QGIS Application - Bug report #3224
SVG export scales page content (but not page size) to 333.3% of what it should be.

2010-11-16 09:25 PM - Alister Hood

Status:	Closed			
Priority:	Low			
Assignee:	Marco Hugentobler			
Category:				
Affected QGIS version:		**Regression?:**	No	
Operating System:	Windows	**Easy fix?:**	No	
Pull Request or Patch supplied:		**Resolution:**	fixed	
Crashes QGIS or corrupts data:		**Copied to github as #:**	13284	

Description

- Create a composer layout and add a map to it.
- Export as SVG
- Open the SVG in a browser - you will only see the top corner of the map.
- Open the SVG in inkscape - you will see that the page *contents* (map, north point etc) are all scaled to 333.3% of the size that they should be, but the *page* is the correct size.

N.B. I'm using the Windows QGIS from the osgeo installer - I don't know if the bug is also present on other platforms.

History

#1 - 2010-11-17 01:03 AM - Giovanni Manghi

If I'm not wrong, the problems with svg export in the print composer are well know and are not about QGIS. It should be a QT bug. If I remember well a ticket like this was already filed, please have a look, also among already closed ones.

#2 - 2010-11-17 04:04 AM - Alister Hood

Several other bugs have been filed about svg export, but not this one.

#3 - 2010-11-25 02:16 PM - Alister Hood

Oh, I see.
It isn't always 333%.

The SVG content is being scaled according to the selected "Quality".
It is the correct size if this is set to 90 dpi. (I previously had it set to 300 dpi:
300/90 = 3.33)

#4 - 2010-11-25 11:25 PM - Marco Hugentobler

If you open it with inkscape, you see that the exported size is in pixels and should be correct (of course the pixel size depends on the dpi).

Is there a setting in inkscape to set the dpi of the document? It seems to draw the paper size based on screen dpi (usually around 90). But this is not suitable for printing.

#5 - 2010-11-27 04:31 PM - Alister Hood

I'm pretty sure Inkscape is not the problem. Try this:

- set the Quality to 300dpi

- export as svg

- open the svg in a web browser

You will only see the top left corner of the svg.

#6 - 2010-12-14 05:16 AM - JD -

I can confirm this bug on QGIS 1.5 and Inkscape 0.47 on Kubuntu 10.04.

It is definitely the SVG export from Quantum, because looking inside a simple SVG, every <g> node has the attribute:

transform="matrix(11.8081,0,0,11.8081,0,0)" if it exported at a quality of 300 DPI, and transform="matrix(23.619,0,0,23.619,0,0)" for 600 DPI

#7 - 2010-12-14 07:59 AM - JD -

Playing around with a quick Qt 4.6.0 test app, it seems that the scale issue can be fixed by either setting the source and target areas to be the same, or by setting the viewBox explicitly. The former seems to not scale text properly, and the latter can be achieved by adding:

    generator.setSize(QSize(width, height));
    generator.setViewBox(QRect(0, 0, width, height)); //<-- Add this line
    generator.setResolution(mComposition->printResolution()); //because the rendering is done in mm, convert the dpi

#8 - 2010-12-14 08:21 AM - Marco Hugentobler

- Resolution set to fixed

- Status changed from Open to Closed

Applied in commit:3a48287f (SVN r14911). Thanks!

Files

mrt_300.svg	4.32 KB	2010-12-14	JD -
mrt_600.svg	4.29 KB	2010-12-14	JD -