

Tall in the Center

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using System;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Windows.Forms;

class FontMenuForm: Form
{
protected string strText = "Tall in the Center";
protected Font font = new Font("Times New Roman", 24);

public static void Main()
{
Application.Run(new FontMenuForm());
}
public FontMenuForm()
{
ResizeRedraw = true;
}
protected void DoPage(Graphics grfx, Color clr, int cx, int
cy)
{
GraphicsPath path = new GraphicsPath();
float fFontSize = PointsToPageUnits(grfx, font);

path.AddString(strText, font.FontFamily, (int) font.Style,
fFontSize, new PointF(0, 0), new StringFormat());

RectangleF rectf = path.GetBounds();

path.Transform(new Matrix(1, 0, 0, 1,
-(rectf.Left + rectf.Right) / 2,
-(rectf.Top + rectf.Bottom) / 2));
rectf = path.GetBounds();
PointF[] aptf = path.PathPoints;
```

```
for (int i = 0; i < aptf.Length; i++) aptf[i].Y *= 2 *
(rectf.Width - Math.Abs(aptf[i].X)) / rectf.Width; path = new
GraphicsPath(aptf, path.PathTypes); grfx.TranslateTransform(cx
/ 2, cy / 2); grfx.FillPath(new SolidBrush(clr), path); }
public float GetAscent(Graphics grfx, Font font) { return
font.GetHeight(grfx) *
font.FontFamily.GetCellAscent(font.Style) /
font.FontFamily.GetLineSpacing(font.Style); } public float
GetDescent(Graphics grfx, Font font) { return
font.GetHeight(grfx) *
font.FontFamily.GetCellDescent(font.Style) /
font.FontFamily.GetLineSpacing(font.Style); } public float
PointsToPageUnits(Graphics grfx, Font font) { float fFontSize;
if (grfx.PageUnit == GraphicsUnit.Display) fFontSize = 100 *
font.SizeInPoints / 72; else fFontSize = grfx.DpiX *
font.SizeInPoints / 72; return fFontSize; } } [/csharp]
```