nd paragraph of 3 that we wish to keep together. <br/>
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
  </para>
  <spacer length="1cm"/>
  <para style="normal">
    This is the 3rd paragraph of 3 that we wish to keep together. <br/>
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
    Some nonsense text to fill up the space.
```

```
  </para>

</keepTogether>
```

(Extracted from file *tag-keepTogether.rml*, line 34) [PDF]

label

A label for a strand.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

row - Integer
Row: The row of the strand label

col - Integer
Column: The column of the strand label.

format - String
Format: The format string for the label.

dR - Float
Radial Shift: The radial shift of the label.

Content

TextNode
Text: The label text of the strand.

Examples

```
<label row="0" col="3" dx="-10">special</label>
```

(Extracted from file *tag-spiderChart.rml*, line 61) [PDF]

label

The label of a slice within a bar chart.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

Content

TextNode *(required)*
Text: The label text to be displayed.

Examples

```
<label dx="10" dy="10" visible="true">Age 1-10</label>
```

(Extracted from file *tag-pieChart.rml*, line 51) [PDF]

label

A label for a spoke.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

Content

TextNode
Text: The text of the spoke (label).

Examples

```
<label>U</label>
```

(Extracted from file *tag-spiderChart.rml*, line 45) [PDF]

label

A simple label

Content

TextNode *(required)*
Text: The text value that is the name.

Examples

```
<label>Age  1-10</label>
```

(Extracted from file *tag-pieChart3d.rml*, line 49) [PDF]

label

A label for the chart on an axis.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

x - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the label.

y - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the label.

Content

TextNode *(required)*
Text: The label text to be displayed.

labels

A set of labels of an axis.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement

Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

x - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the label.

y - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the label.

Sub-Directives

label *(ZeroOrMore)*

Examples

```
<labels fontName="Helvetica" fontSize="20"/>
```

(Extracted from file *tag-barChart.rml*, line 28) [PDF]

labels

A set of simple labels for a chart.

Sub-Directives

label *(OneOrMore)*

Examples

```
<labels>
  <label>Age  1-10</label>
  <label>Age 11-20</label>
  <label>Age 21-30</label>
  <label>Age 31-40</label>
  <label>Age 41-50</label>
  <label>Age 51-60</label>
</labels>
```

(Extracted from file *tag-pieChart3d.rml*, line 48) [PDF]

li

An ordered list item.

Attributes

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

bulletColor - Color
Bullet Color: The color in which the bullet will appear.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletOffsetY - Measurement
Bullet Y-Offset: The vertical offset of the bullet.

bulletDedent - StringOrInt
Bullet Dedent: Either pixels of dedent or auto (default).

bulletDir - Choice of ('ltr', 'rtl')
Bullet Layout Direction: The layout direction of the bullet.

bulletFormat - String

Bullet Format: A formatting expression for the bullet text.

bulletType - Choice of ('A', 'a', 'square', 'bullet', 'rarrowhead', 'I', 'diamond', 'l', 'O', 'L', '1', 'i', 'R', 'o', 'circle', 'r', 'disc', 'bulletchar')
Bullet Type: The type of number to display.

style - Style
Style: The list style that is applied to the list.

value - Choice of ('square', 'bullet', 'diamond', 'rarrowhead', 'disc', 'circle', 'bulletchar')
Bullet Value: The type of bullet character.

Examples

```
<li value="disc" bulletFontName="Helvetica">
  <para>unordered 1</para>
</li>
```

(Extracted from file *tag-ul-ol-li.rml*, line 67) [PDF]

li

An ordered list item.

Attributes

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

bulletColor - Color
Bullet Color: The color in which the bullet will appear.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletOffsetY - Measurement
Bullet Y-Offset: The vertical offset of the bullet.

bulletDedent - StringOrInt
Bullet Dedent: Either pixels of dedent or auto (default).

bulletDir - Choice of ('ltr', 'rtl')
Bullet Layout Direction: The layout direction of the bullet.

bulletFormat - String
Bullet Format: A formatting expression for the bullet text.

bulletType - Choice of ('A', 'a', 'square', 'bullet', 'rarrowhead', 'I', 'diamond', 'l', 'O', 'L', '1', 'i', 'R', 'o', 'circle', 'r', 'disc', 'bulletchar')
Bullet Type: The type of number to display.

style - Style
Style: The list style that is applied to the list.

value - Integer
Bullet Value: The counter value.

Examples

```
<li bulletColor="gray" bulletFontName="Helvetica">
  <para>Item 1</para>
</li>
```

(Extracted from file *tag-ul-ol-li.rml*, line 87) [PDF]

line

A line description of a series of a line plot.

Attributes

strokeWidth - Measurement
Stroke Width: The width of the plot line.

strokeColor - Color
Stroke Color: The color of the plot line.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array of the plot line.

symbol - Symbol
Symbol: The symbol to be used for every data point in the plot.

name - Text
Name: The name of the line.

Examples

```
<line strokeColor="red" symbol="FilledCircle"/>
```

(Extracted from file *tag-linePlot.rml*, line 22) [PDF]

lineLabels

A set of labels of an axis.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement

Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

x - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the label.

y - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the label.

Sub-Directives

label *(ZeroOrMore)*

Examples

```
<lineLabels font="Roman-Bold" fontSize="10"/>
```

(Extracted from file *tag-linePlot.rml*, line 31) [PDF]

lineMode

Set the line mode for the following graphics elements.

Attributes

width - Measurement
Width: The line width.

dash - Sequence of Measurement
Dash-Pattern: The dash-pattern of a line.

miterLimit - Measurement
Miter Limit: The ???.

join - Choice of ('mitered', 'bevelled', 'round')
Join: The way lines are joined together.

cap - Choice of ('default', 'square', 'round', 'butt')
Cap: The cap is the desciption of how the line-endings look.

Examples

```
<lineMode width="4" dash="3 2"/>
```

(Extracted from file *tag-lineMode.rml*, line 8) [PDF]

linePlot

A line plot.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement
Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

reversePlotOrder - Boolean
Reverse Plot Order: When true, the coordinate system is reversed.

lineLabelNudge - Measurement
Line Label Nudge: The distance between the data point and its label.

lineLabelFormat - String
Line Label Format: Formatting string for data point labels.

joinedLines - Boolean
Joined Lines: When true, connect all data points with lines.

Sub-Directives

data *(One)*
lines *(ZeroOrOne)*
xValueAxis *(ZeroOrOne)*
yValueAxis *(ZeroOrOne)*
lineLabels *(ZeroOrOne)*
texts *(ZeroOrOne)*

Examples

```
<linePlot dx="2in" dy="7in" dwidth="6in" dheight="4in" x="0" y="0" width="5in"
          height="3in" joinedLines="true" lineLabelFormat="%2.0f">
  <lines>
    <line strokeColor="red" symbol="FilledCircle"/>
    <line strokeColor="blue" symbol="FilledDiamond"/>
  </lines>
  <xValueAxis valueMin="0" valueMax="5" valueStep="1">
    <labels fontName="Helvetica"/>
  </xValueAxis>
```

```
  <yValueAxis valueMin="0" valueMax="7" valueStep="1">
    <labels fontName="Helvetica"/>
  </yValueAxis>
  <lineLabels font="Roman-Bold" fontSize="10"/>
  <data>
    <series>
      1   1
      2   2
      2.5 1
      3   3
      4   5
    </series>
    <series>
      1   2
      2   3
      2.5 2
      3.5 5
      4   6
    </series>
  </data>
</linePlot>
```

(Extracted from file *tag-linePlot.rml*, line 19) [PDF]

linePlot3D

Creates a three-dimensional line plot.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement
Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

reversePlotOrder - Boolean

Reverse Plot Order: When true, the coordinate system is reversed.

lineLabelNudge - Measurement
Line Label Nudge: The distance between the data point and its label.

lineLabelFormat - String
Line Label Format: Formatting string for data point labels.

joinedLines - Boolean
Joined Lines: When true, connect all data points with lines.

thetaX - Float
Theta-X: Fraction of dx/dz.

thetaY - Float
Theta-Y: Fraction of dy/dz.

zDepth - Measurement
Z-Depth: Depth of an individual series/bar.

zSpace - Measurement
Z-Space: Z-Gap around a series/bar.

Sub-Directives

data *(One)*
lines *(ZeroOrOne)*
xValueAxis *(ZeroOrOne)*
yValueAxis *(ZeroOrOne)*
lineLabels *(ZeroOrOne)*
texts *(ZeroOrOne)*

Examples

```
<linePlot3D dx="2in" dy="7in" dwidth="6in" dheight="4in" x="0" y="0"
            width="5in" height="3in" joinedLines="true" lineLabelFormat="%2.0f"
            zDepth="0.3in" zSpace="0.3in">
  <lines>
    <line strokeColor="red" symbol="FilledCircle"/>
    <line strokeColor="blue" symbol="FilledDiamond"/>
  </lines>
  <xValueAxis valueMin="0" valueMax="5" valueStep="1">
    <labels fontName="Helvetica"/>
  </xValueAxis>
  <yValueAxis valueMin="0" valueMax="7" valueStep="1">
    <labels fontName="Helvetica"/>
  </yValueAxis>
  <lineLabels font="Roman-Bold" fontSize="10"/>
  <data>
    <series>
      1   1
      2   2
      2.5 1
      3   3
      4   5
    </series>
    <series>
      1   2
      2   3
      2.5 2
      3.5 5
      4   6
    </series>
  </data>
</linePlot3D>
```

(Extracted from file *tag-linePlot3D.rml*, line 20) [PDF]

lineStyle

Define the border line style of each cell.

Attributes

start *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
Start Coordinates: The start table coordinates for the style instruction

stop *(required)* - Sequence of Combination of Integer, Choice of ('splitfirst', 'splitlast')
End Coordinates: The end table coordinates for the style instruction

kind *(required)* - Choice of ('box', 'outline', 'innergrid', 'linebefore', 'lineabove', 'linebelow', 'lineafter', 'grid')
Kind: The kind of line actions to be taken.

thickness *(required)* - Measurement
Thickness: Line Thickness

colorName *(required)* - Color
Color: The color of the border line.

cap *(required)* - Choice of ('default', 'square', 'round', 'butt')
Cap: The cap at the end of a border line.

dash - Sequence of Measurement
Dash-Pattern: The dash-pattern of a line.

join - Choice of ('mitered', 'bevelled', 'round')
Join: The way lines are joined together.

count - Integer
Count: Describes whether the line is a single (1) or double (2) line.

Examples

```
<lineStyle start="0,0" stop="-1,-1" kind="BOX" thickness="0.25"
           colorName="black"/>
```

(Extracted from file *tag-blockTable-5.rml*, line 27) [PDF]

lines

A path of connected lines drawn on the canvas.

Content

TextNodeGrid with 4 cols of Measurement *(required)*
Line List: A list of lines coordinates to draw.

Examples

```
<lines>
  1in 7in 6in 7in
  1in 5in 6in 4in
  1in 3in 1in 1in
</lines>
```

(Extracted from file *tag-lines.rml*, line 9) [PDF]

lines

The set of all line descriptions in the line plot.

Attributes

strokeWidth - Measurement
Stroke Width: The width of the plot line.

strokeColor - Color

Stroke Color: The color of the plot line.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array of the plot line.

symbol - Symbol
Symbol: The symbol to be used for every data point in the plot.

Sub-Directives

line *(OneOrMore)*

Examples

```
<lines>
  <line strokeColor="red" symbol="FilledCircle"/>
  <line strokeColor="blue" symbol="FilledDiamond"/>
</lines>
```

(Extracted from file *tag-linePlot.rml*, line 20) [PDF]

link

Place an internal link around a set of flowables.

Attributes

destination - Text
Destination: The name of the destination to link to.

url - Text
URL: The URL to link to.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxStrokeDashArray - Sequence of Float
Box Stroke Dash Array: The dash array of the box border line.

boxStrokeColor - Color
Box Stroke Color: The color in which the box border is drawn.

Examples

```
<link destination="PAGE_1" boxStrokeColor="red" boxStrokeWidth="1"
      boxStrokeDashArray="1 2">
  <para>Go to page 1 now!</para>
</link>
```

(Extracted from file *tag-bookmark.rml*, line 23) [PDF]

```
<link url="http://www.reportlab.org">
  <para>Link to ReporLab Web Site.</para>
</link>
```

(Extracted from file *tag-bookmark.rml*, line 45) [PDF]

listStyle

Defines a list style and gives it a name.

Attributes

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

bulletColor - Color
Bullet Color: The color in which the bullet will appear.

bulletFontName - String

Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletOffsetY - Measurement
Bullet Y-Offset: The vertical offset of the bullet.

bulletDedent - StringOrInt
Bullet Dedent: Either pixels of dedent or auto (default).

bulletDir - Choice of ('ltr', 'rtl')
Bullet Layout Direction: The layout direction of the bullet.

bulletFormat - String
Bullet Format: A formatting expression for the bullet text.

bulletType - Choice of ('A', 'a', 'square', 'bullet', 'rarrowhead', 'I', 'diamond', 'l', 'O', 'L', '1', 'i', 'R', 'o', 'circle', 'r', 'disc', 'bulletchar')
Bullet Type: The type of number to display.

start - Combination of Integer, Choice of ('square', 'bullet', 'diamond', 'rarrowhead', 'disc', 'circle', 'bulletchar'), String
Start Value: The counter start value.

name *(required)* - String
Name: The name of the style.

parent - Style
Parent: The list style that will be used as a base for this one.

Examples

```
<listStyle name="MyList" bulletFontName="Helvetica-Bold" bulletFontSize="8"
           bulletColor="green" start="diamond"/>
```

(Extracted from file *tag-ul-ol-li.rml*, line 22) [PDF]

```
<listStyle name="MyEnum" bulletFontName="Helvetica-Bold" bulletFontSize="8"
           bulletFormat="(%s)" bulletType="a"/>
```

(Extracted from file *tag-ul-ol-li.rml*, line 30) [PDF]

log

Log message at DEBUG level.

Attributes

level *(required)* - Choice of ('DEBUG', 'INFO', 'WARNING', 'CRITICAL', 'ERROR')
Level: The default log level.

Content

RawXMLContent *(required)*
Message: The message to be logged.

Examples

```
<log level="WARNING">Log message with level WARNING.</log>
```

(Extracted from file *tag-log.rml*, line 32) [PDF]

logConfig

Configure the render logger.

Attributes

level - Choice of ('DEBUG', 'INFO', 'WARNING', 'CRITICAL', 'ERROR')
Level: The default log level.

format - String
Format: The format of the log messages.

filename *(required)* - File
File Name: The path to the file that is being logged.

filemode - Choice of ('write', 'append')
File Mode: The mode to open the file in.

datefmt - String
Date Format: The format of the log message date.

Examples

```
<logConfig level="DEBUG" format="%(asctime)s %(levelname)s - %(message)s"
           datefmt="%Y-%m-%dT%H:%M:%S" filename="[z3c.rml.tests]/render.log"
           filemode="APPEND"/>
```

(Extracted from file *tag-log.rml*, line 15) [PDF]

mergePage

Merges an existing PDF Page into the one to be generated.

Attributes

filename *(required)* - File
File: Reference to the PDF file to extract the page from.

page *(required)* - Integer
Page Number: The page number of the PDF file that is used to merge..

moveto

Move the path cursor to the specified location.

Content

TextNodeSequence of Measurement *(required)*
Position: Position to which the path pointer is moved to.

Examples

```
<moveto>
  2cm 15cm
</moveto>
```

(Extracted from file *tag-path.rml*, line 44) [PDF]

name

A category name

Content

TextNode *(required)*
Text: The text value that is the name.

Examples

```
<name>Category 1</name>
```

(Extracted from file *tag-barChart.rml*, line 30) [PDF]

name

Defines a name for a string.

Attributes

id *(required)* - String
Id: The id under which the value will be known.

value *(required)* - Text
Value: The text that is displayed if the id is called.

Examples

```
<name id="DocTitle" value="The Document Title"/>
```

(Extracted from file *tag-name.rml*, line 16) [PDF]

namedString

Defines a name for a string.

Attributes

id *(required)* - String
Id: The id under which the value will be known.

Content

XMLContent *(required)*
Value: The text that is displayed if the id is called.

nextFrame

Switch to the next frame.

Attributes

name - StringOrInt
Name: The name or index of the next frame.

Examples

```
<nextFrame/>
```

(Extracted from file *tag-nextFrame.rml*, line 16) [PDF]

nextPage

Switch to the next page.

Examples

```
<nextPage/>
```

(Extracted from file *tag-nextPage.rml*, line 16) [PDF]

ol

An ordered list.

Attributes

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

bulletColor - Color
Bullet Color: The color in which the bullet will appear.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletOffsetY - Measurement
Bullet Y-Offset: The vertical offset of the bullet.

bulletDedent - StringOrInt
Bullet Dedent: Either pixels of dedent or auto (default).

bulletDir - Choice of ('ltr', 'rtl')
Bullet Layout Direction: The layout direction of the bullet.

bulletFormat - String
Bullet Format: A formatting expression for the bullet text.

start - Combination of Integer, Choice of ('square', 'bullet', 'diamond', 'rarrowhead', 'disc', 'circle', 'bulletchar'), String
Start Value: The counter start value.

style - Style
Style: The list style that is applied to the list.

bulletType - Choice of ('A', 'a', 'I', 'l', 'O', 'L', '1', 'i', 'R', 'o', 'r')
Bullet Type: The type of bullet formatting.

Sub-Directives

li *(ZeroOrMore)*

Examples

```
<ol bulletColor="orange" bulletFontName="Times-Roman">
  <li bulletColor="gray" bulletFontName="Helvetica">
    <para>Item 1</para>
  </li>
  <li>
    <para>Item 2</para>
  </li>
</ol>
```

(Extracted from file *tag-ul-ol-li.rml*, line 85) [PDF]

option

An option in the select field.

Content

TextNode *(required)*
Value: The value of the option.

Examples

```
<option>Option 1</option>
```

(Extracted from file *tag-selectField.rml*, line 20) [PDF]

outlineAdd

Add a new entry to the outline of the PDF.

Attributes

key - String
Key: The unique key of the item.

level - Integer
Level: The level in the outline tree.

closed - Boolean
Closed: A flag to determine whether the sub-tree is closed by default.

Content

TextNode *(required)*
Title: The text displayed for this item.

Examples

```
<outlineAdd>Top Level</outlineAdd>
```

(Extracted from file *tag-outlineAdd.rml*, line 14) [PDF]

```
<outlineAdd level="1" closed="no">Item 1-1</outlineAdd>
```

(Extracted from file *tag-outlineAdd.rml*, line 15) [PDF]

pageDrawing

Draws directly on the content of one page's canvas. Every call of this directive creates a new page.

Sub-Directives

saveState *(ZeroOrMore)*
restoreState *(ZeroOrMore)*
drawString *(ZeroOrMore)*
drawRightString *(ZeroOrMore)*
drawCenteredString *(ZeroOrMore)*
drawCentredString *(ZeroOrMore)*
drawAlignedString *(ZeroOrMore)*
ellipse *(ZeroOrMore)*
circle *(ZeroOrMore)*
rect *(ZeroOrMore)*
grid *(ZeroOrMore)*
lines *(ZeroOrMore)*
curves *(ZeroOrMore)*
image *(ZeroOrMore)*
place *(ZeroOrMore)*
textAnnotation *(ZeroOrMore)*
path *(ZeroOrMore)*
fill *(ZeroOrMore)*
stroke *(ZeroOrMore)*
setFont *(ZeroOrMore)*
setFontSize *(ZeroOrMore)*
scale *(ZeroOrMore)*
translate *(ZeroOrMore)*
rotate *(ZeroOrMore)*
skew *(ZeroOrMore)*
transform *(ZeroOrMore)*
lineMode *(ZeroOrMore)*
barCode *(ZeroOrMore)*
textField *(ZeroOrMore)*
buttonField *(ZeroOrMore)*
selectField *(ZeroOrMore)*
barChart *(ZeroOrMore)*
barChart3D *(ZeroOrMore)*
linePlot *(ZeroOrMore)*
linePlot3D *(ZeroOrMore)*
pieChart *(ZeroOrMore)*
pieChart3D *(ZeroOrMore)*
spiderChart *(ZeroOrMore)*
bookmark *(ZeroOrMore)*
plugInGraphic *(ZeroOrMore)*

Examples

```
<pageDrawing>
  <drawString x="4.1in" y="5.8in">Hello World.</drawString>
</pageDrawing>
```

(Extracted from file *tag-drawString.rml*, line 8) [PDF]

pageGraphics

Define the page graphics for the page template.

Examples

```
<pageGraphics>
  <setFont name="Helvetica-BoldOblique" size="18"/>
  <drawString x="1cm" y="28cm">Graphic Line</drawString>
</pageGraphics>
```

(Extracted from file *tag-pageGraphics.rml*, line 9) [PDF]

pageInfo

Set's up page-global settings.

Attributes

pageSize *(required)* - PageSize
Page Size: The page size of all pages within this document.

Examples

```
<pageInfo pageSize="(4in, 6in)"/>
```

(Extracted from file *tag-pageInfo.rml*, line 7) [PDF]

```
<pageInfo pageSize="LEGAL"/>
```

(Extracted from file *tag-pageInfo-2.rml*, line 7) [PDF]

pageTemplate

Define a page template.

Attributes

id *(required)* - Text
Id: The id of the template.

pagesize - PageSize
Page Size: The Page Size.

autoNextTemplate - String
Auto Next Page Template: The page template to use automatically for the next page.

Sub-Directives

frame *(OneOrMore)*
pageGraphics *(ZeroOrOne)*
mergePage *(ZeroOrOne)*

Examples

```
<pageTemplate id="main">
  <frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
</pageTemplate>
```

(Extracted from file *tag-document-story.rml*, line 9) [PDF]

```
<pageTemplate id="main">
  <frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
</pageTemplate>
```

(Extracted from file *tag-document-annotations.rml*, line 13) [PDF]

para

Lays out an entire paragraph.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<para>Paragraph</para>
```

(Extracted from file *tag-para.rml*, line 27) [PDF]

paraStyle

Defines a paragraph style and gives it a name.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

name *(required)* - String
Name: The name of the style.

alias - String
Alias: An alias under which the style will also be known as.

parent - Style
Parent: The apragraph style that will be used as a base for this one.

Examples

```
<paraStyle name="large" fontSize="3cm" textColor="red"/>
```

(Extracted from file *simple-layout.rml*, line 14) [PDF]

param

Sets one paramter for the text annotation.

Attributes

name *(required)* - String
Name: The name of the paramter.

Content

TextNode *(required)*
Value: The parameter value.

Examples

```
<param name="Rect">0,0,1,1</param>
```

(Extracted from file *tag-textAnnotation.rml*, line 9) [PDF]

path

Create a line path.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the shape.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the shape.

fill - Boolean
Fill: A flag to specify whether the shape should be filled.

stroke - Boolean
Stroke: A flag to specify whether the shape's outline should be drawn.

close - Boolean
Close Path: A flag specifying whether the path should be closed.

clip - Boolean
Clip Path: A flag specifying whether the path should clip overlapping elements.

Content

TextNodeGrid with 2 cols of Measurement *(required)*
Points: A list of coordinate points that define th path.

Sub-Directives

moveto *(ZeroOrMore)*
curveto *(ZeroOrMore)*
curvesto *(ZeroOrMore)* *(Deprecated)*

Examples

```
<path x="2cm" y="15cm" fill="true">
  8cm 15cm
  <curvesto>
    10cm 15cm 10cm 12cm 8cm 12cm
  </curvesto>
  2cm 12cm
  <moveto>
    2cm 15cm
  </moveto>
</path>
```

(Extracted from file *tag-path.rml*, line 38) [PDF]

```
<path x="8cm" y="12cm" fill="true">
  <curveto>
    10cm 12cm 10cm 9cm 8cm 9cm
  </curveto>
</path>
```

(Extracted from file *tag-path.rml*, line 50) [PDF]

pieChart

A pie chart.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement

Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

startAngle - Integer
Start Angle: The start angle in the chart of the first slice in degrees.

direction - Choice of ('clockwise', 'anticlockwise')
Direction: The direction in which the pie chart will be built.

checkLabelOverlap - Boolean
Check Label Overlap: When true, check and attempt to fix standard label overlaps

pointerLabelMode - Choice of ('none', 'leftandright', 'leftright')
Pointer Label Mode: The location relative to the slace the label should be placed.

sameRadii - Boolean
Same Radii: When true, make x/y radii the same.

orderMode - Choice of ('alternate', 'fixed')
Order Mode:

xradius - Measurement
X-Radius: The radius of the X-directions

yradius - Measurement
Y-Radius: The radius of the Y-directions

Sub-Directives

data *(One)*
slices *(ZeroOrOne)*
labels *(ZeroOrOne)*
texts *(ZeroOrOne)*

Examples

```
<pieChart dx="2in" dy="7in" dwidth="6in" dheight="4in" x="0" y="0" width="3in"
          height="3in">
  <labels>
    <label>a</label>
    <label>b</label>
    <label>c</label>
    <label>d</label>
    <label>e</label>
    <label>f</label>
  </labels>
  <slices strokeWidth="0.5">
    <slice fillColor="darkcyan"/>
    <slice fillColor="blueviolet"/>
    <slice fillColor="blue"/>
    <slice fillColor="cyan" popout="10" strokeWidth="2" strokeDashArray="2 2"/>
    <slice fillColor="aquamarine"/>
    <slice fillColor="cadetblue"/>
```

```
    <slice fillColor="lightcoral"/>
  </slices>
  <data>
    <series>10 20 30 40 50 60</series>
  </data>
</pieChart>
```

(Extracted from file *tag-pieChart.rml*, line 18) [PDF]

pieChart3D

A 3-D pie chart.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement
Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

startAngle - Integer
Start Angle: The start angle in the chart of the first slice in degrees.

direction - Choice of ('clockwise', 'anticlockwise')
Direction: The direction in which the pie chart will be built.

checkLabelOverlap - Boolean
Check Label Overlap: When true, check and attempt to fix standard label overlaps

pointerLabelMode - Choice of ('none', 'leftandright', 'leftright')
Pointer Label Mode: The location relative to the slace the label should be placed.

sameRadii - Boolean
Same Radii: When true, make x/y radii the same.

orderMode - Choice of ('alternate', 'fixed')
Order Mode:

xradius - Measurement

X-Radius: The radius of the X-directions

yradius - Measurement
Y-Radius: The radius of the Y-directions

perspective - Float
Perspsective: The flattening parameter.

depth_3d - Measurement
3-D Depth: The depth of the pie.

angle_3d - Float
3-D Angle: The view angle in the Z-coordinate.

Sub-Directives

slices *(One)*
texts *(ZeroOrOne)*

Examples

```
<pieChart3D dx="2in" dy="7in" dwidth="6in" dheight="4in" x="0" y="0"
            width="3in" height="3in">
  <labels>
    <label>a</label>
    <label>b</label>
    <label>c</label>
    <label>d</label>
    <label>e</label>
    <label>f</label>
  </labels>
  <slices strokeWidth="0.5">
    <slice fillColor="darkcyan"/>
    <slice fillColor="blueviolet"/>
    <slice fillColor="blue"/>
    <slice fillColor="cyan" popout="10" strokeWidth="2" strokeDashArray="2 2"/>
    <slice fillColor="aquamarine"/>
    <slice fillColor="cadetblue"/>
    <slice fillColor="lightcoral"/>
  </slices>
  <data>
    <series>10 20 30 40 50 60</series>
  </data>
</pieChart3D>
```

(Extracted from file *tag-pieChart3d.rml*, line 18) [PDF]

place

Draws a set of flowables on the canvas within a given region.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the place.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the place.

width - Measurement
Width: The width of the place.

height - Measurement
Height: The height of the place.

Examples

```
<place x="1cm" y="10cm" width="13cm" height="4cm">
  <para>A paragraph within the place.</para>
```

```
</place>
```

(Extracted from file *tag-place.rml*, line 52) [PDF]

plugInFlowable

Inserts a custom flowable developed in Python.

Attributes

module *(required)* - String
Module: The Python module in which the flowable is located.

function *(required)* - String
Function: The name of the factory function within the module that returns the custom flowable.

Content

TextNode
Parameters: A list of parameters encoded as a long string.

Examples

```
<plugInFlowable module="z3c.rml.tests.flowable" function="TestFlowable">
  Some text.
</plugInFlowable>
```

(Extracted from file *tag-plugInFlowable.rml*, line 22) [PDF]

plugInGraphic

Inserts a custom graphic developed in Python.

Attributes

module *(required)* - String
Module: The Python module in which the flowable is located.

function *(required)* - String
Function: The name of the factory function within the module that returns the custom flowable.

Content

TextNode
Parameters: A list of parameters encoded as a long string.

Examples

```
<plugInGraphic module="z3c.rml.tests.module" function="symbols">
  n=4,x="1in",y="7in",name="StarFive",dx="15pt",dy="0",
  size="10pt",fillColor="red",strokeColor="blue",
  strokeWidth="1.5pt"
</plugInGraphic>
```

(Extracted from file *tag-plugInGraphic.rml*, line 8) [PDF]

pointer

A pointer to a slice in a pie chart.

Attributes

strokeColor - Color
Stroke Color: The color of the pointer line.

strokeWidth - Measurement
Stroke Width: The wodth of the pointer line.

elbowLength - Measurement
Elbow Length: The length of the final segment of the pointer.

edgePad - Measurement

Edge Padding: The padding between between the pointer label and box.

piePad - Measurement
Pie Padding: The padding between between the pointer label and chart.

Examples

```
<pointer strokeColor="darkred"/>
```

(Extracted from file *tag-pieChart.rml*, line 52) [PDF]

pre

A preformatted text, similar to the <pre> tag in HTML.

Attributes

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

maxLineLength - Integer
Max Line Length: The maximum number of characters on one line.

newLineChars - Text
New Line Characters: The characters placed at the beginning of a wrapped line

Content

RawXMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<pre>Preformatted <b>text</b> only.</pre>
```

(Extracted from file *tag-para.rml*, line 28) [PDF]

pto

A container for flowables decorated with trailer & header lists. If the split operation would be called then the trailer and header lists are injected before and after the split. This allows specialist "please turn over" and "continued from previous" like behaviours.

Examples

```
<pto>
  <pto_header>
    <spacer length="1cm"/>
    <para><b>... let's go on</b></para>
  </pto_header>
  <pto_trailer>
    <spacer length="1cm"/>
    <para><b>... please continue on the next page.</b></para>
  </pto_trailer>
  <para>
    Main text. Main text. Main text. Main text. Main text. Main text. Main
    text. Main text. Main text. Main text. Main text. Main text. Main
    text. Main text. Main text. Main text.
  </para>
</pto>
```

(Extracted from file *tag-pto.rml*, line 70) [PDF]

rect

Draws an ellipse on the canvas.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the shape.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the shape.

fill - Boolean
Fill: A flag to specify whether the shape should be filled.

stroke - Boolean
Stroke: A flag to specify whether the shape's outline should be drawn.

width *(required)* - Measurement
Width: The width of the rectangle.

height *(required)* - Measurement
Height: The height of the rectangle.

round - Measurement
Corner Radius: The radius of the rounded corners.

href - Text
Link URL: When specified, the rectangle becomes a link to that URL.

destination - Text
Link Destination: When specified, the rectangle becomes a link to that destination.

Examples

```
<rect x="8cm" y="20cm" width="5cm" height="3cm"/>
```

(Extracted from file *tag-rectange.rml*, line 9) [PDF]

registerCidFont

Register a new CID font given the face name.

Attributes

faceName *(required)* - String
Face Name: The name of the face the font uses. The face has to be previously registered.

encName - String
Encoding Name: The name of the encoding to use for the font.

Examples

```
<registerCidFont faceName="HeiseiMin-W3"/>
```

(Extracted from file *tag-registerCidFont.rml*, line 8) [PDF]

```
<registerCidFont faceName="HeiseiMin-W3" encName="90ms-RKSJ-H"/>
```

(Extracted from file *tag-registerCidFont.rml*, line 10) [PDF]

registerFont

Register a new font based on a face and encoding.

Attributes

name *(required)* - String
Name: The name under which the font can be used in style declarations or other parameters that lookup a font.

faceName *(required)* - String
Face Name: The name of the face the font uses. The face has to be previously registered.

encName *(required)* - String
Encoding Name: The name of the encdoing to be used.

Examples

```
<registerFont name="DarkGardenMK" faceName="DarkGardenMK"
              encName="WinAnsiEncoding"/>
```

(Extracted from file *tag-registerType1Face.rml*, line 14) [PDF]

registerFontFamily

Register a new font family.

Attributes

name *(required)* - String
Name: The name of the font family.

normal - String
Normal Font Name: The name of the normal font variant.

bold - String
Bold Font Name: The name of the bold font variant.

italic - String
Italic Font Name: The name of the italic font variant.

boldItalic *(required)* - String
Bold/Italic Font Name: The name of the bold/italic font variant.

registerTTFont

Register a new TrueType font given the TT file and face name.

Attributes

faceName *(required)* - String
Face Name: The name of the face the font uses. The face has to be previously registered.

fileName *(required)* - File
File Name: File path of the of the TrueType font.

Examples

```
<registerTTFont faceName="Vera" fileName="[z3c.rml.tests]/input/Vera.ttf"/>
```

(Extracted from file *tag-registerTTFont.rml*, line 10) [PDF]

```
<registerTTFont faceName="VeraMono"
                fileName="[z3c.rml]/tests/input/VeraMono.ttf"/>
```

(Extracted from file *tag-registerTTFont.rml*, line 13) [PDF]

registerType1Face

Register a new Type 1 font face.

Attributes

afmFile *(required)* - File
AFM File: Path to AFM file used to register the Type 1 face.

pfbFile *(required)* - File
PFB File: Path to PFB file used to register the Type 1 face.

Examples

```
<registerType1Face afmFile="DarkGardenMK.afm" pfbFile="DarkGardenMK.pfb"/>
```

(Extracted from file *tag-registerType1Face.rml*, line 9) [PDF]

restoreState

Saves the current canvas state.

Examples

```
<restoreState/>
```

(Extracted from file *tag-saveState-restoreState.rml*, line 14) [PDF]

rotate

Rotate the drawing counterclockwise.

Attributes

degrees *(required)* - Measurement
Angle: The angle in degrees.

Examples

```
<rotate degrees="15"/>
```

(Extracted from file *tag-rotate.rml*, line 13) [PDF]

saveState

Saves the current canvas state.

Examples

```
<pageDrawing>
  <setFont name="Helvetica" size="9"/>
  <drawString x="1in" y="10in">Text in Helvetica 9</drawString>
  <saveState/>
  <setFont name="Courier" size="12"/>
  <drawString x="1in" y="9in">Text in Courier 12</drawString>
  <restoreState/>
  <drawString x="1in" y="8in">Text in Helvetica 9</drawString>
</pageDrawing>
```

(Extracted from file *tag-saveState-restoreState.rml*, line 8) [PDF]

scale

Scale the drawing using x and y scaling factors.

Attributes

sx - Float
X-Scaling-Factor: The scaling factor applied on x-coordinates.

sy - Float
Y-Scaling-Factor: The scaling factor applied on y-coordinates.

Examples

```
<scale sx="1" sy="1.5"/>
```

(Extracted from file *tag-scale.rml*, line 13) [PDF]

selectField

A selection field within the PDF

Attributes

title *(required)* - Text
Title: The title of the field.

x *(required)* - Measurement
X-Position: The x-position of the lower-left corner of the field.

y *(required)* - Measurement
Y-Position: The y-position of the lower-left corner of the field.

width *(required)* - Measurement
Width: The width of the select field.

height *(required)* - Measurement
Height: The height of the select field.

value - Text
Value: The default value of the field.

Sub-Directives

option *(ZeroOrMore)*

Examples

```
<selectField title="select1" value="Option 2" x="4cm" y="22.9cm" width="5cm"
             height="15">
  <option>Option 1</option>
  <option>Option 2</option>
  <option>Option 3</option>
</selectField>
```

(Extracted from file *tag-selectField.rml*, line 19) [PDF]

series

A one-dimensional series.

Content

TextNodeSequence of Float *(required)*
Values: Numerical values representing the series' data.

Examples

```
<series>100 110 120 130</series>
```

(Extracted from file *tag-barChart.rml*, line 43) [PDF]

series

A two-dimensional series.

Content

TextNodeGrid with 2 cols of Float *(required)*
Values: Numerical values representing the series' data.

Examples

```
<series>
  1   1
  2   2
  2.5 1
  3   3
  4   5
</series>
```

(Extracted from file *tag-linePlot.rml*, line 33) [PDF]

setFont

Set the font name and/or size.

Attributes

name *(required)* - String
Font Name: The name of the font as it was registered.

size *(required)* - Measurement
Size: The font size.

leading - Measurement
Leading: The font leading.

Examples

```
<setFont name="Helvetica" size="9"/>
```

(Extracted from file *tag-setFont.rml*, line 9) [PDF]

```
<setFont name="Helvetica-BoldOblique" size="18"/>
```

(Extracted from file *tag-pageGraphics.rml*, line 10) [PDF]

setFontSize

Set the font size.

Attributes

size *(required)* - Measurement
Size: The font size.

leading - Measurement
Leading: The font leading.

Examples

```
<setFontSize size="12"/>
```

(Extracted from file *tag-setFontSize.rml*, line 11) [PDF]

setNextFrame

Define the next frame to switch to.

Attributes

name *(required)* - StringOrInt
Name: The name or index of the next frame.

Examples

```
<setNextFrame name="three"/>
```

(Extracted from file *tag-setNextFrame.rml*, line 21) [PDF]

setNextTemplate

Define the next page template to use.

Attributes

name *(required)* - StringOrInt
Name: The name or index of the next page template.

Examples

```
<setNextTemplate name="first"/>
```

(Extracted from file *tag-setNextTemplate.rml*, line 25) [PDF]

showIndex

Creates an index in the document.

Attributes

name - String
Name: The name of the index.

dot - String
Dot: The character to use as a dot.

style - Style

Style: The paragraph style that is applied to the index.

tableStyle - Style
Table Style: The table style that is applied to the index layout.

Examples

```
<showIndex dot="."/>
```

(Extracted from file *tag-index.rml*, line 40) [PDF]

skew

Skew the drawing.

Attributes

alpha *(required)* - Measurement
Alpha: The amount to skew the drawing in the horizontal.

beta *(required)* - Measurement
Beta: The amount to skew the drawing in the vertical.

Examples

```
<skew alpha="15" beta="5"/>
```

(Extracted from file *tag-skew.rml*, line 13) [PDF]

slice

A slice in a pie chart.

Attributes

strokeWidth - Measurement
Stroke Width: The wodth of the slice line.

fillColor - Color
Fill Color: The fill color of the slice.

strokeColor - Color
Stroke Color: The color of the pointer line.

strokeDashArray - Sequence of Float
Stroke Dash Array: Teh dash array of the slice borderline.

popout - Measurement
Popout: The distance of how much the slice should be popped out.

fontName - String
Font Name: The font name of the label.

fontSize - Measurement
Font Size: The font size of the label.

labelRadius - Measurement
Label Radius: The radius at which the label should be placed around the pie.

swatchMarker - Symbol

Sub-Directives

label *(ZeroOrOne)*
pointer *(ZeroOrOne)*

Examples

```
<slice fillColor="cyan" popout="10" strokeWidth="2" strokeDashArray="2 2"/>
```

(Extracted from file *tag-pieChart.rml*, line 33) [PDF]

slice

A 3-D slice of a 3-D pie chart.

Attributes

strokeWidth - Measurement
Stroke Width: The wodth of the slice line.

fillColor - Color
Fill Color: The fill color of the slice.

strokeColor - Color
Stroke Color: The color of the pointer line.

strokeDashArray - Sequence of Float
Stroke Dash Array: Teh dash array of the slice borderline.

popout - Measurement
Popout: The distance of how much the slice should be popped out.

fontName - String
Font Name: The font name of the label.

fontSize - Measurement
Font Size: The font size of the label.

labelRadius - Measurement
Label Radius: The radius at which the label should be placed around the pie.

swatchMarker - Symbol

fillColorShaded - Color
Fill Color Shade: The shade used for the fill color.

Examples

```
<slice fillColor="cyan" popout="10" strokeWidth="2" strokeDashArray="2 2"/>
```

(Extracted from file *tag-pieChart3d.rml*, line 33) [PDF]

slices

The collection of all 3-D slice descriptions.

Attributes

strokeWidth - Measurement
Stroke Width: The wodth of the slice line.

fillColor - Color
Fill Color: The fill color of the slice.

strokeColor - Color
Stroke Color: The color of the pointer line.

strokeDashArray - Sequence of Float
Stroke Dash Array: Teh dash array of the slice borderline.

popout - Measurement
Popout: The distance of how much the slice should be popped out.

fontName - String
Font Name: The font name of the label.

fontSize - Measurement
Font Size: The font size of the label.

labelRadius - Measurement
Label Radius: The radius at which the label should be placed around the pie.

fillColorShaded - Color

Sub-Directives

slice *(OneOrMore)*

Examples

```
<slices strokeWidth="0.5">
  <slice fillColor="darkcyan"/>
  <slice fillColor="blueviolet"/>
  <slice fillColor="blue"/>
  <slice fillColor="cyan" popout="10" strokeWidth="2" strokeDashArray="2 2"/>
  <slice fillColor="aquamarine"/>
  <slice fillColor="cadetblue"/>
  <slice fillColor="lightcoral"/>
</slices>
```

(Extracted from file *tag-pieChart3d.rml*, line 27) [PDF]

slices

The collection of all 2-D slice descriptions.

Attributes

strokeWidth - Measurement
Stroke Width: The wodth of the slice line.

fillColor - Color
Fill Color: The fill color of the slice.

strokeColor - Color
Stroke Color: The color of the pointer line.

strokeDashArray - Sequence of Float
Stroke Dash Array: Teh dash array of the slice borderline.

popout - Measurement
Popout: The distance of how much the slice should be popped out.

fontName - String
Font Name: The font name of the label.

fontSize - Measurement
Font Size: The font size of the label.

labelRadius - Measurement
Label Radius: The radius at which the label should be placed around the pie.

Sub-Directives

slice *(OneOrMore)*

Examples

```
<slices strokeWidth="0.5">
  <slice fillColor="darkcyan"/>
  <slice fillColor="blueviolet"/>
  <slice fillColor="blue"/>
  <slice fillColor="cyan" popout="10" strokeWidth="2" strokeDashArray="2 2"/>
  <slice fillColor="aquamarine"/>
  <slice fillColor="cadetblue"/>
  <slice fillColor="lightcoral"/>
</slices>
```

(Extracted from file *tag-pieChart.rml*, line 27) [PDF]

spacer

Creates a vertical space in the flow.

Attributes

width - Measurement
Width: The width of the spacer. Currently not implemented.

length *(required)* - Measurement
Length: The height of the spacer.

Examples

```
<spacer length="0.5in" width="3in"/>
```

(Extracted from file *tag-spacer.rml*, line 26) [PDF]

spiderChart

A spider chart.

Attributes

dx - Measurement
Drawing X-Position: The x-position of the entire drawing on the canvas.

dy - Measurement
Drawing Y-Position: The y-position of the entire drawing on the canvas.

dwidth - Measurement
Drawing Width: The width of the entire drawing

dheight - Measurement
Drawing Height: The height of the entire drawing

angle - Float
Angle: The orientation of the drawing as an angle in degrees.

x - Measurement
Chart X-Position: The x-position of the chart within the drawing.

y - Measurement
Chart Y-Position: The y-position of the chart within the drawing.

width - Measurement
Chart Width: The width of the chart.

height - Measurement
Chart Height: The height of the chart.

strokeColor - Color
Stroke Color: Color of the chart border.

strokeWidth - Measurement
Stroke Width: Width of the chart border.

fillColor - Color
Fill Color: Color of the chart interior.

debug - Boolean
Debugging: A flag that when set to True turns on debug messages.

startAngle - Integer
Start Angle: The start angle in the chart of the first strand in degrees.

direction - Choice of ('clockwise', 'anticlockwise')
Direction: The direction in which the spider chart will be built.

Sub-Directives

data *(One)*
strands *(ZeroOrOne)*
strandLabels *(ZeroOrOne)*
spokes *(ZeroOrOne)*
spokeLabels *(ZeroOrOne)*
labels *(ZeroOrOne)*
texts *(ZeroOrOne)*

Examples

```
<spiderChart dx="2in" dy="7in" dwidth="6in" dheight="4in" x="0" y="0"
             width="3in" height="3in">
  <labels>
    <label>a</label>
    <label>b</label>
    <label>c</label>
    <label>d</label>
    <label>e</label>
    <label>f</label>
  </labels>
  <strands>
    <strand strokeColor="cornsilk" fillColor="cornsilk"/>
    <strand strokeColor="cyan" fillColor="cyan"/>
    <strand strokeColor="palegreen" fillColor="palegreen"/>
  </strands>
  <spokes strokeDashArray="2 2"/>
  <data>
    <series>12 14 16 14 12</series>
    <series>6 8 10 12 9 15</series>
    <series>7 8 17 4 12 8</series>
  </data>
</spiderChart>
```

(Extracted from file *tag-spiderChart.rml*, line 18) [PDF]

spoke

A spoke in the spider diagram.

Attributes

strokeWidth - Measurement
Stroke Width: The width of the spoke's line.

fillColor - Color
Fill Color: The fill color of the spoke's area.

strokeColor - Color
Stroke Color: The color of the spoke line.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array of the spoke line.

labelRadius - Measurement
Label Radius: The radius of the label arouns the spoke.

visible - Boolean
Visible: When true, the spoke line is drawn.

spokeLabels

A set of spoke labels.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

Sub-Directives

label *(OneOrMore)*

Examples

```
<spokeLabels fontName="Helvetica-Bold">
  <label>U</label>
  <label>V</label>
  <label>W</label>
  <label>X</label>
  <label>Y</label>
  <label>Z</label>
</spokeLabels>
```

(Extracted from file *tag-spiderChart.rml*, line 44) [PDF]

spokes

A collection of spokes.

Attributes

strokeWidth - Measurement
Stroke Width: The width of the spoke's line.

fillColor - Color
Fill Color: The fill color of the spoke's area.

strokeColor - Color
Stroke Color: The color of the spoke line.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array of the spoke line.

labelRadius - Measurement
Label Radius: The radius of the label arouns the spoke.

visible - Boolean
Visible: When true, the spoke line is drawn.

Sub-Directives

spoke *(OneOrMore)*

Examples

```
<spokes strokeDashArray="2 2"/>
```

(Extracted from file *tag-spiderChart.rml*, line 32) [PDF]

startIndex

Start a new index.

Attributes

name *(required)* - String
Name: The name of the index.

offset - Integer
Offset: The counting offset.

format - Choice of ('i', '123', 'abc')
Format: The format the index is going to use.

Examples

```
<startIndex/>
```

(Extracted from file *tag-index.rml*, line 8) [PDF]

story

The story of the PDF file.

Attributes

firstPageTemplate - Text
First Page Template: The first page template to be used.

Sub-Directives

spacer *(ZeroOrMore)*
illustration *(ZeroOrMore)*
pre *(ZeroOrMore)*
xpre *(ZeroOrMore)*
codesnippet *(ZeroOrMore)*
plugInFlowable *(ZeroOrMore)*
barCodeFlowable *(ZeroOrMore)*
outlineAdd *(ZeroOrMore)*

title *(ZeroOrMore)*
h1 *(ZeroOrMore)*
h2 *(ZeroOrMore)*
h3 *(ZeroOrMore)*
h4 *(ZeroOrMore)*
h5 *(ZeroOrMore)*
h6 *(ZeroOrMore)*
para *(ZeroOrMore)*
blockTable *(ZeroOrMore)*
nextFrame *(ZeroOrMore)*
setNextFrame *(ZeroOrMore)*
nextPage *(ZeroOrMore)*
setNextTemplate *(ZeroOrMore)*
condPageBreak *(ZeroOrMore)*
keepInFrame *(ZeroOrMore)*
keepTogether *(ZeroOrMore)*
img *(ZeroOrMore)*
imageAndFlowables *(ZeroOrMore)*
pto *(ZeroOrMore)*
indent *(ZeroOrMore)*
fixedSize *(ZeroOrMore)*
bookmarkPage *(ZeroOrMore)*
bookmark *(ZeroOrMore)*
link *(ZeroOrMore)*
hr *(ZeroOrMore)*
showIndex *(ZeroOrMore)*
name *(ZeroOrMore)*
namedString *(ZeroOrMore)*
log *(ZeroOrMore)*
debug *(ZeroOrMore)*
info *(ZeroOrMore)*
warning *(ZeroOrMore)*
error *(ZeroOrMore)*
critical *(ZeroOrMore)*
docAssign *(ZeroOrMore)*
docExec *(ZeroOrMore)*
docPara *(ZeroOrMore)*
docIf *(ZeroOrMore)*
docElse *(ZeroOrMore)*
docWhile *(ZeroOrMore)*
ol *(ZeroOrMore)*
ul *(ZeroOrMore)*
includePdfPages *(ZeroOrMore)*
storyPlace *(ZeroOrMore)*

Examples

```
<story>
  <para style="large">Hello <b>World</b>!</para>
</story>
```

(Extracted from file *simple-layout.rml*, line 35) [PDF]

storyPlace

Draws a set of flowables on the canvas within a given region.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the place.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the place.

width - Measurement
Width: The width of the place.

height - Measurement
Height: The height of the place.

origin - Choice of ('frame', 'local', 'page')
Origin: The origin of the coordinate system for the story.

Examples

```
<storyPlace x="1cm" y="0cm" width="10cm" height="1cm" origin="page">
  <para>This is at the bottom of the page</para>
</storyPlace>
```

(Extracted from file *tag-storyPlace.rml*, line 16) [PDF]

strand

A strand in the spider diagram

Attributes

strokeWidth - Measurement
Stroke Width: The line width of the strand.

fillColor - Color
Fill Color: The fill color of the strand area.

strokeColor - Color
Stroke Color: The color of the strand line.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array of the strand line.

symbol - Symbol
Symbol: The symbol to use to mark the strand.

symbolSize - Measurement
Symbol Size: The size of the strand symbol.

name - Text
Name: The name of the strand.

Examples

```
<strand strokeColor="cornsilk" fillColor="cornsilk"/>
```

(Extracted from file *tag-spiderChart.rml*, line 28) [PDF]

strandLabels

A set of strand labels.

Attributes

dx - Measurement
Horizontal Extension: The width of the label.

dy - Measurement
Vertical Extension: The height of the label.

angle - Float
Angle: The angle to rotate the label.

boxAnchor - Choice of ('c', 'e', 'sw', 'ne', 'n', 's', 'w', 'autox', 'autoy', 'se', 'nw')
Box Anchor: The position relative to the label.

boxStrokeColor - Color
Box Stroke Color: The color of the box border line.

boxStrokeWidth - Measurement
Box Stroke Width: The width of the box border line.

boxFillColor - Color
Box Fill Color: The color in which the box is filled.

boxTarget - Text
Box Target: The box target.

fillColor - Color
Fill Color: The color in which the label is filled.

strokeColor - Color
Stroke Color: The color of the label.

strokeWidth - Measurement
Stroke Width: The width of the label line.

fontName - String
Font Name: The font used to print the value.

fontSize - Measurement
Font Size: The size of the value text.

leading - Measurement
Leading: The height of a single text line. It includes character height.

width - Measurement
Width: The width the label.

maxWidth - Measurement
Maximum Width: The maximum width the label.

height - Measurement
Height: The height the label.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

visible - Boolean
Visible: A flag making the label text visible.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

row - Integer
Row: The row of the strand label

col - Integer
Column: The column of the strand label.

format - String
Format: The format string for the label.

Content

TextNode
Text: The label text of the strand.

Sub-Directives

label *(OneOrMore)*

Examples

```
<strandLabels dR="-5" format="values">
  <label row="0" col="3" dx="-10">special</label>
  <label row="0" col="1" dy="5">one</label>
```

```
  <label row="0" col="0" dy="5">zero</label>
  <label row="1" col="0" dy="10">Earth</label>
  <label row="2" col="2" dx="10">Mars</label>
</strandLabels>
```

(Extracted from file *tag-spiderChart.rml*, line 59) [PDF]

strands

A collection of strands.

Attributes

strokeWidth - Measurement
Stroke Width: The line width of the strand.

fillColor - Color
Fill Color: The fill color of the strand area.

strokeColor - Color
Stroke Color: The color of the strand line.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array of the strand line.

symbol - Symbol
Symbol: The symbol to use to mark the strand.

symbolSize - Measurement
Symbol Size: The size of the strand symbol.

name - Text
Name: The name of the strand.

Sub-Directives

strand *(OneOrMore)*

Examples

```
<strands>
  <strand strokeColor="cornsilk" fillColor="cornsilk"/>
  <strand strokeColor="cyan" fillColor="cyan"/>
  <strand strokeColor="palegreen" fillColor="palegreen"/>
</strands>
```

(Extracted from file *tag-spiderChart.rml*, line 27) [PDF]

stroke

Set the stroke/line color.

Attributes

color *(required)* - Color
Color: The color value to be set.

Examples

```
<stroke color="red"/>
```

(Extracted from file *tag-stroke.rml*, line 8) [PDF]

stylesheet

A styleheet defines the styles that can be used in the document.

Sub-Directives

initialize *(ZeroOrOne)*
paraStyle *(ZeroOrMore)*
blockTableStyle *(ZeroOrMore)*

listStyle *(ZeroOrMore)*

Examples

```
<stylesheet>
  <paraStyle name="large" fontSize="3cm" textColor="red"/>
</stylesheet>
```

(Extracted from file *simple-layout.rml*, line 8) [PDF]

td

A table cell within a table.

Attributes

fontName - String
Font Name: The name of the font for the cell.

fontSize - Measurement
Font Size: The font size for the text of the cell.

leading - Measurement
Leading: The height of a single text line. It includes character height.

fontColor - Color
Font Color: The color in which the text will appear.

leftPadding - Measurement
Left Padding: The size of the padding on the left side.

rightPadding - Measurement
Right Padding: The size of the padding on the right side.

topPadding - Measurement
Top Padding: The size of the padding on the top.

bottomPadding - Measurement
Bottom Padding: The size of the padding on the bottom.

background - Color
Background Color: The color to use as the background for the cell.

align - Choice of ('left', 'decimal', 'right', 'center', 'centre')
Text Alignment: The text alignment within the cell.

vAlign - Choice of ('middle', 'top', 'bottom')
Vertical Alignment: The vertical alignment of the text within the cell.

lineBelowThickness - Measurement
Line Below Thickness: The thickness of the line below the cell.

lineBelowColor - Color
Line Below Color: The color of the line below the cell.

lineBelowCap - Choice of ('default', 'square', 'round', 'butt')
Line Below Cap: The cap at the end of the line below the cell.

lineBelowCount - Integer
Line Below Count: Describes whether the line below is a single (1) or double (2) line.

lineBelowSpace - Measurement
Line Below Space: The space of the line below the cell.

lineAboveThickness - Measurement
Line Above Thickness: The thickness of the line above the cell.

lineAboveColor - Color
Line Above Color: The color of the line above the cell.

lineAboveCap - Choice of ('default', 'square', 'round', 'butt')
Line Above Cap: The cap at the end of the line above the cell.

lineAboveCount - Integer

Line Above Count: Describes whether the line above is a single (1) or double (2) line.

lineAboveSpace - Measurement
Line Above Space: The space of the line above the cell.

lineLeftThickness - Measurement
Left Line Thickness: The thickness of the line left of the cell.

lineLeftColor - Color
Left Line Color: The color of the line left of the cell.

lineLeftCap - Choice of ('default', 'square', 'round', 'butt')
Line Left Cap: The cap at the end of the line left of the cell.

lineLeftCount - Integer
Line Left Count: Describes whether the left line is a single (1) or double (2) line.

lineLeftSpace - Measurement
Line Left Space: The space of the line left of the cell.

lineRightThickness - Measurement
Right Line Thickness: The thickness of the line right of the cell.

lineRightColor - Color
Right Line Color: The color of the line right of the cell.

lineRightCap - Choice of ('default', 'square', 'round', 'butt')
Line Right Cap: The cap at the end of the line right of the cell.

lineRightCount - Integer
Line Right Count: Describes whether the right line is a single (1) or double (2) line.

lineRightSpace - Measurement
Line Right Space: The space of the line right of the cell.

href - Text
Link URL: When specified, the cell becomes a link to that URL.

destination - Text
Link Destination: When specified, the cell becomes a link to that destination.

Content

RawXMLContent *(required)*
Content: The content of the cell; can be text or any flowable.

Examples

```
<td>This</td>
```

(Extracted from file *tag-blockTable-1.rml*, line 19) [PDF]

template

Define a page template.

Attributes

pagesize - PageSize
Page Size: The Page Size.

rotation - Integer
Rotation: The rotation of the page in multiples of 90 degrees.

leftMargin - Measurement
Left Margin: The left margin of the template.

rightMargin - Measurement
Right Margin: The right margin of the template.

topMargin - Measurement
Top Margin: The top margin of the template.

bottomMargin - Measurement

Bottom Margin: The bottom margin of the template.

showBoundary - Boolean
Show Boundary: A flag to show the boundary of the template.

allowSplitting - Boolean
Allow Splitting: A flag to allow splitting over multiple templates.

title - Text
Title: The title of the PDF document.

author - Text
Author: The author of the PDF document.

Sub-Directives

pageTemplate *(OneOrMore)*

Examples

```
<template>
  <pageTemplate id="main">
    <frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
  </pageTemplate>
</template>
```

(Extracted from file *tag-document-story.rml*, line 8) [PDF]

```
<template>
  <pageTemplate id="main">
    <frame id="first" x1="1cm" y1="1cm" width="19cm" height="26cm"/>
  </pageTemplate>
</template>
```

(Extracted from file *tag-document-annotations.rml*, line 12) [PDF]

text

Draw a text on the chart.

Attributes

x *(required)* - Measurement
X-Coordinate: The X-coordinate of the lower-left position of the text.

y *(required)* - Measurement
Y-Coordinate: The Y-coordinate of the lower-left position of the text.

angle - Float
Rotation Angle: The angle about which the text will be rotated.

fontName - String
Font Name: The name of the font.

fontSize - Measurement
Font Size: The font size for the text.

fillColor - Color
Fill Color: The color in which the text will appear.

textAnchor - Choice of ('start', 'boxauto', 'end', 'middle')
Text Anchor: The position in the text to which the coordinates refer.

Content

TextNode *(required)*
Text: The text to be printed.

Examples

```
<text x="2.5in" y="-0.5in" textAnchor="middle" fontName="Helvetica-Bold"
      fontSize="13" fillColor="black">
```

```
  X-Axis Label
</text>
```

(Extracted from file *tag-linePlot.rml*, line 67) [PDF]

textAnnotation

Writes a low-level text annotation into the PDF.

Attributes

contents *(required)* - FirstLevelTextNode
Contents: The PDF commands that are inserted as annotation.

Sub-Directives

param *(ZeroOrMore)*

Examples

```
<textAnnotation>
  <param name="Rect">0,0,1,1</param>
  <param name="F">3</param>
  <param name="escape">6</param>
X::PDF
PX(S)
MT(PINK)
</textAnnotation>
```

(Extracted from file *tag-textAnnotation.rml*, line 8) [PDF]

textField

A text field within the PDF

Attributes

title *(required)* - Text
Title: The title of the field.

x *(required)* - Measurement
X-Position: The x-position of the lower-left corner of the field.

y *(required)* - Measurement
Y-Position: The y-position of the lower-left corner of the field.

width *(required)* - Measurement
Width: The width of the text field.

height *(required)* - Measurement
Height: The height of the text field.

value - Text
Value: The default text value of the field.

maxLength - Integer
Maximum Length: The maximum amount of characters allowed in the field.

multiline - Boolean
Multiline: A flag when set allows multiple lines within the field.

Examples

```
<textField title="input1" x="3.5cm" y="22.9cm" width="5cm" height="14"/>
```

(Extracted from file *tag-textField.rml*, line 19) [PDF]

```
<textField title="input2" value="Default Value" x="3.5cm" y="18.4cm"
           width="5cm" height="3cm" multiline="yes" maxLength="30"/>
```

(Extracted from file *tag-textField.rml*, line 28) [PDF]

texts

A set of texts drawn on the chart.

Sub-Directives

text *(ZeroOrMore)*

Examples

```
<texts>
  <text x="2.5in" y="-0.5in" textAnchor="middle" fontName="Helvetica-Bold"
        fontSize="13" fillColor="black">
    X-Axis Label
  </text>
  <text x="1.5in" y="0.3in" angle="90" textAnchor="middle"
        fontName="Helvetica-Bold" fontSize="13" fillColor="red">
    Y-Axis Label
  </text>
</texts>
```

(Extracted from file *tag-linePlot.rml*, line 64) [PDF]

title

The title is a simple paragraph with a special title style.

Attributes

fontName - String
Font Name: The name of the font for the paragraph.

fontSize - Measurement
Font Size: The font size for the text of the paragraph.

leading - Measurement
Leading: The height of a single paragraph line. It includes character height.

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

firstLineIndent - Measurement
First Line Indentation: The indentation of the first line in the paragraph.

alignment - Choice of ('left', 'right', 'center', 'centre', 'justify')
Alignment: The text alignment.

spaceBefore - Measurement
Space Before: The vertical space before the paragraph.

spaceAfter - Measurement
Space After: The vertical space after the paragraph.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletIndent - Measurement
Bullet Indentation: The indentation that is kept for a bullet point.

textColor - Color
Text Color: The color in which the text will appear.

backColor - Color
Background Color: The background color of the paragraph.

wordWrap - String
Word Wrap Method: When set to "CJK", invoke CJK word wrapping

borderWidth - Measurement
Paragraph Border Width: The width of the paragraph border.

borderPadding - Padding
Paragraph Border Padding: Padding of the paragraph.

borderColor - Color
Border Color: The color in which the paragraph border will appear.

borderRadius - Measurement
Paragraph Border Radius: The radius of the paragraph border.

allowWidows - Boolean
Allow Widows: Allow widows.

allowOrphans - Boolean
Allow Orphans: Allow orphans.

textTransforms - Choice of ('uppercase', 'lowercase')
Text Transforms: Text transformations.

endDots - String
End Dots: Characters/Dots at the end of a paragraph.

keepWithNext - Boolean
Keep with Next: When set, this paragraph will always be in the same frame as the following flowable.

pageBreakBefore - Boolean
Page Break Before: Specifies whether a page break should be inserted before the directive.

frameBreakBefore - Boolean
Frame Break Before: Specifies whether a frame break should be inserted before the directive.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

Content

XMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<title>Crop Marks Demo</title>
```

(Extracted from file *tag-cropMarks.rml*, line 20) [PDF]

```
<title>Title</title>
```

(Extracted from file *tag-para.rml*, line 20) [PDF]

tr

A table row in the block table.

Sub-Directives

td *(OneOrMore)*

Examples

```
<tr>
 <td>This</td>
 <td>is</td>
</tr>
```

(Extracted from file *tag-blockTable-1.rml*, line 18) [PDF]

transform
A full 2-D matrix transformation

Content

TextNodeSequence of Float *(required)*
Matrix: The transformation matrix.

Examples

```
<transform>
   1.0  0.3
  -0.2  1.1
  10.1 15.0
</transform>
```

(Extracted from file *tag-transform.rml*, line 13) [PDF]

translate
Translate the drawing coordinates by the specified x and y offset.

Attributes

dx *(required)* - Measurement
X-Offset: The amount to move the drawing to the right.

dy *(required)* - Measurement
Y-Offset: The amount to move the drawing upward.

Examples

```
<translate dx="1in" dy="0"/>
```

(Extracted from file *tag-translate.rml*, line 13) [PDF]

ul
And unordered list.

Attributes

leftIndent - Measurement
Left Indentation: General indentation on the left side.

rightIndent - Measurement
Right Indentation: General indentation on the right side.

bulletColor - Color
Bullet Color: The color in which the bullet will appear.

bulletFontName - String
Bullet Font Name: The font in which the bullet character will be rendered.

bulletFontSize - Measurement
Bullet Font Size: The font size of the bullet character.

bulletOffsetY - Measurement
Bullet Y-Offset: The vertical offset of the bullet.

bulletDedent - StringOrInt
Bullet Dedent: Either pixels of dedent or auto (default).

bulletDir - Choice of ('ltr', 'rtl')
Bullet Layout Direction: The layout direction of the bullet.

bulletFormat - String
Bullet Format: A formatting expression for the bullet text.

bulletType - Choice of ('A', 'a', 'square', 'bullet', 'rarrowhead', 'I', 'diamond', 'l', 'O', 'L', '1', 'i', 'R', 'o', 'circle', 'r', 'disc', 'bulletchar')
Bullet Type: The type of number to display.

start - Combination of Integer, Choice of ('square', 'bullet', 'diamond', 'rarrowhead', 'disc', 'circle', 'bulletchar'), String
Start Value: The counter start value.

style - Style
Style: The list style that is applied to the list.

value - Choice of ('square', 'bullet', 'diamond', 'rarrowhead', 'disc', 'circle', 'bulletchar')
Bullet Value: The type of bullet character.

Sub-Directives

li *(ZeroOrMore)*

Examples

```
<ul bulletColor="red" bulletFontName="Times-Roman" bulletFontSize="8"
    rightIndent="10" bulletOffsetY="-1">
  <li value="disc" bulletFontName="Helvetica">
    <para>unordered 1</para>
  </li>
  <li value="square" bulletColor="blue">
    <para>unordered 2</para>
  </li>
  <li value="diamond" bulletColor="green">
    <para>unordered 3</para>
  </li>
  <li value="rarrowhead" bulletColor="yellow">
    <para>unordered 4</para>
  </li>
</ul>
```

(Extracted from file *tag-ul-ol-li.rml*, line 65) [PDF]

valueAxis

Attributes

visible - Boolean
Visible: When true, draw the entire axis with all details.

visibleAxis - Boolean
Visible Axis: When true, draw the axis line.

visibleTicks - Boolean
Visible Ticks: When true, draw the axis ticks on the line.

visibleLabels - Boolean
Visible Labels: When true, draw the axis labels.

visibleGrid - Boolean
Visible Grid: When true, draw the grid lines for the axis.

strokeWidth - Measurement
Stroke Width: The width of axis line and ticks.

strokeColor - Color
Stroke Color: The color in which the axis line and ticks are drawn.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array that is used for the axis line and ticks.

gridStrokeWidth - Measurement
Grid Stroke Width: The width of the grid lines.

gridStrokeColor - Color
Grid Stroke Color: The color in which the grid lines are drawn.

gridStrokeDashArray - Sequence of Float
Grid Stroke Dash Array: The dash array that is used for the grid lines.

gridStart - Measurement
Grid Start: The start of the grid lines with respect to the axis origin.

gridEnd - Measurement
Grid End: The end of the grid lines with respect to the axis origin.

style - Choice of ('stacked', 'parallel', 'parallel_3d')
Style: The plot style of the common categories.

forceZero - Boolean
Force Zero: When set, the range will contain the origin.

minimumTickSpacing - Measurement
Minimum Tick Spacing: The minimum distance between ticks.

maximumTicks - Integer
Maximum Ticks: The maximum number of ticks to be shown.

labelTextFormat - String
Label Text Format: Formatting string for axis labels.

labelTextPostFormat - Text
Label Text Post Format: An additional formatting string.

labelTextScale - Float
Label Text Scale: The sclaing factor for the label tick values.

valueMin - Float
Minimum Value: The smallest value on the axis.

valueMax - Float
Maximum Value: The largest value on the axis.

valueStep - Float
Value Step: The step size between ticks

valueSteps - Sequence of Float
Step Sizes: List of step sizes between ticks.

rangeRound - Choice of ('both', 'none', 'ceiling', 'floor')
Range Round: Method to be used to round the range values.

zrangePref - Float
Zero Range Preference: Zero range axis limit preference.

Examples

```
<valueAxis valueMin="0" valueMax="150" valueStep="30" visibleTicks="true"
           visibleLabels="true">
  <labels fontName="Helvetica"/>
</valueAxis>
```

(Extracted from file *tag-barChart.rml*, line 38) [PDF]

warning

Log message at WARNING level.

Content

RawXMLContent *(required)*
Message: The message to be logged.

Examples

```
<warning>A WARNING message</warning>
```

(Extracted from file *tag-log.rml*, line 35) [PDF]

xValueAxis

X-Value Axis

Attributes

visible - Boolean
Visible: When true, draw the entire axis with all details.

visibleAxis - Boolean
Visible Axis: When true, draw the axis line.

visibleTicks - Boolean
Visible Ticks: When true, draw the axis ticks on the line.

visibleLabels - Boolean
Visible Labels: When true, draw the axis labels.

visibleGrid - Boolean
Visible Grid: When true, draw the grid lines for the axis.

strokeWidth - Measurement
Stroke Width: The width of axis line and ticks.

strokeColor - Color
Stroke Color: The color in which the axis line and ticks are drawn.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array that is used for the axis line and ticks.

gridStrokeWidth - Measurement
Grid Stroke Width: The width of the grid lines.

gridStrokeColor - Color
Grid Stroke Color: The color in which the grid lines are drawn.

gridStrokeDashArray - Sequence of Float
Grid Stroke Dash Array: The dash array that is used for the grid lines.

gridStart - Measurement
Grid Start: The start of the grid lines with respect to the axis origin.

gridEnd - Measurement
Grid End: The end of the grid lines with respect to the axis origin.

style - Choice of ('stacked', 'parallel', 'parallel_3d')
Style: The plot style of the common categories.

forceZero - Boolean
Force Zero: When set, the range will contain the origin.

minimumTickSpacing - Measurement
Minimum Tick Spacing: The minimum distance between ticks.

maximumTicks - Integer
Maximum Ticks: The maximum number of ticks to be shown.

labelTextFormat - String
Label Text Format: Formatting string for axis labels.

labelTextPostFormat - Text
Label Text Post Format: An additional formatting string.

labelTextScale - Float
Label Text Scale: The sclaing factor for the label tick values.

valueMin - Float
Minimum Value: The smallest value on the axis.

valueMax - Float
Maximum Value: The largest value on the axis.

valueStep - Float
Value Step: The step size between ticks

valueSteps - Sequence of Float
Step Sizes: List of step sizes between ticks.

rangeRound - Choice of ('both', 'none', 'ceiling', 'floor')

Range Round: Method to be used to round the range values.

zrangePref - Float
Zero Range Preference: Zero range axis limit preference.

tickUp - Measurement
Tick Up: Length of tick above the axis line.

tickDown - Measurement
Tick Down: Length of tick below the axis line.

joinAxis - Boolean
Join Axis: Whether to join the axes.

joinAxisMode - Choice of ('top', 'points', 'none', 'value', 'bottom')
Join Axis Mode: Mode for connecting axes.

joinAxisPos - Measurement
Join Axis Position: The position in the plot at which to join the axes.

Examples

```
<xValueAxis valueMin="0" valueMax="5" valueStep="1">
  <labels fontName="Helvetica"/>
</xValueAxis>
```

(Extracted from file *tag-linePlot.rml*, line 25) [PDF]

xpre

A preformatted text that allows paragraph markup.

Attributes

bulletText - String
Bullet Character: The bullet character is the ASCII representation of the symbol making up the bullet in a listing.

dedent - Integer
Dedent: Number of characters to be removed in front of every line of the text.

style - Style
Style: The paragraph style that is applied to the paragraph. See the ``paraStyle`` tag for creating a paragraph style.

Content

RawXMLContent *(required)*
Text: The text that will be layed out.

Examples

```
<xpre>Preformatted with <i>markup</i>.</xpre>
```

(Extracted from file *tag-para.rml*, line 29) [PDF]

yValueAxis

Y-Value Axis

Attributes

visible - Boolean
Visible: When true, draw the entire axis with all details.

visibleAxis - Boolean
Visible Axis: When true, draw the axis line.

visibleTicks - Boolean
Visible Ticks: When true, draw the axis ticks on the line.

visibleLabels - Boolean
Visible Labels: When true, draw the axis labels.

visibleGrid - Boolean

Visible Grid: When true, draw the grid lines for the axis.

strokeWidth - Measurement
Stroke Width: The width of axis line and ticks.

strokeColor - Color
Stroke Color: The color in which the axis line and ticks are drawn.

strokeDashArray - Sequence of Float
Stroke Dash Array: The dash array that is used for the axis line and ticks.

gridStrokeWidth - Measurement
Grid Stroke Width: The width of the grid lines.

gridStrokeColor - Color
Grid Stroke Color: The color in which the grid lines are drawn.

gridStrokeDashArray - Sequence of Float
Grid Stroke Dash Array: The dash array that is used for the grid lines.

gridStart - Measurement
Grid Start: The start of the grid lines with respect to the axis origin.

gridEnd - Measurement
Grid End: The end of the grid lines with respect to the axis origin.

style - Choice of ('stacked', 'parallel', 'parallel_3d')
Style: The plot style of the common categories.

forceZero - Boolean
Force Zero: When set, the range will contain the origin.

minimumTickSpacing - Measurement
Minimum Tick Spacing: The minimum distance between ticks.

maximumTicks - Integer
Maximum Ticks: The maximum number of ticks to be shown.

labelTextFormat - String
Label Text Format: Formatting string for axis labels.

labelTextPostFormat - Text
Label Text Post Format: An additional formatting string.

labelTextScale - Float
Label Text Scale: The sclaing factor for the label tick values.

valueMin - Float
Minimum Value: The smallest value on the axis.

valueMax - Float
Maximum Value: The largest value on the axis.

valueStep - Float
Value Step: The step size between ticks

valueSteps - Sequence of Float
Step Sizes: List of step sizes between ticks.

rangeRound - Choice of ('both', 'none', 'ceiling', 'floor')
Range Round: Method to be used to round the range values.

zrangePref - Float
Zero Range Preference: Zero range axis limit preference.

tickLeft - Measurement
Tick Left: Length of tick left to the axis line.

tickRight - Measurement
Tick Right: Length of tick right to the axis line.

joinAxis - Boolean
Join Axis: Whether to join the axes.

joinAxisMode - Choice of ('top', 'points', 'none', 'value', 'bottom')

Join Axis Mode: Mode for connecting axes.

joinAxisPos - Measurement
Join Axis Position: The position in the plot at which to join the axes.

Examples

```
<yValueAxis valueMin="0" valueMax="7" valueStep="1">
  <labels fontName="Helvetica"/>
</yValueAxis>
```

(Extracted from file *tag-linePlot.rml*, line 28) [PDF]