

## QGIS Application - Bug report #8646

### Python QgsRendererV2Widget not displaying on Windows 64 build

2013-09-22 01:59 PM - Chris Crook

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Python plugins	
<b>Affected QGIS version:</b> 2.4.0	<b>Regression?:</b> No
<b>Operating System:</b> All	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b> No	<b>Resolution:</b> end of life
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 17377

#### Description

I maintain the VectorFieldRenderer widget, which implements a python custom renderer. The QGIS 2.0 version is working on Ubuntu, but on windows 64 (using standalone installer), when the renderer is selected in the Properties | Style dialog, the renderer configuration widget is not displayed, and instead there is just a message "This renderer doesn't implement a graphical interface".

I've build a minimal custom renderer (attached as LayerTest.zip), and that behaves in the same way, so I suspect that there is an issue in 64bit build (note - I haven't tested other windows builds).

Steps to replicate:

- 1) Install attached LayerTest plugin to <user home>/.qgis2/python/plugins
- 2) Start QGIS
- 3) Open plugin manager and enable LayerTest plugin
- 4) Create a new point vector layer
- 5) Make the new layer the current layer and open the Style tab of the layer Properties dialog
- 6) Select the LayerTest renderer type

The dialog box should show "Dummy widget for layer <layer name>".

It does this on ubuntu 12.04. On windows 64bit build it displays the error message above (This renderer doesn't implement a graphical interface).

#### Associated revisions

**Revision 86ddc49a - 2013-10-24 04:40 PM - Marco Bernasocchi**

Force compilers to generate vtable for QgsRendererV2Metadata

Fix #8646

Fix #5170

Explanation see: <http://trac.osgeo.org/geos/ticket/535#comment:11>

#### History

**#1 - 2013-10-24 07:41 AM - Anonymous**

- Status changed from Open to Closed

Fixed in changeset commit:"86ddc49acf3599e6d959f462da1d870dd6ba148d".

**#2 - 2013-10-24 07:43 AM - Matthias Kuhn**

Hi, can somebody verify, if this really solves the issue and re-open if appropriate?

And thanks to @mbernasocchi for finding this solution.

**#3 - 2013-10-24 11:29 AM - Chris Crook**

Subtle indeed - great work. ATM I don't have a windows build environment, so can't confirm. But, in anticipation of this resolving the issue, thanks!

**#4 - 2013-11-12 05:53 AM - Andy Aschwanden**

*- Status changed from Closed to Reopened*

Hi,

While I was trying to use the VectorFieldRenderer widget mentioned above, I've noticed that this issue still exists on QGIS commit:7c98970 (nightly build from <http://qgis.dakotacarto.com/>, Mac OS X 10.8.5). I've also tested the minimal example in TestLayer.zip, with the same result, it shows

"This renderer doesn't implement a graphical interface"

Thanks.

**#5 - 2014-01-30 11:34 PM - Paolo Cavallini**

*- Target version changed from Version 2.0.0 to Future Release - High Priority*

**#6 - 2014-07-16 05:50 PM - Chris Crook**

Still seems to be an issue in version 2.4 on Windows 64bit

**#7 - 2014-07-16 05:51 PM - Chris Crook**

*- Affected QGIS version changed from 2.0.1 to 2.4.0*

**#8 - 2014-08-29 12:19 PM - Chris Crook**

*- Operating System changed from Windows to All*

*- Priority changed from Normal to High*

I've just upgraded Ubuntu to version 14.04 and this issue is now present on Ubuntu as well. So it occurs in 64 bit environments generally - windows, ubuntu, mac. This occurs both in the released version and building from source. I assume that this is due to a new version of SIP with the Ubuntu version upgrade.

**#9 - 2014-08-29 12:25 PM - Chris Crook**

The underlying issue relates to python subclasses of C++ classes. When the python object is saved in C++ code (eg in a registry), it loses the python bindings to methods that are over-ridden in the python class- they are not used when the object is called from C++, and instead the C++ base class implementations of the methods are used.

This means that python implementations of C++ base classes (renderers, custom layers, etc) will generally not work.

**#10 - 2014-08-29 12:26 PM - Chris Crook**

- OS version changed from 7 (64 bit) to 64 bit

**#11 - 2014-08-29 03:30 PM - Jürgen Fischer**

Despite the /Transfer/ annotation on QgsRendererV2Registry::addRenderer the LayerMetadata instance is deleted. If the metadata is assigned to a member variable of Plugin to avoid it's destruction the GUI page appears.

**#12 - 2014-10-25 01:53 AM - Jürgen Fischer**

- Priority changed from High to Normal

**#13 - 2014-10-25 01:54 AM - Jürgen Fischer**

- Category changed from Build/Install to Python plugins

**#14 - 2017-05-01 01:09 AM - Giovanni Manghi**

- Regression? set to No

- Easy fix? set to No

**#15 - 2019-03-09 03:11 PM - Giovanni Manghi**

- Resolution set to end of life

- Status changed from Reopened to Closed

End of life notice: QGIS 2.18 LTR

Source:

<http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/>

## Files

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LayerTest.zip	4.86 KB	2013-09-22	Chris Crook
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