QGIS Application - Bug report #17181
Crash using QgsComposerAttributeTableV2 after setting columns

2017-09-21 08:09 PM - Loïc BARTOLETTI

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Python bindings / sipify		
Affected QGIS version:	2.18.13	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	invalid
Crashes QGIS or corrupts data:	Yes	**Copied to github as #:**	25080

Description

QGis crash when you use this code into the console (with a real project):

```
table = QgsComposerAttributeTableV2(iface.activeComposers()[0].composition(), False)
cols = table.columns()
newCol = QgsComposerTableColumn("test_for_crash")
newCol.setAttribute("$id")
cols.append(newCol)
table.setColumns(cols)
[i.heading() for i in table.columns()]
```

Tested on Windows 7 QGis 2.18, Debian QGis 2.14 and FreeBSD 2.18.

Seems to be a bad_alloc. Here some logs from Debian:

```
Warning: QObject::connect: Cannot connect (null)::layerModified() to QgsComposerAttributeTableV2::refreshAttributes()
Segmentation fault
```

FreeBSD show a windows with this error:

```
cxxrt::bad_alloc
```

Related issues:

Related to QGIS Application - Bug report # 17180: Atlas crash using python	**Closed**	**2017-09-21**

History

#1 - 2017-09-22 09:54 AM - Giovanni Manghi

- Status changed from Open to Feedback

Is this related to #17180 ?

#2 - 2017-09-22 10:00 AM - Loïc BARTOLETTI

No, they're different issues.

I'm working on several projects needing to use the composer and found these two bugs.

#3 - 2017-09-22 10:01 AM - Giovanni Manghi

- Status changed from Feedback to Open

Loïc BARTOLETTI wrote:

> *No, they're different issues.*
> *I'm working on several projects needing to use the composer and found these two bugs.*

thanks, so please add a description to #17180 just not leave the link to stackexchange, thanks.

#4 - 2017-09-28 09:31 AM - Jürgen Fischer

- Related to Bug report #17180: Atlas crash using python added

#5 - 2017-09-28 09:34 AM - Denis Rouzaud

- Assignee deleted (Denis Rouzaud)

#6 - 2017-09-29 01:58 AM - Nyall Dawson

- Resolution set to invalid

- Status changed from Open to Closed

Your code is a bit wrong:

```
cols = table.columns()
...
cols.append(newCol)
table.setColumns(cols)
```

table.columns() is returning a pointer to the table's columns, so any edits (such as appending columns) happens immediately. There's no need to call table.setColumns() after. This is causing the crash, because the table already has ownership of that columns object.

Admittedly, not the nicest api!