QGIS Application - Bug report #17985 Huge memory leak with QgsFeature.attributes() in Python

2018-01-28 10:55 PM - Nyall Dawson

Status:	Closed		
Priority:	High		
Assignee:	Denis Rouzaud		
Category:	Python bindings / sipify		
Affected QGIS version:master		Regression?:	Yes
Operating System:		Easy fix?:	No
Pull Request or Patch supplied: Crashes QGIS or corruptesdata:		Resolution: Copied to github as	fixed/implemented s #: 25881
	https://github.com/qgis/QGIS/pull/6186	and https://github.com/qgis/QGI	<u>S/pull/6190</u>
Steps to reproduc		and <u>https://github.com/qgis/QGI</u>	<u>S/pull/6190</u>
Steps to reproduc Load a big layer v	e: vith many NULL values	and <u>https://github.com/qgis/QGI</u>	<u>S/pull/6190</u>
Steps to reproduc Load a big layer v Run the python co	e: vith many NULL values ode:	and <u>https://github.com/qgis/QGI</u>	<u>S/pull/6190</u>
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Steps to reproduc Load a big layer v Run the python co for f in iface.ad	e: vith many NULL values ode: ctiveLayer().getFeature(): s()	and <u>https://github.com/qgis/QGI</u>	<u>S/pull/6190</u>
Steps to reproduc Load a big layer v Run the python co for f in iface.ao f.attribute And watch your m	xe: with many NULL values ode: ctiveLayer().getFeature(): is() nemory go!		<u>S/pull/6190</u> e which sets list items in the loop avoids the

History

#1 - 2018-01-30 12:21 AM - Nyall Dawson

Nathan reports that the leak is also present in the QgsFeature python code - e.g. calling feature[0] or feature['my_attr'] will leak if the attribute is NULL.

To be precise - it's not technically a memory leak, it's just that Python is not garbage collecting these values.

#2 - 2018-01-30 01:00 AM - Nathan Woodrow

The following code also seems to show the issue

```
ids = set()
def leakme():
    count = 0
    for f in iface.activeLayer().getFeatures():
        a = f[4]
        ids.add(id(a))
        if count == 1000:
            break
        count += 1
```

leakme()

#3 - 2018-02-19 12:23 AM - Nathan Woodrow

@Nayll This one is fixed now isn't it?

#4 - 2018-02-19 04:58 AM - Nyall Dawson

Let me verify a few other things first - I did see evidence of another similar leak at one stage.

#5 - 2018-02-22 07:54 PM - Giovanni Manghi

- Status changed from Open to Feedback

#6 - 2018-06-08 01:58 PM - Denis Rouzaud

Nyall, can this be closed?

#7 - 2018-08-25 04:46 PM - Giovanni Manghi

Hi, what is the status of this issue?

#8 - 2018-08-25 10:18 PM - Nyall Dawson

- Resolution set to fixed/implemented

- Status changed from Feedback to Closed

Fixed