

QGIS Application - Bug report #19764

Features in memory layers are not accessible by pyQGIS scripts

2018-09-04 08:11 AM - Michael Kuerbs

Status:	Closed	
Priority:	Normal	
Assignee:	Nyall Dawson	
Category:	PyQGIS Console	
Affected QGIS version:	3.2.2	Regression?: No
Operating System:	Win 7 or Win 10	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 27589
Description		
<p>Features in memory layers are not accessible.</p> <p>QgsFeature.attributes() is a emty list []</p> <p>QgsFeature.geometry() is a emty geometry</p> <p>If I save the memory layer in a shp or something else, it works very well.</p>		

History

#1 - 2018-09-04 10:54 AM - Giovanni Manghi

- Priority changed from High to Normal
- Pull Request or Patch supplied changed from Yes to No

#2 - 2018-09-04 11:25 AM - Nyall Dawson

- Status changed from Open to Feedback

More information is required here.

#3 - 2018-09-04 11:46 AM - Michael Kuerbs

- Assignee set to Nyall Dawson

I create a memory layer with one feature included attributes.

Now I would access this Feature directly with

```
feat = layer.getFeature(0)
print(feat.attributes(), feat.geometry().asWkt()) => [] ""
```

if i work with real storage Layers the first feature is getting with layer.getFeature(0)

if it's a memory layer, the first feature is getting with layer.getFeature(1)

if i get features by iterating, it works very well

why is the index using different in case of menory layers?

#4 - 2018-09-04 11:49 AM - Nyal Dawson

Feature IDs aren't consistent across providers - they are stable within a particular layer, but won't be transferred if that layer is saved to a different format or provider.

#5 - 2018-09-04 12:02 PM - Jürgen Fischer

```
| feat = layer.getFeature(0)
```

[getFeature](#) takes a feature id and not an index. And the feature id is provider/data source specific. You shouldn't make assumptions about it other than you can address a feature with the id you got from the layer - as it might not even be safe to assume that features from the same datasource, but on different layers have the same id).

#6 - 2018-09-04 12:45 PM - Michael Kuerbs

I would like just the first feature a layer.

#7 - 2018-09-04 12:50 PM - Nyal Dawson

- Status changed from Feedback to Closed

In that case:

```
feature = next(layer.getFeatures())
```

(or better)

```
feature = next(layer.getFeatures(QgsFeatureRequest().setLimit(1)))
```