QGIS Application - Bug report #17600
QgsCoordinateTransform.transform() doesn't work anymore in QGIS master

2017-12-01 11:02 AM - Cyprien Antignac

Status:	Closed			
Priority:	High			
Assignee:	Alessandro Pasotti			
Category:	Python bindings / sipify			
Affected QGIS version:	master	**Regression?:**	Yes	
Operating System:		**Easy fix?:**	No	
Pull Request or Patch supplied:	Yes	**Resolution:**	fixed/implemented	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	25497	

Description

The bug concern "QgsCoordinateTransform.transform()" in QGIS 2.99.

```
crsSrc = self.mapcanvas.mapSettings().destinationCrs().authid()
crsDest = layer.crs().authid()
if crsDest != crsSrc:
    crsSrc = QgsCoordinateReferenceSystem(crsSrc)
    crsDest = QgsCoordinateReferenceSystem(crsDest)
    box = feat.geometry().boundingBox()
    xform = QgsCoordinateTransform(crsSrc, crsDest)
    box = xform.transform(box)
self.mapcanvas.setExtent(box.buffered(50))
```

If I use a "QgsRectangle()" (box is a QgsRectangle()) in parameter, it returns "argument 1 has unexpected type 'QgsRectangle()'", it's the same thing with "QgsCoordinateTransform.transformBoundingBox()". Owever if i try with "QgsPointXY()" or X/Y coordinate it returns "Exception : unknown".

When I try to use "tranform()" in Python Console, the help section returns only 2 of the 3 possibilities ("QgsRectangle()" not appear) but the "QgsPointXY()" and X/Y coordinates possibilities don't even work.

It's a big problem for me, my plugin can't anymore reproject the rectangle to use it has zoom factor (for example : if QGIS is in EPSG:4326, I need to reproject the rectangle to EPSG:2154, if I don't, QGIS zoom in Germany but my area is in the center of France).

Associated revisions

Revision bfa857bb - 2017-12-11 12:32 PM - Alessandro Pasotti

[bugfix] Restore binding for QgsCoordinateTransform

Fixes #17600

Binding was lost in commit 10d34ece02bb765f5d9d88bb0524c909235fb0d7

History

#1 - 2017-12-02 06:27 PM - Giovanni Manghi

- Subject changed from QgsCoordinateTransform.transform() doesn't work - QGIS 2.99 to QgsCoordinateTransform.transform() doesn't work anymore in QGIS master

- Category changed from Python plugins to Python bindings / sipify

#2 - 2017-12-02 11:04 PM - Nyall Dawson

- Status changed from Open to Feedback

Something seems odd with your build or environment. Is this a custom build?

#3 - 2017-12-04 08:54 AM - Cyprien Antignac

It's not a custom build, I have install QGIS from "QGIS-OSGeo4W-2.99.0-48-Setup-x86_64.exe" to prepare my plugin to QGIS 3.0

#4 - 2017-12-04 09:49 AM - Richard Duivenvoorde

confirmed here on Debian too

running a small project with:

- crs of project different from layer

- layer active i layer manager

- one features of layer selected

then:

```
crsSrc = iface.mapCanvas().mapSettings().destinationCrs().authid()
crsSrc
crsDest = iface.mapCanvas().currentLayer().crs().authid()
crsDest
if crsDest != crsSrc:
    crsSrc = QgsCoordinateReferenceSystem(crsSrc)
    crsDest = QgsCoordinateReferenceSystem(crsDest)
    # make sure you have ONE feature selected
    box = iface.mapCanvas().currentLayer().selectedFeatures()[0].geometry().boundingBox()
    xform = QgsCoordinateTransform(crsSrc, crsDest)
    box = xform.transform(box)
    box
self.iface.mapCanvas().setExtent(box.buffered(50))
```


throws

```
Traceback (most recent call last):
  File "/usr/lib/python3.6/code.py", line 91, in runcode
    exec(code, self.locals)
  File "<input>", line 1, in <module>
  File "<string>", line 11, in <module>
TypeError: QgsCoordinateTransform.transform(): arguments did not match any overloaded call:
  overload 1: argument 1 has unexpected type 'QgsRectangle'
  overload 2: argument 1 has unexpected type 'QgsRectangle'
```


#5 - 2017-12-04 10:00 AM - Giovanni Manghi

- Operating System deleted (Windows 10)

- Status changed from Feedback to Open

#6 - 2017-12-04 10:32 AM - Cyprien Antignac

I've retry "transform()" with "QgsPointXY" and finally it work, I think it's a personal mistake in this case. But I still have not succeeded with "QgsRectangle()".

I've also retry with transformBoundingBox() :

```
it = layer.getFeatures(request)
extent = None
for x in it:
    extent = x.geometry().boundingBox()
if extent:
    crsSrc = self.mapcanvas.mapSettings().destinationCrs().authid()
    crsDest = layer.crs().authid()
if crsDest != crsSrc:
    crsSrc = QgsCoordinateReferenceSystem(crsSrc)
    crsDest = QgsCoordinateReferenceSystem(crsDest)
    xform = QgsCoordinateTransform(crsSrc, crsDest)
    extent = xform.transformBoundingBox(extent)
self.mapcanvas.setExtent(extent.buffered(50))
self.mapcanvas.refresh()
```

And it returns :

```
Traceback (most recent call last):
  File "C:/Users/Cyprien/AppData/Roaming/QGIS/QGIS3/profiles/default/python/plugins\gedopi\stationDialogs.py", line 801, in zoomStation
    extent = xform.transformBoundingBox(extent)
Exception: unknown

Version de Python : 3.6.0 (v3.6.0:41df79263a11, Dec 23 2016, 08:06:12) [MSC v.1900 64 bit (AMD64)]
Version de QGIS : 2.99.0-Master Master, 0717835f79
```

#7 - 2017-12-11 11:12 AM - Alessandro Pasotti

- Assignee set to Alessandro Pasotti

#8 - 2017-12-11 12:36 PM - Alessandro Pasotti

- Status changed from Open to In Progress

- Pull Request or Patch supplied changed from No to Yes

PR: https://github.com/qgis/QGIS/pull/5843

#9 - 2017-12-11 02:15 PM - Anonymous

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|bfa857bb9777ea4f06e0008eb2459bc2100dba4d.

#10 - 2018-02-22 11:45 AM - Giovanni Manghi

- Resolution set to fixed/implemented