QGIS Application - Bug report #10980
Can't set new map extent after changed layer visibilty

2014-07-30 01:18 AM - zicke -

Status:	Closed		
Priority:	Severe/Regression		
Assignee:			
Category:	Python plugins		
Affected QGIS version:	master	**Regression?:**	No
Operating System:	Ubuntu	**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	invalid
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	19323

Description

After adding a layer with python and change its visibility, I cannot change the map extent properly. It seems that the map canvas zooms to full extent (or latest added layer):

1. add layer

```
root = QgsProject.instance().layerTreeRoot()
QgsMapLayerRegistry.instance().addMapLayer(my_layer)
my_layer_node = root.findLayer(my_layer.id())
my_layer_node.setVisible(Qt.Checked)
```

2. set map extent

```
rect = another_layer.extent()
rect.scale(5)
self.iface.mapCanvas().setExtent(rect)
self.iface.mapCanvas().refresh()
```

Map extent is wrong and is set to the extent of the newly added layer. Without my_layer_node.setVisible(Qt.Checked) it works. The same happens when you add a layer explicit:

1. add layer

```
QgsMapLayerRegistry.instance().addMapLayer(my_layer, False)
my_layer_node = root.addLayer(my_layer)
```

2. set map extent

```
rect = another_layer.extent()
rect.scale(5)
self.iface.mapCanvas().setExtent(rect)
self.iface.mapCanvas().refresh()
```

-> Wrong map extent (since the layer is visible by default).

History

#1 - 2014-07-30 01:21 AM - Paolo Cavallini

- Subject changed from Can't set new map pextent after changed layer visibilty to Can't set new map extent after changed layer visibilty

#2 - 2014-07-30 04:47 AM - Giovanni Manghi

- Status changed from Open to Feedback

what qgis version? was this issue true also on other (older) qgis releases?

#3 - 2014-07-30 07:00 AM - zicke -

Giovanni Manghi wrote:

> *what qgis version? was this issue true also on other (older) qgis releases?*

Master. (see also affected version combobox).

No, It worked on some 2.1 master so I guess it was introduced with the legend refactoring.

#4 - 2014-07-30 07:34 AM - Giovanni Manghi

- Priority changed from Normal to Severe/Regression

#5 - 2014-10-20 10:36 AM - Giovanni Manghi

- Status changed from Feedback to Open

#6 - 2014-10-21 05:32 AM - Martin Dobias

Could you provide more details regarding how you run these snippets? Setting of canvas extents works for me when used from python console.

Is the other layer "another_layer" also used in the layer tree? In case the "my_layer" layer is the first one to be added to the layer tree, the auto-setup will take effect (deferred) and it will set extent + CRS automatically. Maybe that's why it gives you the impression that the extent is wrong?

#7 - 2014-10-21 02:31 PM - Jürgen Fischer

- Status changed from Open to Feedback

#8 - 2015-02-15 05:35 AM - Jürgen Fischer

- Status changed from Feedback to Closed
- Resolution set to not reproducable

closing for the lack of feedback

#9 - 2015-04-20 12:26 PM - zicke -

- Status changed from Closed to Reopened

Sorry for not giving some feedback. I used to get some email updates for my tickets but not this time. But I still have some troubles with that one. There is

not need for a second layer to reproduce it. Am adding some vector layer within a python plugin:

```
root = QgsProject.instance().layerTreeRoot()
QgsMapLayerRegistry.instance().addMapLayer(my_layer, False)
my_layer_node = root.addLayer(my_layer)

rect = my_layer.extent()
rect.scale(5)
self.iface.mapCanvas().setExtent(rect)
self.iface.mapCanvas().refresh()
```

Setting extent works.

```
root = QgsProject.instance().layerTreeRoot()
QgsMapLayerRegistry.instance().addMapLayer(my_layer)
my_layer_node = root.findLayer(my_layer.id())
my_layer_node.setVisible(Qt.Checked)

rect = my_layer.extent()
rect.scale(5)
self.iface.mapCanvas().setExtent(rect)
self.iface.mapCanvas().refresh()
```

Setting extent does not work when using .setVisible() method.

#10 - 2015-05-10 01:52 AM - Giovanni Manghi

- Resolution deleted (not reproducable)

#11 - 2015-06-01 06:18 AM - Nathan Woodrow

I can't see anything wrong here. It sets the extent for me.

#12 - 2015-06-01 06:28 AM - Giovanni Manghi

- Status changed from Reopened to Feedback

#13 - 2015-10-11 09:47 AM - Anita Graser

Cannot reproduce on OSGeo4W nightly. Setting extent works just fine.

#14 - 2015-10-21 06:25 PM - Nyall Dawson

- Resolution set to invalid

- Status changed from Feedback to Closed

Closed due to lack of feedback