Subject: Qtf and drawing
Posted by pivica on Wed, 15 Feb 2006 19:55:38 GMT
View Forum Message <> Reply to Message

Here is situation. I have some input data and then some calculation and some output data. And on the end I generate some Qtf text and all is very nice and good looking:))
But now I want to generate some images, based on calculated data, and put them in qtf document. After some investigation in uppsrc I figure a way how to generate simple png image in qtf:

```
String GenerateQtfImage() const
{
 int w = 1;
 int dist = 400;
 const Point p1(0, 0);
 const Point p2(dist, 0);
 const Point p3(dist, dist);
 const Point p4(0, dist);

 Size simg(p3);
 DrawingDraw dw(simg);

 for(int i = 0; i < 10; i++)
  dw.DrawLine(dist/2, dist/2,
            int(dist/2 + dist/2 * sin(i * M_PI / 10)),
            int(dist/2 + dist/2 * cos(i * M_PI / 10)),
            w, SLtGray);

 Size sz = dw.GetTextSize("DRAWING", Courier(dist/5).Italic());
 dw.DrawText((p2.x - sz.cx) / 2, (p3.y - sz.cy) / 2, "DRAWING", Courier(dist/5).Italic());

 int scale = 4;
 Image img (dist/scale, dist/scale, dw.GetResult(), SWhite());

 String qtfimg;
 {
  RichPara::CharFormat cformat;
  cformat. Face(Font::COURIER).Height(dist/20);

  // What's this for??
  /*Size size = dw.Dots() ? img.GetSize()
  : iscale(size, Size(DOTS_PER_METER_INT, DOTS_PER_METER_INT),
GetPixelsPerMeter(draw));*/

  RichPara para;// rich paragraf

  para.Cat(RichObject("PNG",
```

```
            PngEncoder().SaveImage(img),
            img.GetSize()
            )
    , cformat);

  RichText rtext;
  rtext.Cat(para);
  qtfimg = BodyAsQTF(rtext);
 }
 return qtfimg;
}
```

Now this stuff is working, but is this a good way?
Also I have some problem with resolution when changing scale parameter. With 1 image is looking good, but when I raise scale (2,4,..) image is losing resolution.

What I need is to generate images for pie diagram and gauss distribution diagram. Maybe it's better to use Geom package for this?

One more question. There is DrawArc method for drawing arc, but how to fill arc with some color?
