



Genero®
report writer

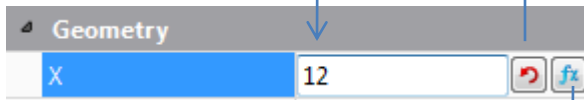
FORMATTING REPORT OBJECTS AND THE REPORT LAYOUT

Using Genero Report Writer
GRS 3.00

At the end of this instruction, you will be able to:

- Position report objects on a report
- Identify object properties that are common to all objects
- Provide, edit, and reset property values

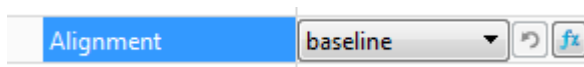
Enter into text field Reset to default value



Launch the Expression Editor



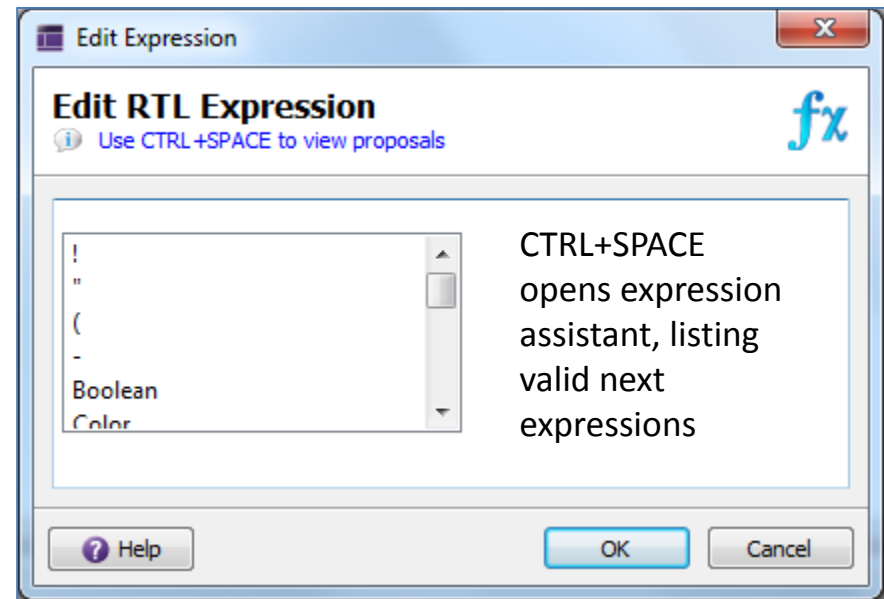
Use widget to find value



Select from combobox



Check for TRUE, Uncheck for FALSE



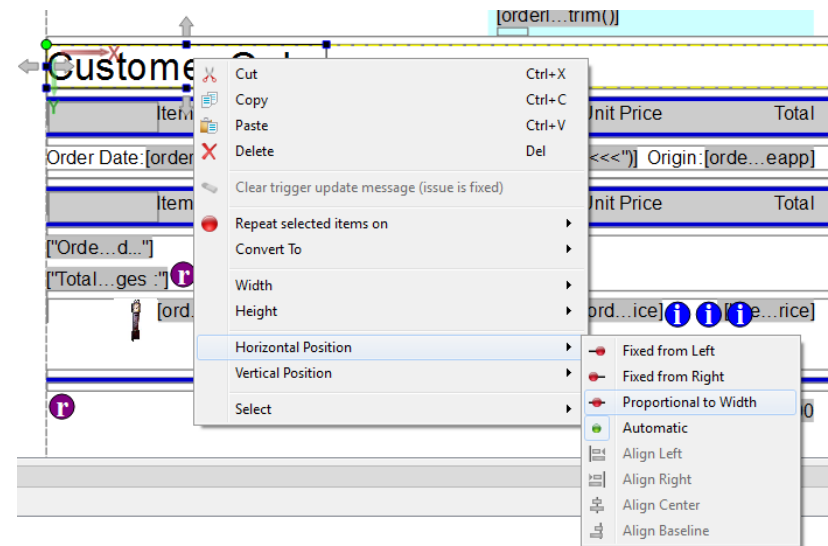
- How do I position something so that it is...
 - In the center of its parent

Geometry	
X	max/2
Y	max/2
X-Size	
Y-Size	
Anchor X	0,5
Anchor Y	0,5

- In the bottom right of its parent

Geometry	
X	max
Y	max
X-Size	
Y-Size	
Anchor X	1
Anchor Y	1

TIP: Contextual menu lets you solidify the position by setting X and Y coordinates

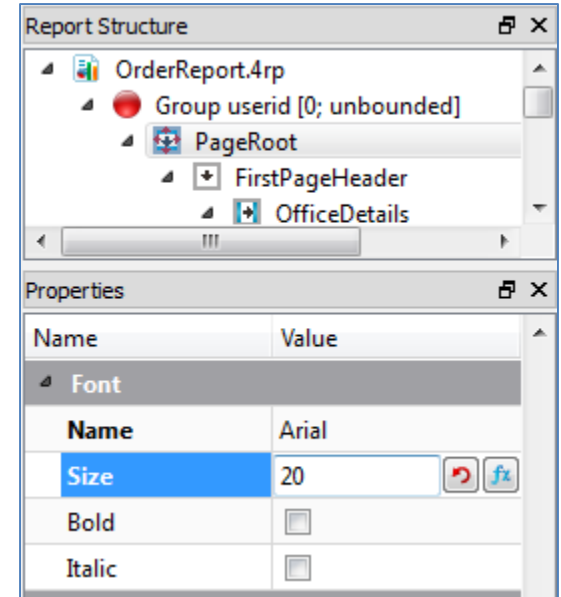


- An object's absolute position can be measured in three ways
 - From the top
 - 2cm
 - From the bottom
 - max-3cm
 - Relative to height
 - max*0.4
- Which method you choose depends where you want the object to be positioned when the parent is resized

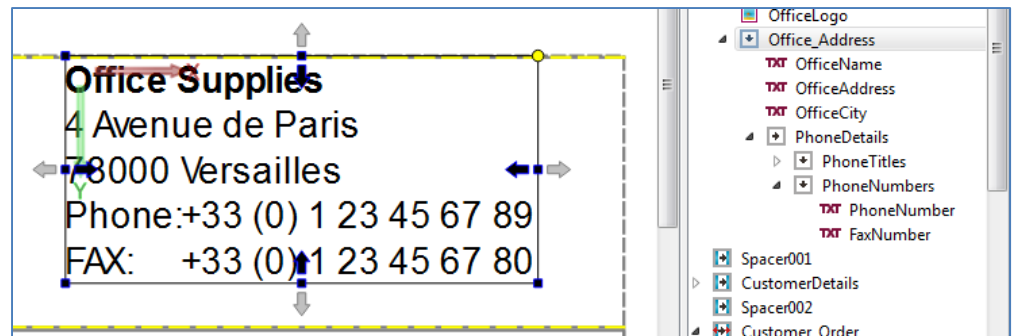
Note:

This discussion assumes the layout is top-to-bottom and the height of the parent object is 5 cm.

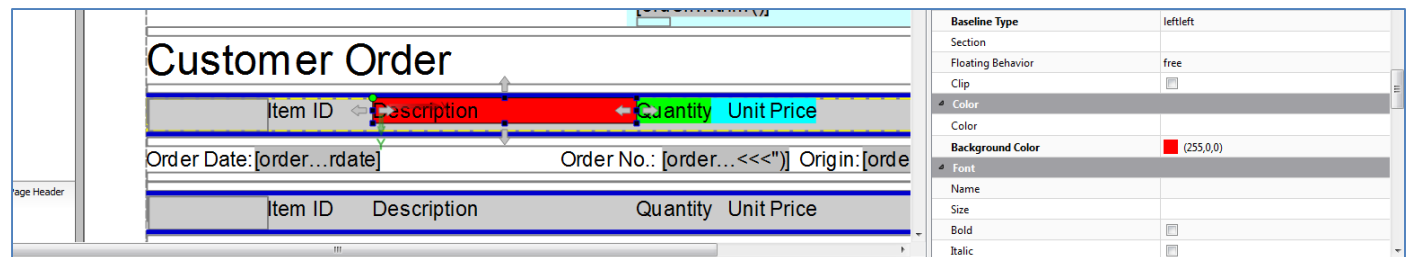
- Properties can be inherited from the parent object
 - Define some properties on the PageRoot node
 - These will then default for the whole report
 - e.g. font, font-size
 - Define the font on the page root and then all objects on the report will use this font unless explicitly stated otherwise



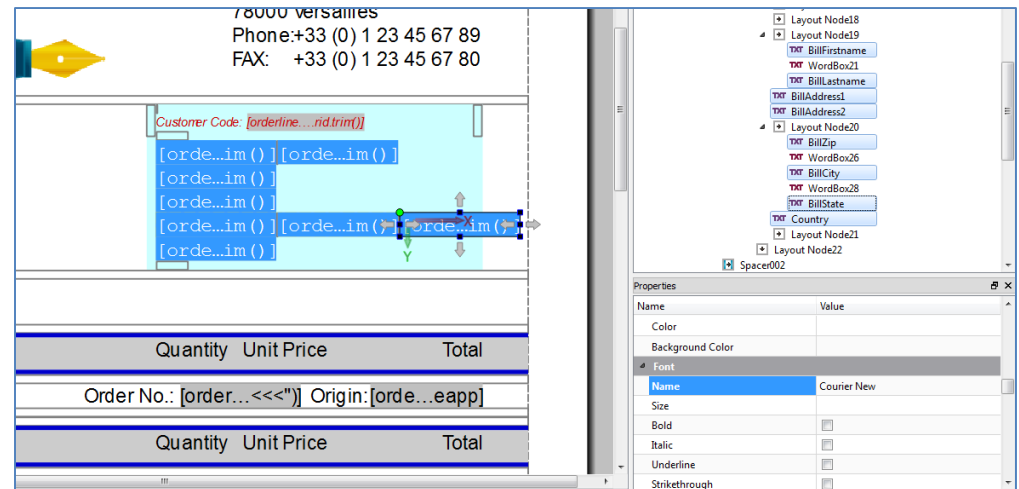
- If possible, group objects together within one parent
 - You can use inheritance and define the property once on the parent
 - Positions will be relative to parent. Drag the parent to move all the child objects
 - Usage example



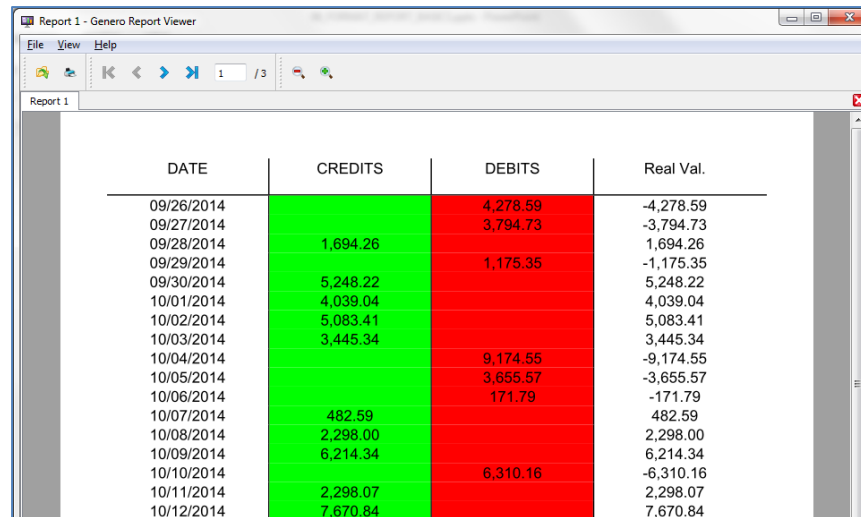
- To determine which object is which or to better view the space the object uses
 - Give it a background color
 - Give the other report objects different background colors
- Can be helpful in debugging
 - Remember to remove before going live



- Ctrl-Select the objects
 - The objects must have the property you wish to change in common
- Change the property value once
 - Changes for all objects

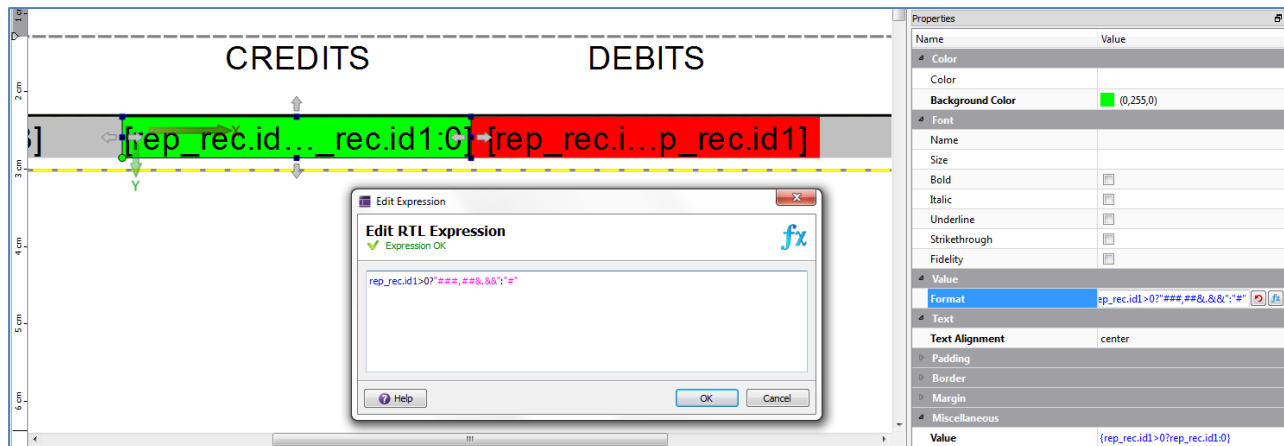


- Debits and Credits problem characterized by
 - Two adjacent columns to display the same variable
 - Display positive values in first column, leave second column blank
 - Display negative values in second column as positive, leave first column blank



DATE	CREDITS	DEBITS	Real Val.
09/26/2014		4,278.59	-4,278.59
09/27/2014		3,794.73	-3,794.73
09/28/2014	1,694.26		1,694.26
09/29/2014		1,175.35	-1,175.35
09/30/2014	5,248.22		5,248.22
10/01/2014	4,039.04		4,039.04
10/02/2014	5,083.41		5,083.41
10/03/2014	3,445.34		3,445.34
10/04/2014		9,174.55	-9,174.55
10/05/2014		3,655.57	-3,655.57
10/06/2014		171.79	-171.79
10/07/2014	482.59		482.59
10/08/2014	2,298.00		2,298.00
10/09/2014	6,214.34		6,214.34
10/10/2014		6,310.16	-6,310.16
10/11/2014	2,298.07		2,298.07
10/12/2014	7,670.84		7,670.84

- Use expressions for **format** and **value** properties
 - Column 1: value=rec.value>0?rec.value:0
 - Column 1: format = rec.value>0?"###,##&.&&":"##"
 - Column 2: value = rec.value<0?-1*rec.value:0
 - Column 2: format = rec.value<0?"###,##&.&&":"##"

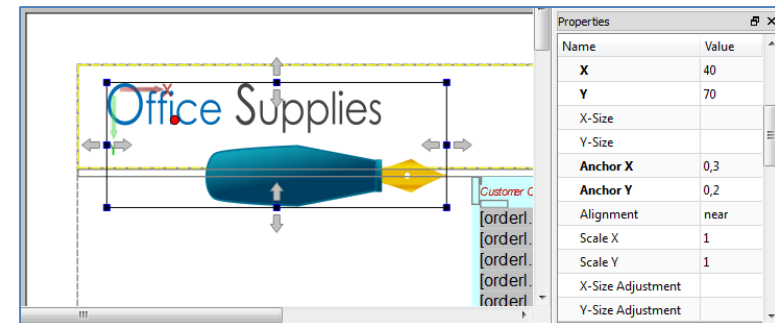


- Name
 - Unique identifier
 - Cannot be an expression
- Type
 - The type of object (e.g. WordBox)
 - Cannot be an expression
 - Select ‘Convert To’ to modify the type
- Visibility Condition
 - Boolean that indicates if object is printed
- Class
 - Specify one or more classes for an object
 - Predefined classes with prefix ‘grw’

Object	
Name	Country
Type	WordBox
Visibility Condition	
Class	

- X,Y
 - Position of attachment point relative to parent object
- X-Size, Y-Size
 - Height, width of object
- Anchor X,Y
 - Position of attachment point within object
 - (0,0) = top-left corner
 - (0.5, 0.5) = center
 - (1,1) = bottom-right corner

Geometry	
X	0
Y	max-1cm
X-Size	3cm
Y-Size	min
Anchor X	0,5
Anchor Y	1
Alignment	baseline
Scale X	1
Scale Y	1
X-Size Adjustment	expandToParent
Y-Size Adjustment	

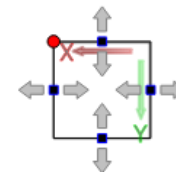
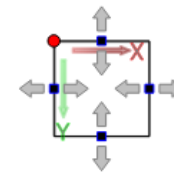
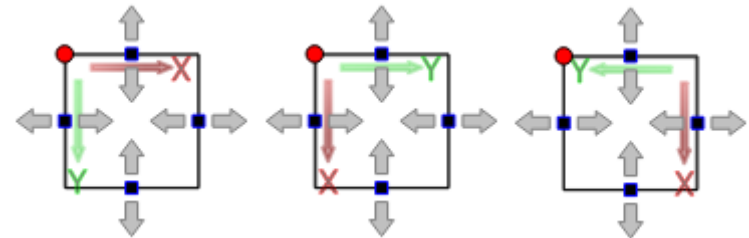


- Alignment
 - what end of parent object do we position object from
 - near, center, far, baseline
- Scale X/Y
 - Stretch or shrink object using specified ratio
- X/Y-Size Adjustment
 - Override X-Size and Y-Size and size object relative to children or parent objects
 - shrinkToChildren
 - expandToParent

Geometry	
X	0
Y	max-1cm
X-Size	3cm
Y-Size	min
Anchor X	0,5
Anchor Y	1
Alignment	baseline
Scale X	1
Scale Y	1
X-Size Adjustment	expandToParent
Y-Size Adjustment	

- **LayoutDirection**
 - The direction of the Y axis
 - When child objects added, they are added in the direction of the Y-axis
 - Various values can mean the same thing
- **SwapX**
 - By default X-axis 90 degrees anti-clockwise of Y-axis
 - SwapX sets X-axis 90 degrees clockwise of Y-axis

Orientation	
Layout Direction	topToBottom
Swap X	<input type="checkbox"/>
Transform transparently	<input type="checkbox"/>



- Transform transparently
 - For rotation purposes

Orientation	
Layout Direction	topToBottom
Swap X	<input type="checkbox"/>
Transform transparently	<input type="checkbox"/>

- Changes the effect of the properties layoutDirection and swapX
- The transformation extends to the entire fragment

- **Baseline Type**

- When aligning objects in a same parent, which edge of this node should be aligned with which edge of its elder sibling

Layout	
Baseline Type	leftleft
Section	
Floating Behavior	free
Clip	<input type="checkbox"/>

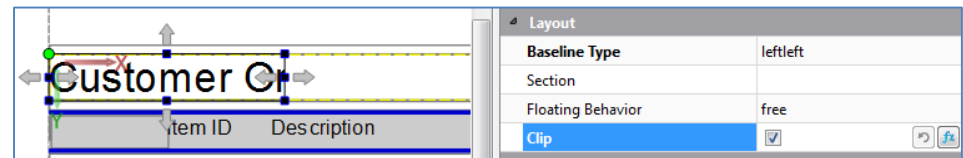
- **Section**

- Print an object at a specific location on a page
- Useful to define headers and footers
- Only for non-propagating containers


Section	anyPageHeader
Floating Behavior	firstPageHeader
Clip	oddPageHeader
Color	evenPageHeader
Color	anyPageFooter
Background Color	firstPageFooter
Font	oddPageFooter
	evenPageFooter
	itemSeparator

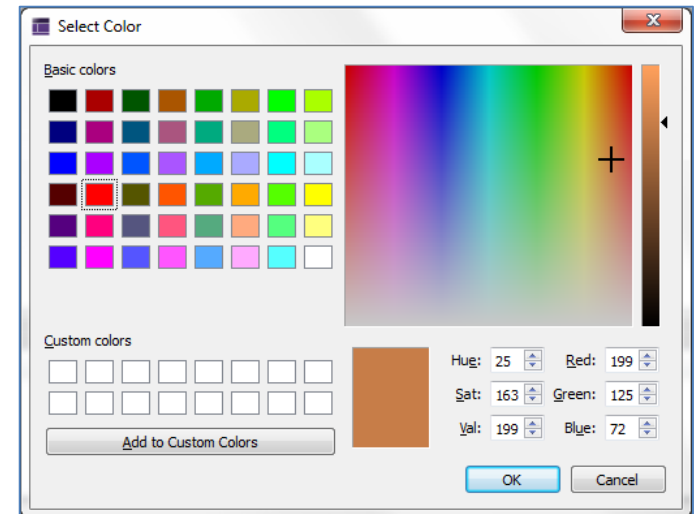
- Floating Behaviour
 - Should the parent object ignore this object when sizing
 - enclosed (no)
 - free (yes)
- Clip
 - Clip the report object box and its content along the sides

Layout	
Baseline Type	leftleft
Section	
Floating Behavior	free
Clip	<input type="checkbox"/>

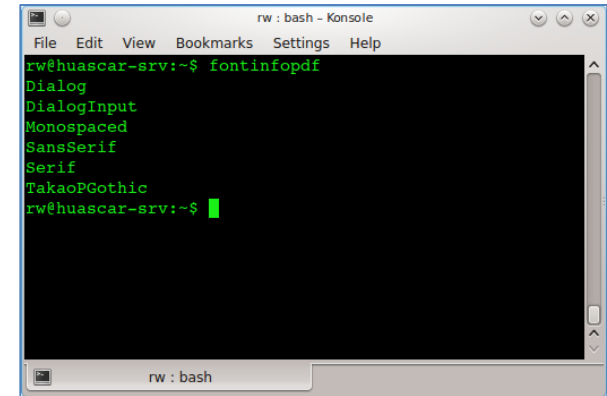


- Color
 - Most objects allow you to specify two colors
 - Wizard available that returns color as RGB
- Font
 - Name - select from list of fonts available (*)
 - Size
 - expressed as points e.g. 10,12
 - Expressed relative to default
 - $\text{fontSize} * 1.25$, 125%,
 - $\text{fontSize} * 0.8$, 80%

Color	
Color	 (255,0,0)
Background Color	
Font	
Name	Courier New
Size	25
Bold	<input type="checkbox"/>
Italic	<input checked="" type="checkbox"/>
Underline	<input type="checkbox"/>
Strikethrough	<input type="checkbox"/>
Fidelity	<input type="checkbox"/>

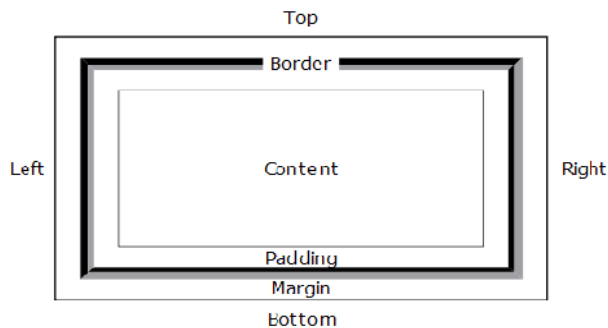



- Font
 - `$GREDIR/bin/fontinfo`
 - List of fonts available
 - `$GREDIR/bin/fontinfopdf`
 - List of fonts available that can be embedded in PDFs.
Not all fonts can be embedded in PDF documents
 - Where font not available, a system of fallback fonts is used
 - **Caution!** List of fonts on *Unix* Server where report runs may be different than fonts located on *Windows* PC where report is designed



```
rw : bash - Konsole
File Edit View Bookmarks Settings Help
rw@huascar-srv:~$ fontinfopdf
Dialog
DialogInput
Monospaced
SansSerif
Serif
TakaoPGothic
rw@huascar-srv:~$
```

- Padding
 - Space between content and border
- Border
- Margin
 - Space between border and sibling and parent



▾ Padding	
Width	0
Top Width	
Right Width	5
Bottom Width	
Left Width	5
▾ Border	
Rounded Corners	<input type="checkbox"/>
Width	2
Top Width	
Right Width	
Bottom Width	
Left Width	
Style	solid
Top Style	
Right Style	
Bottom Style	
Left Style	
Color	 (255,0,0)
Top Color	
Right Color	
Bottom Color	
Left Color	
▾ Margin	
Width	2
Top Width	
Right Width	
Bottom Width	
Left Width	

- href
 - Define an hyperlink
 - Pointing to
 - Resource on the Internet
 - Resource on the local disk
 - An anchor in the report document
- id
 - Create an anchor in the report document
 - Used as target of an hyperlink

Hyperlink	
href	http://www.4js.com
id	

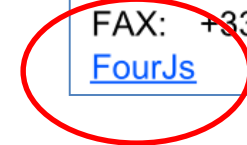
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[FourJs](#)



- Exercise 1
 - Open the **‘Sales’ project**
 - Open the ‘SalesList.4rp’ report design
 - Resize the columns of the list to more accurate values
 - Put all titles of the list in bold and change their font type and size
 - Set a text color on the second column (including the title)
 - Display the total in the following format at the bottom right of the list:
“Total: <total_value>”
 - Position the total at the bottom right of the page
 - Change the font size of the second column to a big value; ensure that all items in each line stay properly aligned (keep baseline alignment)

- Exercise 2
 - Open the **'OrderReportJava' demo project**
 - Open 'OrderReport.4rp' demo report design
 - Put all details of the Office's Address in italic
 - Change the font type of the whole Office's Address
 - Add an hyperlink to your Web Site in the Office's Address
 - Draw a border all around the Office's Address
 - Run the report