

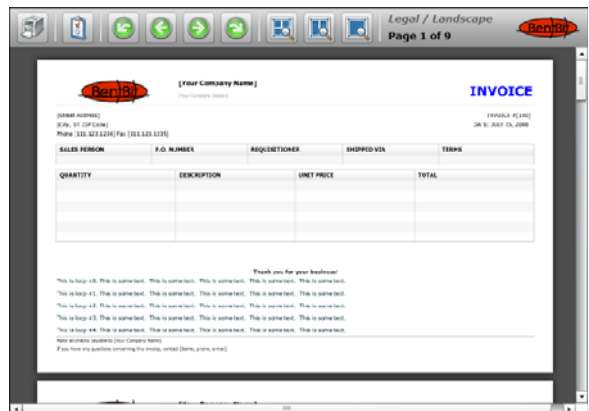
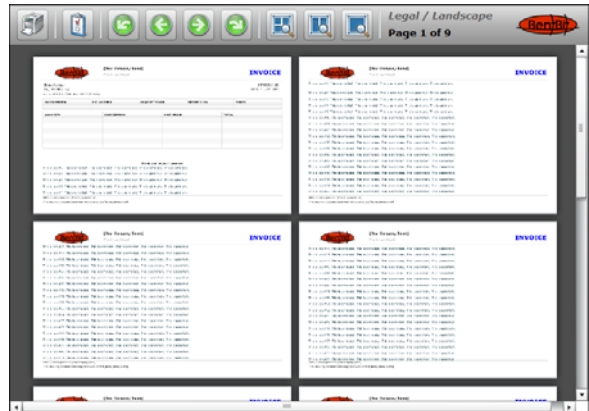
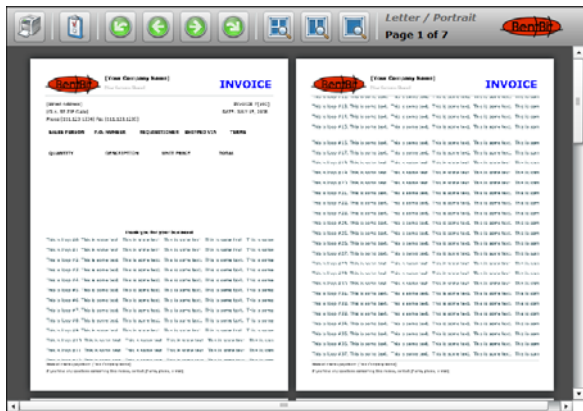
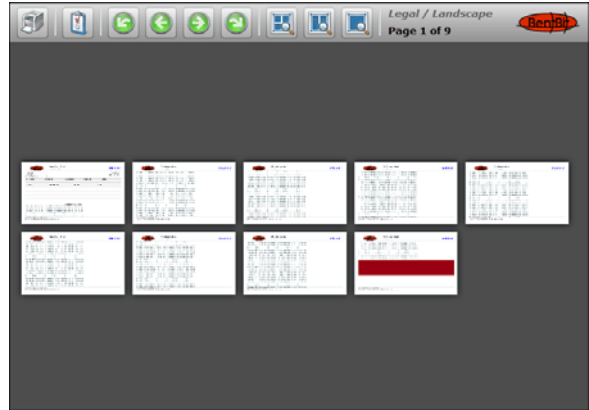
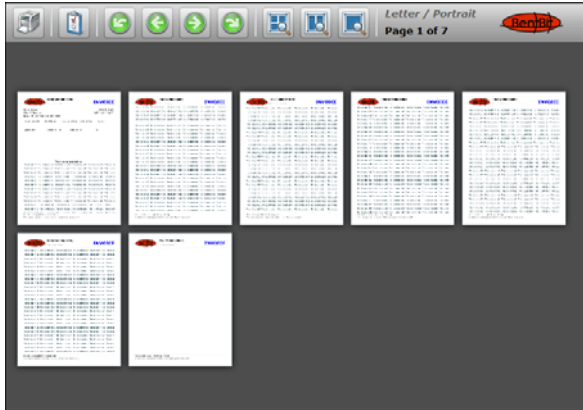


BentBit Report

By BentBit LLC

Introduction

BentBit Report is a component built specifically to fix the many issues with printing in Adobe Flex. BentBit Report is provided with complete documentation and examples. BentBit Report will reduce the time and energy spent by your development staff. This component is easily integrated into any Flex project. Here are some examples of BentBit Report in action.



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World Wide Web

The BentBit LLC website is located at <http://www.bentbit.com>. You can visit our website to access product documentation, news and updates.

Redistribute BentBit Report with your applications

You may distribute BentBit Report, compiled into your application or project, as a SWF file. Distributing the SWC file or the license key is prohibited.

BentBit Report is written completely in Actionscript 3 and is designed to integrate with Adobe Flex Rich Internet Applications (RIA).

Adding the BentBit Report SWC into your project

1. Open Flex Builder
2. Click "Project" -> "Properties"
3. Choose "Flex Builder Path" in left
4. Choose Library in right
5. Click "Add SWC", choose the BentBit Report SWC file then click "OK"

Importing the BentBit Report Namespace into your code

Here are some examples of how to import the BentBit Report namespace into your code. Notice the code highlighted in purple.

MXML

```
<?xml version="1.0" encoding="utf-8"?>
<mx:Application
  xmlns:mx="http://www.adobe.com/2006/mxml "
  xmlns:bentbit="org.bentbit.report.*"
  layout="absolute">
</mx:Application>
```

Actionscript

```
<?xml version="1.0" encoding="utf-8"?>
<mx:Application
  xmlns:mx="http://www.adobe.com/2006/mxml "
  layout="absolute">
  <mx:Script>
    <![CDATA[
      import org.bentbit.report.*;
    ]]>
  </mx:Script>
</mx:Application>
```

Object Reference

ReportViewer (*org.bentbit.report.ReportViewer*)

The ReportViewer object is a graphical object used to view and browse the Report object. This object gives users the ability to easily navigate, print, zoom and select page properties.

Default Characteristics

Characteristic	Description
BentbitLogo	True
Report	Null

Public Properties

Property	Type	Description
BentbitLogo	Boolean	Enables/Disables the BentBit logo in the top right of the object.
Report	Report	The report object to display.

Public Methods

Method	Description
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Public Events

Event	Description
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Report (org.bentbit.report.Report)

The Report object is where the report is actually designed. Most of the work is actually done in this object. You can control many of the page dimensions with this object's properties.

Default Characteristics

Characteristic	Description
Body	Null
Footer	Null
FooterHeight	1
Header	Null
HeaderHeight	1
horizontalAlign	Left
MarginBottom	0.5
MarginLeft	0.5
MarginRight	0.5
MarginTop	0.5
PageHeight	11
PageOrientation	Portrait
PageSize	Letter
PageWidth	8.5
PrintMode	Bitmap
Quality	Medium
Units	Inches

Public Properties

Property	Type	Description
Body	Array	Objects to display in the body section of the report.
Footer	Array	Objects to display in the footer section of the report.
FooterHeight	Number	The footer height of the report. <i>(Measured in Units)</i>
Header	Array	Objects to display in the header section of the report.
HeaderHeight	Number	The header height of the report. <i>(Measured in Units)</i>
horizontalAlign	String	The alignment of the objects in the report. (Center, Left, Right)
MarginBottom	Number	The size of the bottom margin of the report. <i>(Measured in Units)</i>
MarginLeft	Number	The size of the left margin of the report. <i>(Measured in Units)</i>
MarginRight	Number	The size of the right margin of the report. <i>(Measured in Units)</i>
MarginTop	Number	The size of the top margin of the report. <i>(Measured in Units)</i>
PageCurrent	int	[Read-Only] The current page of the report. <i>(Can be used to bind to the current page number in a report)</i>
PageHeight	Number	[Read-Only] The page height of the report. <i>(Measured in Units)</i>
PageOrientation	String	The page orientation. <i>(Portrait, Landscape)</i>
PageSize	String	The page size for the report. <i>(Letter, Legal, Ledger, Tabloid, Executive, ANSI C, ANSI D, A1, A2, A3, A4, A5, A6, A7, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, C2, C3, C4, C5, C6)</i>

PageTotal	int	[Read-Only] The total number of pages in the report. <i>(Can be used to bind to the total number of pages in a report)</i>
PageWidth	Number	[Read-Only] The page width of the report. <i>(Measured in Units)</i>
PrintMode	String	[Read-Only] The mode to print the Report in. <i>(Bitmap, Vector)</i>
Quality	String	The quality to render the report. <i>(High, Medium, Low)</i>
Units	String	[Read-Only] The unit of measurement for the report. <i>(Inches, Millimeters)</i>
Version	String	[Read-Only] The version of the report object.

Public Methods

Method	Description
Image(iPage:int):ByteArray	Returns the image for a page in the report. <i>(The image is cached)</i>
Print(sFilter:String = ""):void	Sends the report to the printer. The filter can be used to print specific pages in the report. <i>(1,3,5-16)</i>
Render():void	Renders the report. <i>(Renders the page images and caches them)</i>
Update():void	Renders the report. <i>(Does not render the page images)</i>

Public Events

Event	Description
renderStart	Dispatched when the report starts rendering.
renderProgress	Dispatched during the report rendering process. Passes the current progress of the rendering process.
renderComplete	Dispatched when the report rendering is complete.
renderError	Dispatched when there is an error rendering the report.
printStart	Dispatched when the report starts printing.
printProgress	Dispatched during the report printing process. Passes the current progress of the printing process.
printComplete	Dispatched when the report printing is complete.
printError	Dispatched when there is an error printing the report.

ReportContainer (*org.bentbit.report.ReportContainer*)

The ReportContainer object is an object used to control the layout of child components in a report. The ReportContainer object should be used to layout child objects created by the Repeater component.

Default Characteristics

Characteristic	Description
----------------	-------------

Public Properties

Property	Type	Description
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Public Methods

Method	Description
--------	-------------

Public Events

Event	Description
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ReportPagebreak (*org.bentbit.report.ReportPagebreak*)

The ReportPagebreak object is a graphical object used to create page breaks in your report.

Default Characteristics

Characteristic	Description
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Public Properties

Property	Type	Description
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Public Methods

Method	Description
--------	-------------

Public Events

Event	Description
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ReportSpacer (*org.bentbit.report.ReportSpacer*)

The ReportSpacer object is a graphical object used by the Report object to space objects during the rendering process.

Default Characteristics

Characteristic	Description
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Public Properties

Property	Type	Description
----------	------	-------------

Public Methods

Method	Description
--------	-------------

Public Events

Event	Description
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Creating Your First Report

As you will learn, generating BentBit Reports is a very straight forward process. If you understand basic MXML syntax and structure you will find that there is almost no learning curve to create even complicated reports. There are a few things to remember when designing a report.

- Don't forget to dispatch the Report Render method
- You can choose the default page size, orientation, margins and header/footer heights
- The Report PageSize property automatically sets the units for the report.
 - Inches: *Letter, Legal, Ledger, Tabloid, Executive, ANSI C, ANSI D*
 - Millimeters: *A1, A2, A3, A4, A5, A6, A7, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, C2, C3, C4, C5, C6*
- You can bind to the PageCurrent and PageTotal properties
- You can nest controls
- You can set control widths to 100%
- You cannot set control heights to 100%

First Report Example (Adobe Flex)

```
<?xml version="1.0" encoding="utf-8"?>
<mx:Application
  xmlns:mx="http://www.adobe.com/2006/mxml"
  xmlns:bentbit="org.bentbit.report.*"
  layout="absolute"
  creationComplete="oBentbitReport.Render();" >
  <bentbit:ReportViewer BentbitLogo="true" x="0" y="0" width="100%" height="100%">
    <bentbit:Report>
      <bentbit:Report
        id="oBentbitReport"
        PageSize="Letter"
        PageOrientation="Landscape"
        Quality="High"
        HeaderHeight=".5"
        FooterHeight="0.5"
        horizontalAlign="Left">
        <bentbit:Header>
          <mx:Label text="This is the Header."/>
        </bentbit:Header>
        <bentbit:Body>
          <mx:Label text="This is my first BentBit Report."/>
          <bentbit:ReportPagebreak/>
          <mx:Label text="This is the second page of my first BentBit Report."/>
        </bentbit:Body>
        <bentbit:Footer>
          <mx:HBox width="100%">
            <mx:HBox width="50%" horizontalAlign="left">
              <mx:Label text="This is the Footer."/>
            </mx:HBox>
            <mx:HBox width="50%" horizontalAlign="right">
              <mx:Label text="Page {oBentbitReport.PageCurrent} of
{oBentbitReport.PageTotal}" />
            </mx:HBox>
          </mx:HBox>
        </bentbit:Footer>
      </bentbit:Report>
    </bentbit:Report>
  </bentbit:ReportViewer>
</mx:Application>
```

Creating Complicated Reports

The BentBit Report object has special functionality built in to auto adjust the sizing for more complicated reports. Here are a few things to remember:

Repeater

BentBit Report will automatically try to adjust the spacing between your repeater children so that they do not clip between pages. If the repeater children height is more than the height of the page then clipping will occur. Repeater objects must be nested in a ReportContainer control. Make sure you call the Report Render method when the Repeater has created its children (Use the repeatEnd event) (You may need to use the creationComplete event).

Datagrid and AdvancedDatagrid

BentBit Report will automatically try to adjust the height of the datagrid to match the total number of rows. Bentbit Report will try to limit the amount of clipping between pages, but clipping will occur if a DataGrid / AdvancedDatagrid object spans multiple pages. Make sure you call the Report Render method after you have set the dataProvider property.