



Genero®
report writer

REPORT OUTPUT OPTIONS

Using Genero Report Writer
GRS 3.00

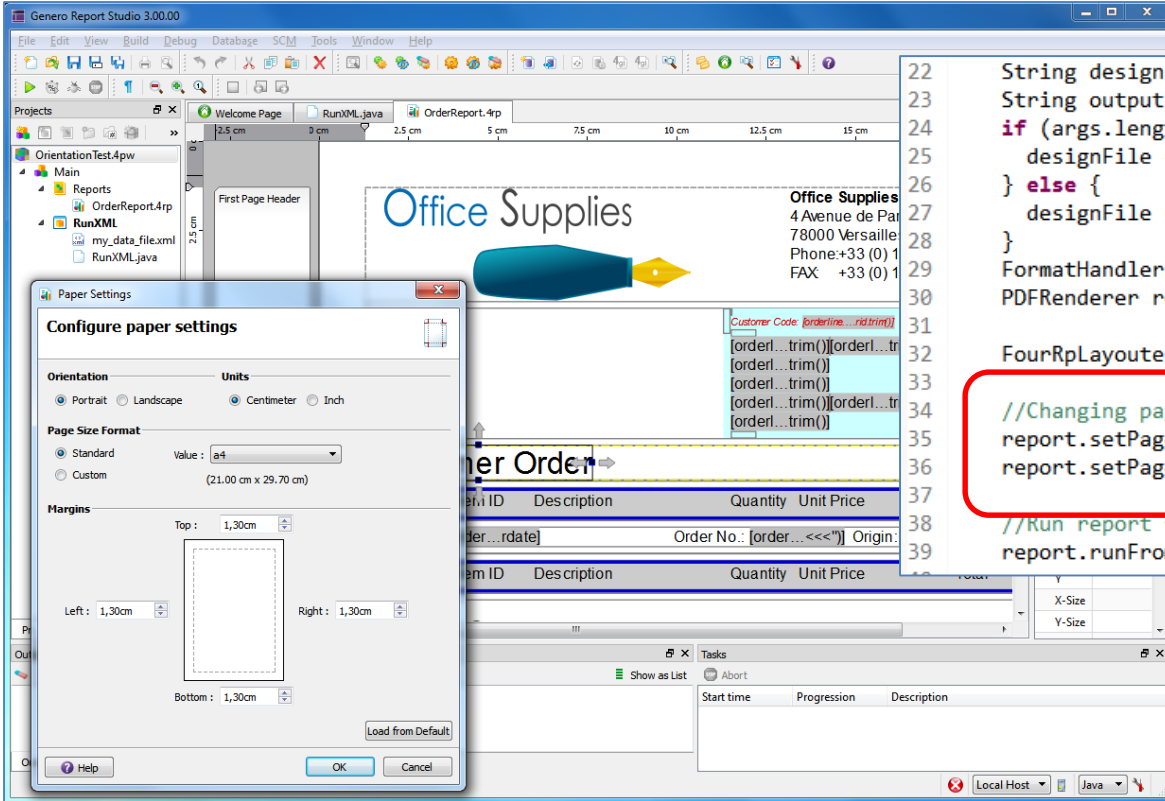
After this instruction, you will be able to:

- Modify paper & page settings for a report
- Configure the output format of a report
- Print a report and modify printer settings

- What can you set?
 - Page and paper settings
 - Output device settings
 - Printer settings
- Where can you set it?
 - GRW defaults
 - Tools >> Preferences >> Report Writer
 - Individual Report Design document (page & output)
 - File >> Report Properties >> Paper Settings...
 - Within the Java source code calling specific reporting API functions

- Modify page size and margins on ‘FourRpLayouter’ or ‘PXMLLayouter’ objects
 - Examples
 - `report.setPageLength("100pt");`
 - `report.setLeftMargin("1.5cm");`
 - `layouter.setPageWidth("a4width");`
 - `layouter.setTopMargin("50mm");`
 - ...
- Modify the orientation by specifying page width and page length
 - Example with an A4 page size report
 - `report.setPageLength("a4width");`
 - `report.setPageWidth("a4length");`

Example: Changing page orientation



Paper Settings

Configure paper settings

Orientation

Portrait
 Landscape
 Centimeter
 Inch

Page Size Format

Standard Value: a4
 Custom (21.00 cm x 29.70 cm)

Margins

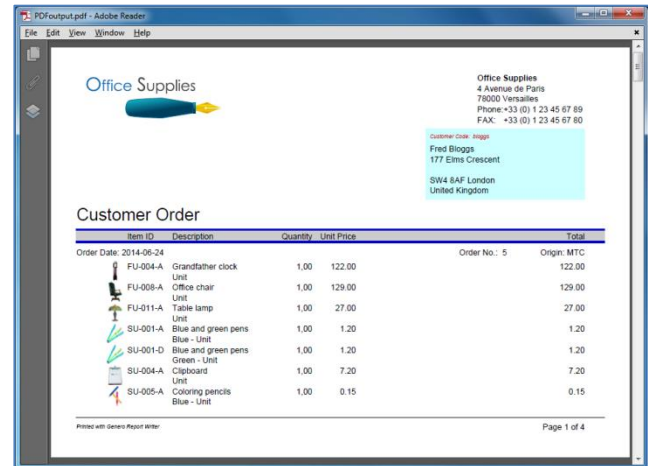
Top: 1,30cm
 Left: 1,30cm
 Right: 1,30cm
 Bottom: 1,30cm

Load from Default

OK Cancel

```

22 String designFile;
23 String outputFilename = "PDFOutput.pdf";
24 if (args.length == 0) {
25     designFile = "OrderReport.4rp";
26 } else {
27     designFile = args[0];
28 }
29 FormatHandler handler = new FormatWriter(outputFilename);
30 PDFRenderer renderer = new PDFRenderer(handler);
31
32 FourRpLayouter report = new FourRpLayouter(designFile, renderer);
33
34 //Changing page orientation
35 report.setPageLength("a4width");
36 report.setPageWidth("a4length");
37
38 //Run report from XML file:
39 report.runFromXML("my_data_file.xml");
  
```



Office Supplies

Office Supplies
4 Avenue de Paris
78000 Versailles
Phone: +33 (0) 1 23 45 67 89
FAX: +33 (0) 1 23 45 67 80

Customer Code: 177
Fred Bloggs
177 Elms Crescent
SW4 4AF London
United Kingdom

Customer Order

Item ID	Description	Quantity	Unit Price	Total
Order Date: 2014-06-24				Order No.: 5
FU-004-A	Grandfather clock	1,00	122,00	122,00
FU-008-A	Office chair	1,00	129,00	129,00
FU-011-A	Table lamp	1,00	27,00	27,00
SU-001-A	Blue and green pens	1,00	1,20	1,20
SU-001-D	Blue and green pens	1,00	1,20	1,20
SU-004-A	Green - Unit	1,00	7,20	7,20
SU-005-A	Coloring pencils	1,00	0,15	0,15

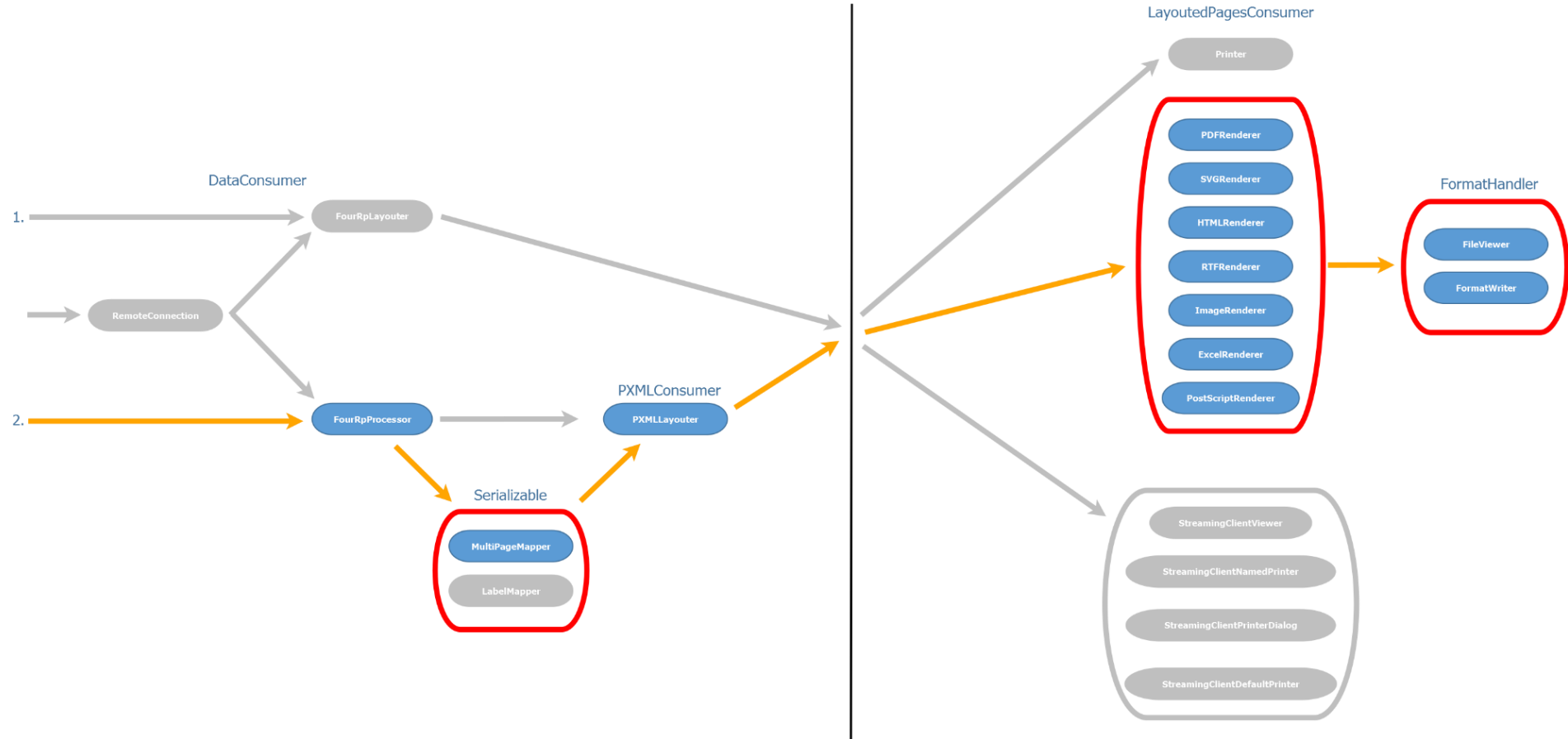
Printed with Genero Report writer

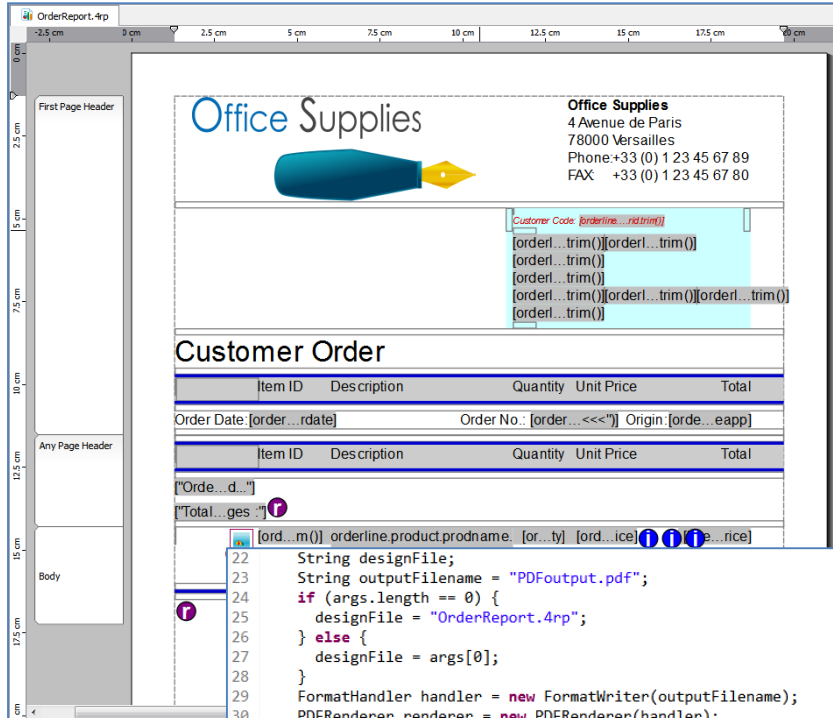
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- ‘MultiPageMapper’
 - Class for rendering several pages of a report on a single physical page
 - Significant methods
 - setPageExponent(Integer pageExponent)
 - number of logical pages that will be placed on a paper sheet as a index of 2
 - setIsoNumber(Integer isoNumber)
 - Specifies the ISO value (e.g. 4 for A4)
 - setPortrait(Boolean portrait)
 - Specifies the orientation of the report (logical pages)

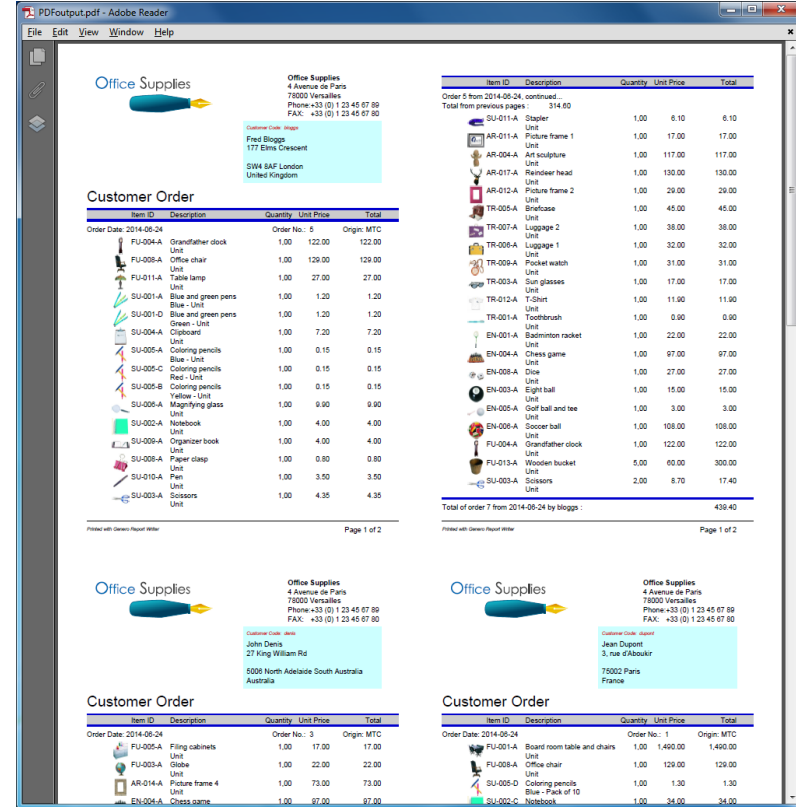
Processing pipe (multipage)





```

22 String designFile;
23 String outputFilename = "PDFOutput.pdf";
24 if (args.length == 0) {
25     designFile = "OrderReport.4rp";
26 } else {
27     designFile = args[0];
28 }
29 FormatHandler handler = new FormatWriter(outputFilename);
30 PDFRenderer renderer = new PDFRenderer(handler);
31
32 //Defining the Multipage
33 PXMLConsumer multiPageLayout = new PXMLLayouter(renderer);
34 MultiPageMapper myMultiPageMapper = new MultiPageMapper(multiPageLayout);
35 myMultiPageMapper.setIsoNumber(4);
36 myMultiPageMapper.setPageExponent(2);
37 myMultiPageMapper.setPortrait(true);
38 myMultiPageMapper.setPaperLeftMargin("2mm");
39 myMultiPageMapper.setPaperRightMargin("2mm");
40 myMultiPageMapper.setPaperTopMargin("2mm");
41 myMultiPageMapper.setPaperBottomMargin("2mm");
42 multiPageLayout = myMultiPageMapper;
43
44 FourRpProcessor report = new FourRpProcessor(designFile, multiPageLayout);
45
46 //Run report from XML file:
47 report.runFromXML("my_data_file.xml");
    
```

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4 Avenue de Paris
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FAX: +33 (0) 1 23 45 67 80

Customer Code: Bloggs
Fred Bloggs
177 Elms Crescent
SW4 8AF London
United Kingdom

Customer Order

Item ID	Description	Quantity	Unit Price	Total
FU-004-A	Grandfather clock Unit	1.00	122.00	122.00
FU-008-A	Office chair Unit	1.00	129.00	129.00
FU-011-A	Table lamp Unit	1.00	27.00	27.00
SU-001-A	Blue and green pens Blue - Unit	1.00	1.20	1.20
SU-001-D	Blue and green pens Green - Unit	1.00	1.20	1.20
SU-004-A	Clipboard Unit	1.00	7.20	7.20
SU-005-A	Coloring pencils Blue - Unit	1.00	0.15	0.15
SU-005-C	Coloring pencils Red - Unit	1.00	0.15	0.15
SU-005-B	Coloring pencils Yellow - Unit	1.00	0.15	0.15
SU-006-A	Magnifying glass Unit	1.00	9.00	9.00
SU-002-A	Notebook Unit	1.00	4.00	4.00
SU-009-A	Organizer book Unit	1.00	4.00	4.00
SU-004-A	Paper clamp Unit	1.00	0.80	0.80
SU-010-A	Pen Unit	1.00	3.50	3.50
SU-003-A	Scissors Unit	1.00	4.35	4.35

Order Date: 2014-06-24 Order No.: 6 Origin: MTC

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4 Avenue de Paris
78000 Versailles
Phone +33 (0) 1 23 45 67 89
FAX: +33 (0) 1 23 45 67 80

Customer Code: Dupont
John Dupont
27 King William Rd
5008 North Adelaide South Australia
Australia

Customer Order

Item ID	Description	Quantity	Unit Price	Total
FU-005-A	Filing cabinets Unit	1.00	17.00	17.00
FU-003-A	Globe Unit	1.00	22.00	22.00
AR-014-A	Picture frame 4 Unit	1.00	73.00	73.00
EN-004-A	Chess game Unit	1.00	97.00	97.00

Order Date: 2014-06-24 Order No.: 3 Origin: MTC

Office Supplies
4 Avenue de Paris
78000 Versailles
Phone +33 (0) 1 23 45 67 89
FAX: +33 (0) 1 23 45 67 80

Customer Code: Dupont
Jean Dupont
3, rue d'Anbois
75002 Paris
France

Customer Order

Item ID	Description	Quantity	Unit Price	Total
FU-001-A	Board room table and chairs Unit	1.00	1,400.00	1,400.00
FU-008-A	Office chair Unit	1.00	129.00	129.00
SU-005-D	Coloring pencils Blue - Pack of 10 Unit	1.00	1.30	1.30
SU-002-C	Notebook Unit	1.00	34.00	34.00

Order Date: 2014-06-24 Order No.: 1 Origin: MTC

- Reminder: Each output format corresponds to specific renderer
- Renderer can be configured through specific API calls
- What can be configured
 - Page range to print
 - Image embedding
 - Image resolution
 - ...

- Configuring PDFRenderer

Methods	
Modifier and Type	Method and Description
void	<code>setEncodeImagesAsJPEG(Boolean encodeImagesAsJPEG)</code> Sets whether images included in the document are encoded in JPEG format or in a more space consuming lossless format.
void	<code>setFontDirectory(String fontDirectory)</code> Sets an additional search directory for font files.
void	<code>setFromPage(Integer fromPage)</code> Sets the first page to be included in the document.
void	<code>setJPEGQuality(Double quality)</code> Sets the compression quality to a value between 0 and 1 in case JPEG image inclusion has been selected.
void	<code>setMaximumImageResolution(Integer maximumImageResolutionInDPI)</code> Sets the maximum DPI of images included in the document.
void	<code>setToPage(Integer toPage)</code> Sets the last page (inclusive) to be included in the document.

- Configuring SVGRenderer

Methods	
Modifier and Type	Method and Description
void	<code>setEncodeImagesAsJPEG(Boolean encodeImagesAsJPEG)</code> Sets whether images included in the document are encoded in JPEG format or in a more space consuming lossless format.
void	<code>setFontDirectory(String fontDirectory)</code> Sets an additional search directory for font files.
void	<code>setFromPage(Integer fromPage)</code> Sets the first page to be included in the document.
void	<code>setJPEGQuality(Double quality)</code> Sets the compression quality to a value between 0 and 1 in case JPEG image inclusion has been selected.
void	<code>setMaximumImageResolution(Integer maximumImageResolutionInDPI)</code> Sets the maximum DPI of images included in the document.
void	<code>setToPage(Integer toPage)</code> Sets the last page (inclusive) to be included in the document.

- Configuring HTMLRenderer

Methods	
Modifier and Type	Method and Description
void	<code>setEmbedImages (Boolean embedImages)</code> Activates image embedding if true, external image file referencing if false.
void	<code>setFromPage (Integer fromPage)</code> Sets the first page to be included in the document.
void	<code>setIgnoreColumnAlignment (Boolean ignoreColumnAlignment)</code> Sets whether the column alignment of items can be ignored allowing a more compact representation.
void	<code>setIgnoreRowAlignment (Boolean ignoreRowAlignment)</code> Sets whether the row alignment of items can be ignored allowing a more compact representation.
void	<code>setImageGenerationDirectory (String imageGenerationDirectory)</code> Sets the directory where images files are to be created when image embedding has been unselected.
void	<code>setImageURLPrefix (String imageURLPrefix)</code> Sets the prefix for generated URLs that reference external images when image embedding has been unselected.
void	<code>setRemoveBackgroundImages (Boolean removeBackgroundImages)</code> Activates background image removal if true, partially obscured images are preserved if false.
void	<code>setRemoveWhitespace (Boolean removeWhitespace)</code> Activates whitespace removal if true, columns or rows containing whitespace only are preserved if false.
void	<code>setToPage (Integer toPage)</code> Sets the last page (inclusive) to be included in the document.

- Configuring RTFRenderer

Methods

Modifier and Type	Method and Description
<code>RTFRenderer.OutputFormat</code>	<code>getOutputFormat()</code>
<code>void</code>	<code>setFromPage(Integer fromPage)</code> Sets the first page to be included in the document.
<code>void</code>	<code>setImageFormat(RTFRenderer.ImageFormat imageFormat)</code> Sets the image format of images contained in the document as determined by the <code>imageFormat</code> argument.
<code>void</code>	<code>setMaximumImageResolution(Integer maximumImageResolutionInDPI)</code> Sets the maximum DPI of images included in the document.
<code>void</code>	<code>setMemoryThreshold(Integer memoryThresholdInBytes)</code> Sets the threshold for disk swapping.
<code>void</code>	<code>setOutputFormat(RTFRenderer.OutputFormat outputFormat)</code> Sets the output format as determined by the <code>outputFormat</code> argument.
<code>void</code>	<code>setToPage(Integer toPage)</code> Sets the last page (inclusive) to be included in the document.

- Configuring ExcelRenderer

Methods

Modifier and Type	Method and Description
void	<code>setFromPage(Integer fromPage)</code> Sets the first page to be included in the document.
void	<code>setIgnoreColumnAlignment(Boolean ignoreColumnAlignment)</code> Sets whether the column alignment of items can be ignored allowing a more compact representation.
void	<code>setIgnoreRowAlignment(Boolean ignoreRowAlignment)</code> Sets whether the row alignment of items can be ignored allowing a more compact representation.
void	<code>setMergeCells(Boolean mergeCells)</code> Activates cell merging if true, separate empty cells are created otherwise.
void	<code>setMergePages(Boolean mergePages)</code> Activates page merging if true, separate sheets for each page are created if false.
void	<code>setOutputFormat(ExcelRenderer.OutputFormat outputFormat)</code> Sets the output format as determined by the outputFormat argument.
void	<code>setRemoveBackgroundImages(Boolean removeBackgroundImages)</code> Activates background image removal if true, partially obscured images are preserved if false.
void	<code>setRemoveWhitespace(Boolean removeWhitespace)</code> Activates whitespace removal if true, columns or rows containing whitespace only are preserved if false.
void	<code>setToPage(Integer toPage)</code> Sets the last page (inclusive) to be included in the document.

- Configuring ImageRenderer

Methods	
Modifier and Type	Method and Description
void	<code>setAntialiasFonts(Boolean antialiasFonts)</code> Sets whether text is drawn using antialiasing.
void	<code>setAntialiasShapes(Boolean antialiasShapes)</code> Sets whether shapes are drawn using antialiasing.
void	<code>setFileNamePrefix(String fileNamePrefix)</code> Sets the file name prefix of the generated image files.
void	<code>setFileType(ImageRenderer.ImageFormat fileType)</code> Sets the output format as determined by the <code>fileType</code> argument.
void	<code>setFileType(String fileType)</code> Sets the output format as determined by the <code>fileType</code> argument.
void	<code>setFromPage(Integer fromPage)</code> Sets the first page to be included in the document.
void	<code>setGenerationDirectoryName(String generationDirectoryName)</code> Sets the name of the directory in which the files are created.
void	<code>setGrayscale(Boolean grayscale)</code> Sets whether the images produced are gray scale or color bitmaps.
void	<code>setResolution(Integer resolutionInDPI)</code> Sets the resolution of the images produced.
void	<code>setShrinkImageToPageContent(Boolean shrinkImagesToPageContent)</code> Sets whether the images produced are cropped to the page content (size of the page box) or have full page size.
void	<code>setToPage(Integer toPage)</code> Sets the last page (inclusive) to be included in the document.
void	<code>setUsePageNamesAsFileNames(Boolean usePageNamesAsFileNames)</code> Sets whether the page names ("name" attribute) in the document should be used as file names.