QGIS Application - Bug report #159
SVG export doesn't crop layers to page size

2006-06-25 02:50 AM - yajcolin-nospam-free-fr -

Status:	Closed		
Priority:	Low		
Assignee:			
Category:	Map Composer/Printing		
Affected QGIS version:	master	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	up/downstream
Crashes QGIS or corrupts data:		**Copied to github as #:**	10218

Description

if I export a map in svg and if I zoomed in this map, svg export wil export all the map, not only the extended zoom.

E.g. : I get a map of my country. I zoom in a county (to get only the north of my country for instance). The svg export get all the map, not just the county ! It can be good to "crop" all the rest of the map unnecessary.

Yves

History

#1 - 2006-07-31 04:14 AM - Gavin Macaulay -

I can explain why this is happening, but don't have a solution for 0.8.

If an item is visible on the map, even just a small part of it, qgis draws the whole item. The svg writing part of Qt does the same, and uses a clip rectangle in svg to trim away the unwanted bits. From your example it looks like the large red shape is a single polygon, and a small part of that is included in the visible area.

It could be possible to use the existing trimming ability of qgis (originally there to work-around a problem X11 displays) to trim the svg output, but this would be a significant change that we wouldn't like to put in 0.8 - perhaps 0.9, hence I'll move this bug's milestone to 0.9

#2 - 2007-07-21 09:07 PM - Tim Sutton

Changed to minor under the following scheme:

  - blocker - bugs that should block the release. Since we are going to release pretty much 'come what may' I would like no bugs
  - allocated to this category without consultation with me and / or PSC
  - critical - bugs that cause the application to crash or corrupt data
  - major - application features that do not function at all
  - **minor** - features that function but imerfectly e.g. labels placing incorrectly
  - trivial - gui useability issues or small issues with the documentation, install notes etc.

#3 - 2008-08-23 09:09 PM - gjm -

An update on this bug:

The svg implementation in Qt (v4.4.0 when I last checked) only supports the static features of SVG 1.2 Tiny. This doesn't include clipping of shapes, which is the subject of this ticket. There is a Qt bug filed for this (204966), but no indication of when it will be resolved.

#4 - 2008-11-29 04:18 AM - Brendon Wolff-Piggott -

Checked this in QGIS 1.0.0 Preview II. Confirmed this problem still exists.

#5 - 2009-04-28 01:02 PM - Paolo Cavallini

The bus seems still open upstream. Could someone check with Qt 4.5? The QGIS version should have little relevance. Thanks.

#6 - 2009-06-29 05:03 AM - Giovanni Manghi

Since version 1.1 qgis shows this message:

"The SVG export function in Qgis has several problems due to bugs and deficiencies in the Qt4 svg code. In particular, there are problems with layers not being clipped to the map bounding box. If you require a vector-based output file from Qgis it is suggested that you try printing to [[PostScript]] if the SVG output is not satisfactory."

Not a qgis issue. Closing?

#7 - 2009-07-06 07:13 AM - Steven Bell -

Personally, I would suggest leaving it open. Although the problem stems from a Qt deficiency, it's possible to work around it with code in QGIS. I vaguely recall that there may have been code to do this which was removed in the port to Qt 4.

#8 - 2009-07-06 02:26 PM - gjm -

I'd also suggest leaving it open. It falls under the category of 'not our fault', but I think it's useful to have it flagged here, if only to remind us of the problem (and someone might fix it if it remains open in trac).

#9 - 2009-07-06 02:49 PM - Giovanni Manghi

Ok, for me, pushing milestone to 1.2.0

#10 - 2011-12-16 01:59 PM - Giovanni Manghi

- Target version changed from Version 1.7.0 to Version 1.7.4

#11 - 2012-04-16 06:22 AM - Paolo Cavallini

- Affected QGIS version set to master
- Target version changed from Version 1.7.4 to Version 1.8.0
- Crashes QGIS or corrupts data set to No

#12 - 2012-09-04 12:03 PM - Paolo Cavallini

- Target version changed from Version 1.8.0 to Version 2.0.0

#13 - 2014-03-05 06:35 PM - Evan Derickson

Since the upstream bug (now located here) is marked as Won't Fix, it would seem that a workaround is the only remaining option.

#14 - 2014-04-06 06:02 AM - Jürgen Fischer

- Category changed from 33 to Map Composer/Printing

#15 - 2014-06-22 12:22 AM - Nyall Dawson

- Assignee deleted (Gavin Macaulay -)

- Target version deleted (Version 2.0.0)

- Resolution set to up/downstream

- Pull Request or Patch supplied set to No

#16 - 2014-07-30 06:20 PM - Evan Derickson

Since the bug is marked as Won't Fix upstream, I disagree with the resolution being marked as upstream. This will need to be fixed in QGis because it's outside the scope of Qt.

#17 - 2014-07-30 08:36 PM - Nyall Dawson

This bug is still active: https://bugreports.qt-project.org/browse/QTBUG-23200

#18 - 2014-07-31 09:21 AM - Giovanni Manghi

- Operating System deleted (All)

- Status info deleted (0)

#19 - 2014-07-31 09:07 PM - Evan Derickson

The issue linked in comment 17 appears to be a duplicate of the issue linked in comment 13. The latter is marked as Out of Scope, and the text of the former supports this.

From the bug report:

> *Deferred:*
>
> *Fixing this bug would require implementing features of the SVG 1.1 Clip Module [1], and we currently only support SVG 1.2 Tiny.*
> *A work-around is to use the viewBox property of the QSvgGenerator to set a clip manually (new in 4.5). While this will not clip individual paint operations it will clip the resulting document to a given rectangle.*

[1] http://www.w3.org/TR/SVG11/masking.html#clip-mod

#20 - 2016-11-28 01:36 PM - Alessandro Sarretta

- File SVG_export_options_123.png added

Testing this issue with QGIS version 2.18.0, code revision d8f9d2e, it seems that some workaround has been implemented, because when exporting the svg, an "SVG export options" window appears (see figure).
Anyway, the exported svg is still not perfect, because its extension exceed the extension of the features included in the layout.

#21 - 2017-05-01 01:09 AM - Giovanni Manghi

- Easy fix? set to No

- Regression? set to No

#22 - 2018-02-24 10:25 PM - Alessandro Sarretta

Tested with the 3.1.0-Master f35745f

The output has the same behaviour as described in comment 20.

As an addition, below I copied the new active links to the two Qt bugs referred in comments 13 and 17 (old URLs are no more active):

- https://bugreports.qt.io/browse/QTBUG-1865
- https://bugreports.qt.io/browse/QTBUG-23200

#23 - 2018-02-25 05:42 PM - Giovanni Manghi

- Description updated

- Status changed from Open to Closed

Closing as it is an upstream bug.

Files

bug_qgis_svg.jpg	219 KB	2006-06-25	yjacoli-nospam-free-fr -
SVG_export_options_123.png	27.2 KB	2016-11-28	Alessandro Sarretta