

QGIS Application - Bug report #14217  
Segfault on QgsMapCanvas() creation

2016-02-02 07:49 AM - D. Hiepler

<b>Status:</b>	Closed	
<b>Priority:</b>	High	
<b>Assignee:</b>		
<b>Category:</b>	Python plugins	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	No	<b>Resolution:</b> invalid
<b>Crashes QGIS or corrupts data:</b>	Yes	<b>Copied to github as #:</b> 22218

Description

I modified the example code from [http://docs.qgis.org/testing/en/docs/pyqgis\\_developer\\_cookbook/canvas.html#writing-custom-map-canvas-items](http://docs.qgis.org/testing/en/docs/pyqgis_developer_cookbook/canvas.html#writing-custom-map-canvas-items) and ended up with

```
import sys
from qgis.core import QgsApplication, QgsProject
from qgis.gui import QgsMapCanvas

# install prefix - optional, if QGIS_PREFIX_PATH is set
QgsApplication.setPrefixPath('/usr', True)
# where the auth database is - optional, if QGIS_AUTH_DB_DIR_PATH is set
QgsApplication.setAuthDbDirPath('.')

# init application context
app = QgsApplication(sys.argv, False)
app.initQgis()

# Map canvas
canvas = QgsMapCanvas() # <- segfault
canvas.show()

app.exec_()

QgsApplication.exitQgis()
```

But with current master, it crashes (i suppose there's some Qt initialization missing):

```
Program received signal SIGSEGV, Segmentation fault.
0x00007ffff2e9c88c in QCursor::pos() () from /usr/lib64/qt4/libQtGui.so.4
(gdb) bt
#0  0x00007ffff2e9c88c in QCursor::pos() () from /usr/lib64/qt4/libQtGui.so.4
#1  0x00007ffff2e2fd57 in QMouseEvent::QMouseEvent(QEvent::Type, QPoint const&, Qt::MouseButton, QFlags<Qt::MouseButton>, QFlags<Qt::KeyboardModifier>) () from /usr/lib64/qt4/libQtGui.so.4
#2  0x00007ffff340bbaa in QGraphicsViewPrivate::QGraphicsViewPrivate() () from /usr/lib64/qt4/libQtGui.so.4
#3  0x00007ffff340bedf in QGraphicsView::QGraphicsView(QWidget*) () from /usr/lib64/qt4/libQtGui.so.4
#4  0x00007ffe328fa0b in QgsMapCanvas::QgsMapCanvas(QWidget*, char const*) () from /usr/lib64/libqgis_gui.so.2.13.0
#5  0x00007ffe3c7ce63 in sipQgsMapCanvas::sipQgsMapCanvas(QWidget*, char const*) ()
    from /usr/lib64/python2.7/site-packages/qgis/_gui.so
```

```
#6 0x00007ffe3c8addf in init_type_QgsMapCanvas () from /usr/lib64/python2.7/site-packages/qgis/_gui.so
#7 0x00007ffff6684733 in sipSimpleWrapper_init () from /usr/lib64/python2.7/site-packages/sip.so
#8 0x00007ffff7aae8ef in type_call () from /usr/lib64/libpython2.7.so.1.0
#9 0x00007ffff7a5b533 in PyObject_Call () from /usr/lib64/libpython2.7.so.1.0
#10 0x00007ffff7aedb8a in PyEval_EvalFrameEx () from /usr/lib64/libpython2.7.so.1.0
#11 0x00007ffff7af0ac0 in PyEval_EvalCodeEx () from /usr/lib64/libpython2.7.so.1.0
#12 0x00007ffff7af0bb9 in PyEval_EvalCode () from /usr/lib64/libpython2.7.so.1.0
#13 0x00007ffff7b0961f in run_mod () from /usr/lib64/libpython2.7.so.1.0
#14 0x00007ffff7b0a772 in PyRun_FileExFlags () from /usr/lib64/libpython2.7.so.1.0
#15 0x00007ffff7b0b877 in PyRun_SimpleFileExFlags () from /usr/lib64/libpython2.7.so.1.0
#16 0x00007ffff7b1c6da in Py_Main () from /usr/lib64/libpython2.7.so.1.0
#17 0x00007ffff747a7b0 in __libc_start_main () from /lib64/libc.so.6
#18 0x0000000000400759 in _start ()
```

## History

### #1 - 2016-02-02 07:51 AM - D. Hiepler

PS: I forgot to mention, that I modified the example code to work around #13494

### #2 - 2016-02-02 08:47 AM - Giovanni Manghi

- Target version set to Future Release - High Priority
- Priority changed from Normal to High

### #3 - 2016-06-26 04:05 AM - Matthias Kuhn

- Resolution set to invalid
- Status changed from Open to Closed

Make it a gui application and it will work:

```
app = QgsApplication(sys.argv, True)
```