

## QGIS Application - Bug report #19764

### Features in memory layers are not accessible by pyQGIS scripts

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

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

#### 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 - Nyal Dawson

- Status changed from Open to Feedback

More information is required here.

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

- Assignee set to Nyal 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 memory 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)))
```