



Genero®
report writer

PAGE HEADERS AND FOOTERS

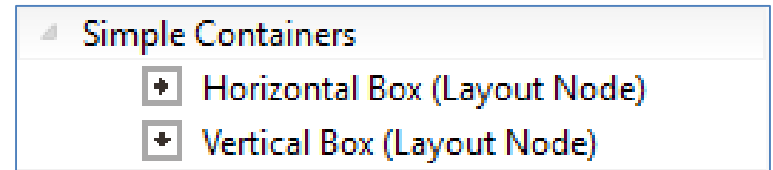
Using Genero Report Writer
GRS 3.00

After this instruction, you will be able to:

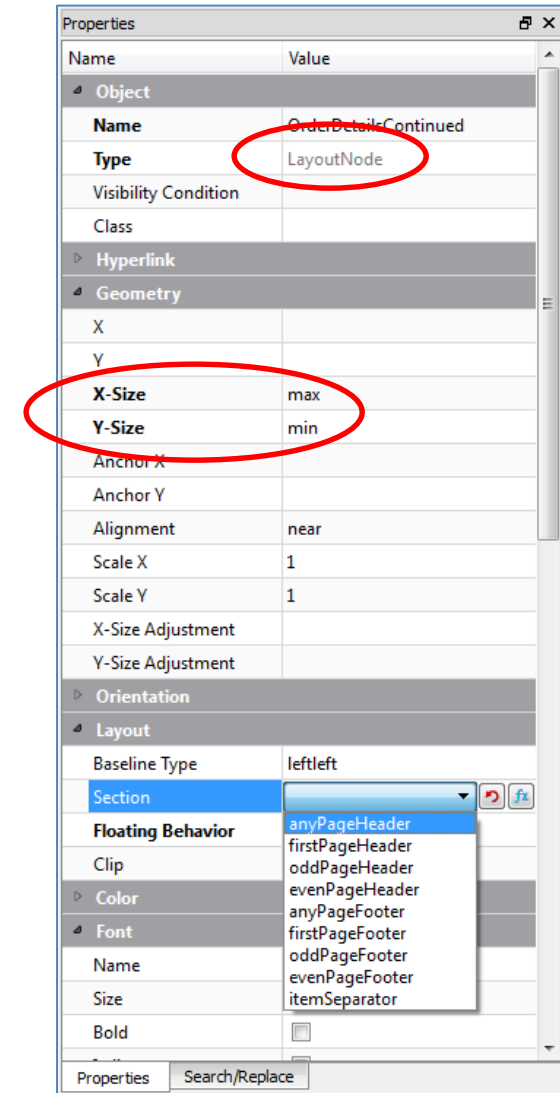
- Add headers and footers to a report
- Add an image to a report
- Add page numbers to a report
- Use Info Nodes and Reference Boxes for counters and references

What makes a header or footer?

- Layout Node container
 - Width of max
 - Height of min
- Section property set (see next slide)
 - Tells what "port" to attach the layout node on the parent MiniPage

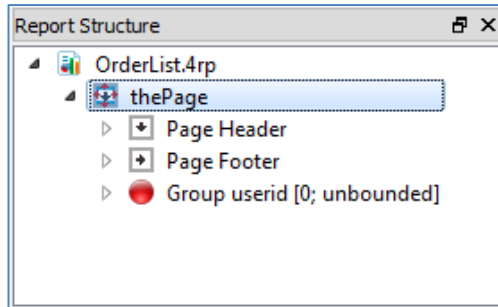


- Section (also called port)
 - Found in simple container layout Node
- Specifies which pages (of the parent mini page) should this object be printed on
- Only one header and one footer printed per page
- Most distinct header and footer will be printed on a page
 - First page
 - Odd/Even page
 - Any page

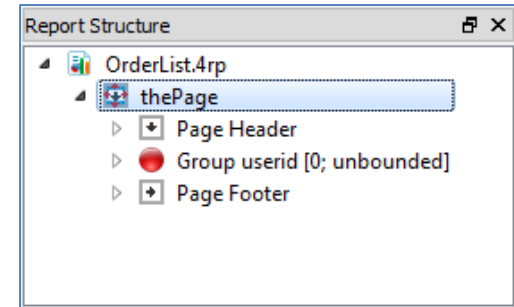


- If Section property specified, the nodes must be the elder sibling of any node without the Section property specified

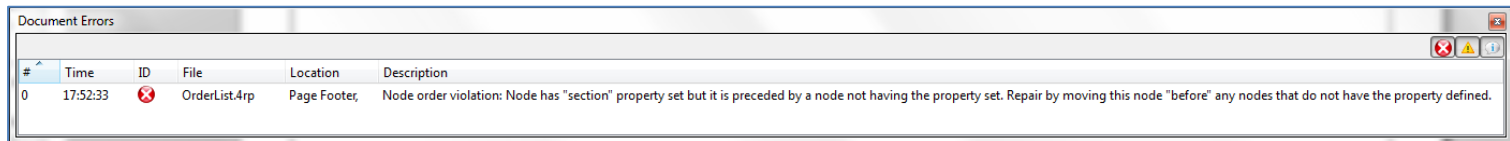
Good



Bad

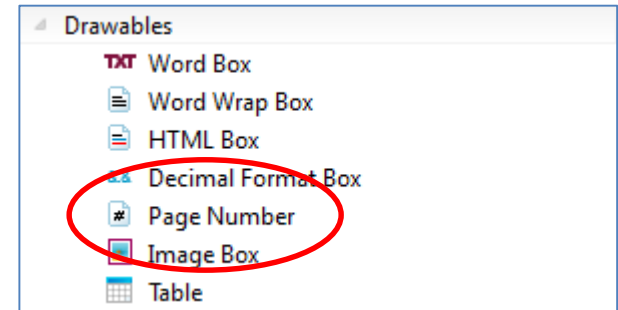


– Error Message if bad structure



- Footer nodes are printed when the page is first drawn
 - Hence they contain values applicable to the **first** data row rendered on a page

- GRD - Tool Box - Drawables
- Page Number
 - Print a page number
 - Name
 - Name of ancestor MiniPage to use to determine the page number
 - Allows each document within a report to start from page 1
 - Offset
 - Allow count to start from a number other than 1
 - Format
 - Arabic or roman numerals
 - Text Expression
 - Set an expression to display the page number as a string (page n of m)



Text Expression	"Page "+format(getPageNu...
Page Number	
Name	<input type="text"/> ▼ ↺ fx
Offset	PageNoLine
Format	PageRoot arabic

- GRD - Tool Box - Drawables

- Image

- Location

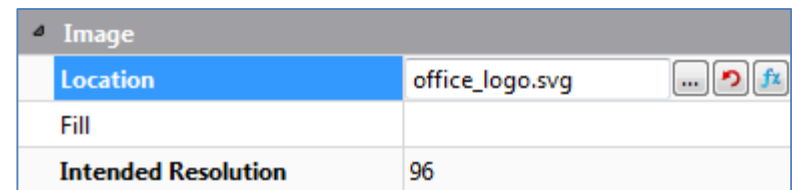
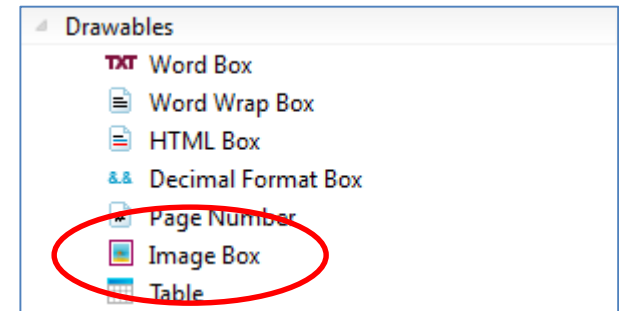
- Filename of source image
 - Can be a URL

- Fill

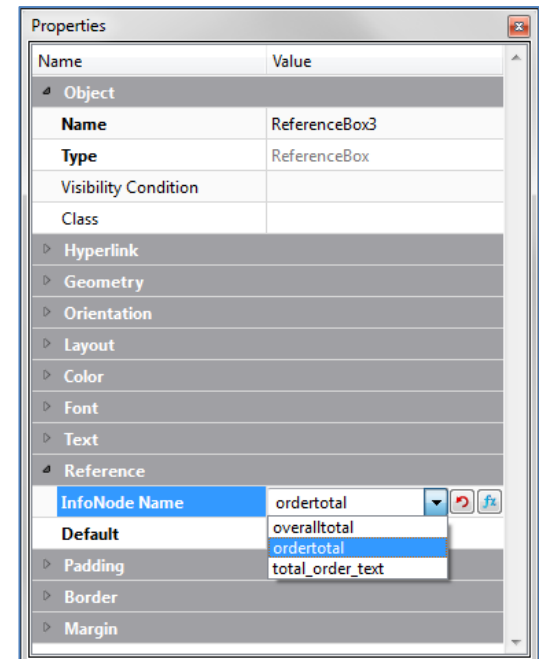
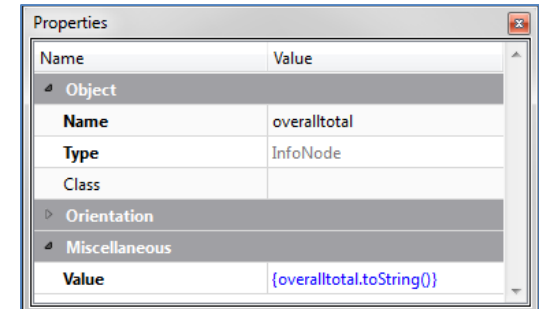
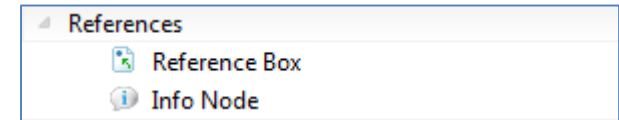
- Defines how the image should be displayed in the specified area
 - relevant when both X-Size and Y-Size are set

- Intended Resolution

- Dots per inch
 - Used to size image on page when X-Size or Y-Size not defined
 - If X-Size or Y-Size defined, and tile not set, image will be scaled in one or both directions

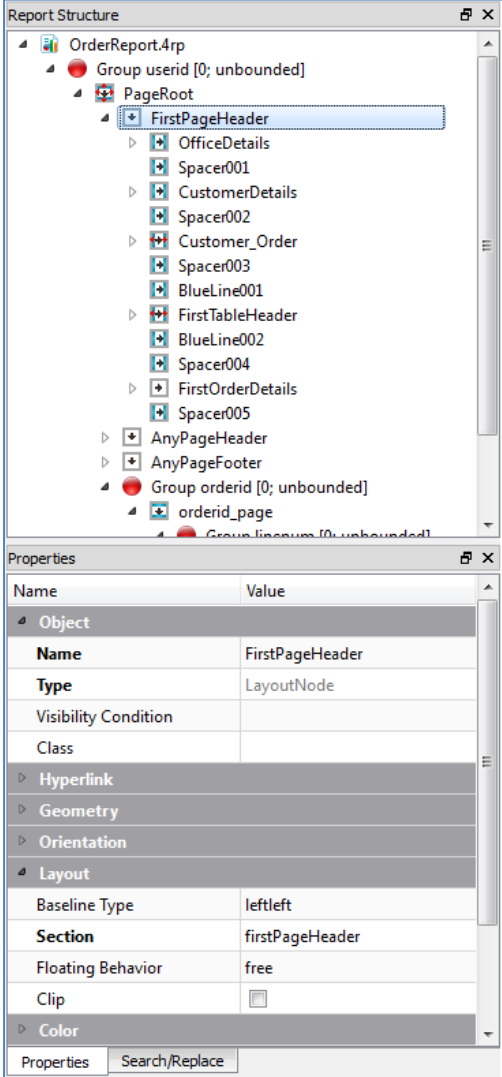


- GRD - Tool Box - References
- Info Node
 - Store a value for later use by a reference box
 - Value = value to store for later use
- Reference Box
 - Display a value from an InfoNode
 - InfoNodeName = name of InfoNode to get value from
 - Default = what to display if value can't be referenced
 - X-Size or Text must be defined
- Due to streaming, this concept only operates in one direction



The first page different from the rest

- Have a first page different from the rest of the report (such as a cover page)
- Pass information needed at the beginning of the Java report code
- Insert additional LayoutNode with
 - size=max
 - Section=FirstPageHeader



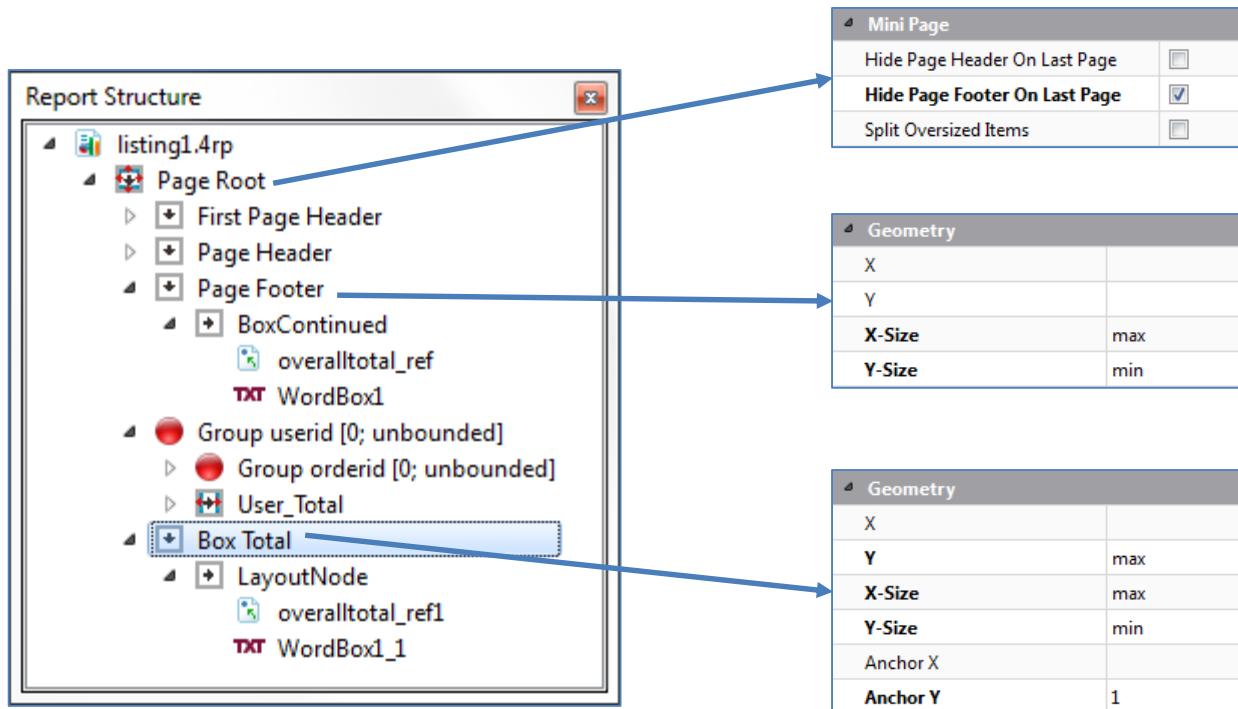
The screenshot shows two windows from a report design tool. The top window, titled "Report Structure", displays a tree view of the report layout. The "PageRoot" node is expanded, showing a "FirstPageHeader" node selected. Below it, the "Properties" window is open, showing the configuration for the selected "FirstPageHeader" node. The "Properties" window has a table with "Name" and "Value" columns.

Name	Value
Object	
Name	FirstPageHeader
Type	LayoutNode
Visibility Condition	
Class	
Hyperlink	
Geometry	
Orientation	
Layout	
Baseline Type	leftleft
Section	firstPageHeader
Floating Behavior	free
Clip	<input type="checkbox"/>
Color	

- Problem characterized by:
 - Display a message when the detail continues onto another page and no total is printed on the current one
- Solution
 - Place continued message in page footer so that it appears in same position as total
 - Disable the footer on the last page
 - The totals will display at the place of the footer

Footer: Continued or Report Total?

- Footer drawn first - include a layout node with "continued"
- After last row, print report total OVER continued layout node
- Hide page footer on last page



The screenshot shows the 'Report Structure' window for a report named 'listing1.4rp'. The tree view includes:

- listing1.4rp
 - Page Root
 - First Page Header
 - Page Header
 - Page Footer
 - BoxContinued
 - overalltotal_ref
 - WordBox1
 - Group userid [0; unbounded]
 - Group orderid [0; unbounded]
 - User_Total
 - Box Total (highlighted)
 - LayoutNode
 - overalltotal_ref1
 - WordBox1_1

Three property windows are shown to the right, with blue arrows pointing from the Report Structure window to them:

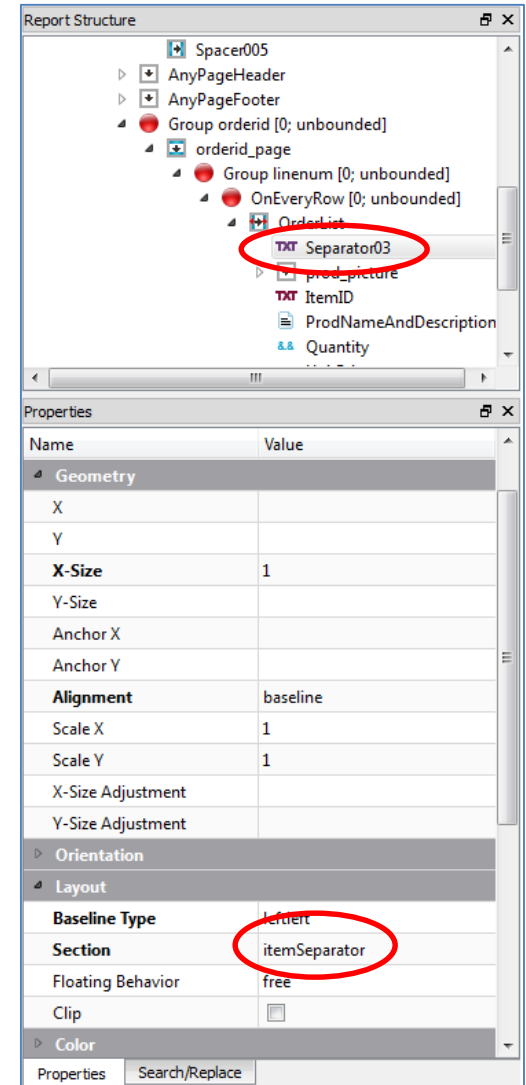
- Mini Page**

Hide Page Header On Last Page	<input type="checkbox"/>
Hide Page Footer On Last Page	<input checked="" type="checkbox"/>
Split Oversized Items	<input type="checkbox"/>
- Geometry**

X	
Y	
X-Size	max
Y-Size	min
- Geometry**

X	
Y	max
X-Size	max
Y-Size	min
Anchor X	
Anchor Y	1

- ItemSeparator positions itself between each sibling in same node
 - Use to add space for sibling items aligned vertically
 - The list report spacer is a WordBox with itemSeparator set (and a Text value of a single space)
 - Use to add a horizontal line for siblings aligned horizontally



The screenshot displays two windows from a report design tool. The top window, titled 'Report Structure', shows a hierarchical tree view. Under the 'OrderList' node, 'Separator03' is highlighted with a red circle. The bottom window, titled 'Properties', shows a table of properties for the selected 'Separator03' object. The 'Section' property is set to 'itemSeparator' and is also circled in red.

Name	Value
Geometry	
X	
Y	
X-Size	1
Y-Size	
Anchor X	
Anchor Y	
Alignment	baseline
Scale X	1
Scale Y	1
X-Size Adjustment	
Y-Size Adjustment	
Orientation	
Layout	
Baseline Type	Left
Section	itemSeparator
Floating Behavior	free
Clip	<input type="checkbox"/>
Color	



- Open the **‘Sales’ project**
- Modify the **‘Sales.java’** source to generate more data
- Modify the header of the list report
 - Display the page number in the format “Page n of m”
 - Add an image into the header (logo of the company)
- Add a footer to the list report and display the total in the footer
- Use reference box and info node