

QGIS Application - Bug report #20752

Qgis 3.4.1 crashes when accessing methods of feature

2018-12-07 01:34 PM - Anja Sen

Status: Closed	
Priority: High	
Assignee:	
Category: Python bindings / sipify	
Affected QGIS version: 3.4.1	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied: No	Resolution:
Crashes QGIS or corrupts data: Yes	Copied to github as #: 28572

Description

I am trying to implement a method to edit features in different geometry type. To start with, I found following example code from the book "BUILDING MAPPING APPLICATIONS WITH QGIS", but it always crashes when I call the method of self.feature in the function canvasMoveEvent. In function canvasPressEvent, it seems to work fine.

I tried to execute the code in a clean profile, but it still crashes. Then I tried with QGIS 2.18 and it worked there. I have attached the report below.

```
@class MovePointTool(QgsMapToolIdentify):
    def __init__(self, mapCanvas, layer):
        QgsMapToolIdentify.__init__(self, mapCanvas)
        self.setCursor(Qt.CrossCursor)
        self.layer = layer
        self.dragging = False
        self.feature = None
    def canvasPressEvent(self, event):
        found_features = self.identify(event.x(), event.y(),
            [self.layer], self.TopDownAll)
        if len(found_features) > 0:
            self.dragging = True
            self.feature = found_features[0].mFeature
            print (self.feature.id())
        else:
            self.dragging = False
            self.feature = None
    def canvasMoveEvent(self, event):
        if self.dragging and self.feature:
            point = self.toLayerCoordinates(self.layer,
                event.pos())
            geometry = QgsGeometry.fromPointXY(point)
            print (self.feature.isValid())
            print (self.feature.id())
            self.layer.changeGeometry(self.feature.id(), geometry)
            self.canvas().refresh()
    def canvasReleaseEvent(self, event):
        self.dragging = False
        self.feature = None
```

```
tool = MovePointTool(iface.mapCanvas(), iface.activeLayer())
iface.mapCanvas().setMapTool(tool)
```

@

Crash Report:

Crash ID: 46eec519cad6876ebf2347eb73a9fc7f3df167fa

Stack Trace

QgsFeature::isValid :
PyInit__core :
PyMethodDef_RawFastCallKeywords :
PyMethodDef_RawFastCallKeywords :
PyEval_EvalFrameDefault :
PyFunction_FastCallDict :
PyMethodDef_RawFastCallDict :
PyObject_Call :
PyInit__sip :
PyInit__gui :
QgsMapCanvas::mousePressEvent :
QWidget::event :
QFrame::event :
QGraphicsView::viewportEvent :
QCoreApplicationPrivate::sendThroughObjectEventFilters :
QApplicationPrivate::notify_helper :
QApplication::notify :
QgsApplication::notify :
QCoreApplication::notifyInternal2 :
QApplicationPrivate::sendMouseEvent :
QSizePolicy::QSizePolicy :
QSizePolicy::QSizePolicy :
QApplicationPrivate::notify_helper :
QApplication::notify :
QgsApplication::notify :
QCoreApplication::notifyInternal2 :
QGuiApplicationPrivate::processMouseEvent :
QWindowSystemInterface::sendWindowSystemEvents :
QEventDispatcherWin32::processEvents :
TranslateMessageEx :
TranslateMessage :
QEventDispatcherWin32::processEvents :
qt_plugin_query_metadata :
QEventLoop::exec :
QCoreApplication::exec :
main :
BaseThreadInitThunk :
RtlUserThreadStart :

QGIS Info

QGIS Version: 3.4.1-Madeira
QGIS code revision: 383851c597
Compiled against Qt: 5.11.2
Running against Qt: 5.11.2
Compiled against GDAL: 2.3.2

Running against GDAL: 2.3.2

System Info

CPU Type: x86_64

Kernel Type: winnt

Kernel Version: 6.1.7601

History

#1 - 2018-12-07 03:56 PM - Giovanni Manghi

- Priority changed from Normal to High

- Category changed from Editing to Python bindings / sipify

#2 - 2019-01-28 03:40 PM - Hugo Mercier

Reproduced on 3.4.4

I guess this is because you are storing a reference to a QgsFeature that sometimes no longer exist when you use it.

```
self.feature = found_features[0].mFeature
```

Copying the feature seems to fix the problem

```
self.feature = QgsFeature(found_features[0].mFeature)
```

#3 - 2019-01-28 03:40 PM - Hugo Mercier

- Status changed from Open to Closed