Subject: SvgDraw
Posted by kodos on Sat, 15 Mar 2008 17:17:57 GMT
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Hi,

I have written a SvgDraw class to write SVG files. The most common features of the Draw class are supported right now. Credits also have to go to mrjt for some help .

If I get a test case for features that aren't implemented yet, I will try to implement them .

Simple example:

SvgDraw draw(450, 450);
draw.DrawText(10, 10, "Hello World", Roman(30).Bold());
SaveFile(_fileName + ".svg", draw.Finish());

Changelog:

19 March 2008:
   - Fixed some TODOs around clipping and offset
   - Added SVGZ support. (Call Finish(true))
   - Added some CSS in the header of the file to reduce the size of bigger images.

File Attachments
1) SvgDraw.7z, downloaded 445 times

Subject: Re: SvgDraw
Posted by mirek on Tue, 18 Mar 2008 21:31:28 GMT
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300 lines to get SVG output, not bad

What about these TODOs?

IsPainting is simple one, just make it return true, but others will need some sort of svg implementation...

Mirek

Subject: Re: SvgDraw
Posted by kodos on Tue, 18 Mar 2008 22:06:28 GMT
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Most of these TODOs I don't know what they should do, so I need an explanation or a test case to implement these

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Subject: Re: SvgDraw
Posted by mirek on Wed, 19 Mar 2008 08:40:55 GMT
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I see

bool SvgDraw::ExcludeClipOp(const Rect& r)

Removes the r from current painting clip - means anything you draw inside r will not be drawn.

bool SvgDraw::IntersectClipOp(const Rect& r)

Painting clip will be intersection of current and r.

Rect SvgDraw::GetClipOp() const

You should return minal bounding rect for current clip. Anyway, returning Rect(-INT_MAX, -INT_MAX, INT_MAX, INT_MAX) is OK as well.

The rest can wait. However, the real question: Does SVG embed fonts? IMO, it should, just like PDF. In PdfDraw, 95% of code is dealing with this

Mirek

Subject: Re: SvgDraw
Posted by kodos on Thu, 20 Mar 2008 17:31:24 GMT
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Thanks for the info
I updated the first post.

luzr wrote on Wed, 19 March 2008 09:40However, the real question: Does SVG embed fonts? IMO, it should, just like PDF.

It is possible to embed fonts in SVG but:
1) I have written this for generating images for the web, and with fonts in the file, the file size grows very fast.
2) I haven't found an example which actually works in any viewer I have (Firefox3 beta, Opera 9.5 beta, Incsape)

Subject: Re: SvgDraw
Posted by mirek on Fri, 21 Mar 2008 10:24:39 GMT
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kodos wrote on Thu, 20 March 2008 13:31Thanks for the info
I updated the first post.

luzr wrote on Wed, 19 March 2008 09:40However, the real question: Does SVG embed fonts?
IMO, it should, just like PDF.

It is possible to embed fonts in SVG but:
1) I have written this for generating images for the web, and with fonts in the file, the file size
grows very fast.
2) I haven't found an example which actually works in any viewer I have (Firefox3 beta, Opera 9.5
beta, Incsape)

OK.

Hm, maybe the right policy is to convert glyphs to curves, but I guess that is far beyond what we
can do now

Mirek

Subject: Re: SvgDraw
Posted by kodos on Sat, 22 Mar 2008 14:05:09 GMT
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luzr wrote on Fri, 21 March 2008 11:24Hm, maybe the right policy is to convert glyphs to curves,
but I guess that is far beyond what we can do now

It's possible but then the file will be huge