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Creating Professional Documents With ooRexx & The PrinterObject

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The RxVB.PrinterObject

And The PrinterObject = Professional Documents
Print text in any font, size, & attribute supported by your printer.
Draw vertical, horizontal, or diagonal lines with varying thickness.
Draw circles & arcs.
Paint images stock size or resized.

Rather than sending output directly to the printer, the PrinterObject sends printed output to the Windows print spooler (queue). The Windows print spooler knows how to communicate with any printer supported by Windows. Each Rexx application needs only to support one kind of printed output: the kind required by the Windows print spooler and provided by the PrinterObject.

The commands that your application sends to the PrinterObject are generic printer commands. The spooler converts these generic commands to a specific printer's commands; therefore, you only need to worry about "what" you want printed and let the spooler worry about how the output gets produced.
The RxVB.PrinterObject

Object Creation, Initialization, & Document Print

oprn = .OleObject~New('RxVB.PrinterObject')
oprn~InitializePrinter()
oprn~NewPage
oprn~PointSet(X, Y, Color)
oprn~KillDoc
oprn~EndDoc

Text Printing Methods

oprn~PrintLine(text)
oprn~PrintLineS(text)
oprn~PrintLineP(text, Position)
oprn~PrintLineT(text, Tabs)
oprn~RotatedText(text, angle)

The Following Table Was Printed With TABS

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lee</td>
<td>Peedin</td>
</tr>
<tr>
<td>Leeanderthal</td>
<td>Peedin</td>
</tr>
</tbody>
</table>

The Following Table Was Printed With POSITION

<table>
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<tr>
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Drawing & Image Printing Methods

oprn~DrawLine(StartX, StartY, EndX, EndY)
oprn~DrawLineC(StartX, StartY, EndX, EndY, Color)
oprn~DrawCircle(CenterX, CenterY, Radius)
oprn~DrawCircleC(CenterX, CenterY, Radius, Color)
oprn~DrawArc(CenterX, CenterY, Radius, Start, End)
oprn~DrawArcC(CenterX, CenterY, Radius, Start, End, Color)
Utility Methods

\texttt{aColor = oprn\_ConvertToRGB(Red,Green,Blue)}

\texttt{image\_array = oprn\_Dimensions(anImage)}

\texttt{Image\_Width = image\_array[1]}
\texttt{Image\_Height = image\_array[2]}

\texttt{cap\_array = oprn\_GetCaps}

\texttt{dpiX = cap\_array[1]}
\texttt{dpiY = cap\_array[2]}
\texttt{Margin\_Left = cap\_array[3]}
\texttt{Margin\_Top = cap\_array[4]}
\texttt{Print\_Area\_Horz = cap\_array[5]}
\texttt{Print\_Area\_Vert = cap\_array[6]}
\texttt{Physical\_Width = cap\_array[7]}
\texttt{Physical\_Height = cap\_array[8]}
The RxVB.PrinterObject

Attributes "Set"

oprn~AppTitle = Your Document Name
oprn~ColorMode = 1-Monochrome 2-Color
oprn~Copies = Number Of Copies To Print
oprn~CurrentX = The Desired X Position
oprn~CurrentY = The Desired Y Position
oprn~DrawWidth = Weight (in pixels) Of Lines And Circles
oprn~Duplex = aValue
  1 = Single sided using current orientation
  2 = Double sided using a horizontal turn
  3 = Double sided using a vertical turn
oprn~FontBold = .true OR .false
oprn~FontItalic = .true OR .false
oprn~FontName = Any Font Supported By Your Printer
oprn~FontSize = Any Size Supported By The Font & Your Printer
oprn~StrikeThru = .true OR .false
oprn~FontUnderLine = .true OR .false
oprn~ForeColor = Any Color Created With ConvertToRGB
oprn~Orientation = 1=Portrait 2=LandScape
oprn~PaperBin = aValue
  1 = Upper Bin
  2 = Lower Bin
  3 = Middle Bin
  4 = Wait For Manual Insertion Of Each Sheet
  5 = Envelops From Envelop Feeder
  6 = Envelops From Envelop Feeder, But Wait For Manual Insertion
  7 = Default
  8 = Paper From Tractor Feed
  9 = Small Paper Bin
 10 = Large Paper Bin
 11 = Large Capacity Feeder
 14 = Attached Cassette
The RxVB.PrinterObject

Attributes "Set" (Continued)

oprn~PrintQuality = aValue
-1 = Draft Resolution
-2 = Low Resolution
-3 = Medium Resolution
-4 = High Resolution

Attributes "Get"

curX = oprn~CX
curY = oprn~CY
page_number = oprn~PageNo
printer_name = oprn~PrName
version = oprn~Ver

Points To Remember About CurrentX & CurrentY

<table>
<thead>
<tr>
<th>Method</th>
<th>CurrentX</th>
<th>CurrentY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrintLine</td>
<td>Back To 0</td>
<td>Advances</td>
</tr>
<tr>
<td>PrintLines/P/T</td>
<td>End Of Text</td>
<td>No Advance</td>
</tr>
<tr>
<td>PaintPicture/R</td>
<td>Back To 0</td>
<td>No Advance</td>
</tr>
<tr>
<td>DrawLine/C</td>
<td>End Point of Line</td>
<td>End Point of Line</td>
</tr>
<tr>
<td>DrawCircle/C</td>
<td>Center Of Circle</td>
<td>Center Of Circle</td>
</tr>
<tr>
<td>DrawArc/C</td>
<td>Center Of Arc</td>
<td>Center Of Arc</td>
</tr>
<tr>
<td>NewPage</td>
<td>Back To 0</td>
<td>Back To 0</td>
</tr>
<tr>
<td>RotatedText</td>
<td>No Change</td>
<td>No Change</td>
</tr>
</tbody>
</table>

The Code That Created Your Badge

As time permits, we'll look at the PrinterObject code used to print the Symposium badges.