

## QGIS Application - Bug report #9772

### QgsMapSettings::setDestinationCrs() does not achieve desired effect

2014-03-12 04:51 PM - Etienne Tournigny

<b>Status:</b>	Closed	
<b>Priority:</b>	Low	
<b>Assignee:</b>	Martin Dobias	
<b>Category:</b>	Map Canvas	
<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>		<b>Resolution:</b> end of life
<b>Crashes QGIS or corrupts data:</b>		<b>Copied to github as #:</b> 18314
<b>Description</b>		
<p>since QgsMapSettings::mapRenderer() is deprecated, QgsMapRenderer::setDestinationCrs() should be replaced by QgsMapSettings::setDestinationCrs() , but it seems the implementation is not complete.</p> <p>Calls to QgsMapSettings::setDestinationCrs() have no effect on the map settings and are not propagated to the project, but calling QgsMapRenderer::setDestinationCrs() works properly.</p> <p>The following commands in the python console illustrate this:</p> <pre>iface.mapCanvas().mapSettings().destinationCrs().authid() u'EPSG:4326' crs=QgsCoordinateReferenceSystem('EPSG:3857') crs.authid() u'EPSG:3857' iface.mapCanvas().mapSettings().setDestinationCrs(crs) iface.mapCanvas().mapSettings().destinationCrs().authid() u'EPSG:4326' iface.mapCanvas().mapRenderer().setDestinationCrs(crs) iface.mapCanvas().mapSettings().destinationCrs().authid() u'EPSG:3857'</pre>		

#### History

##### #1 - 2014-03-12 04:58 PM - Jürgen Fischer

- Status changed from Open to Closed

- Resolution set to invalid

Use QgsMapCanvas::setDestinationCrs() instead of QgsMapSettings::setDestinationCrs()

##### #2 - 2014-03-12 05:40 PM - Larry Shaffer

Jürgen Fischer wrote:

| Use QgsMapCanvas::setDestinationCrs() instead of QgsMapSettings::setDestinationCrs()

While that works, I don't think you should have to do that if you already have QgsMapSettings, which should be all you need to do a render (if I understand

its implementation).

I think there should probably be `QMapCanvas::setMapSettings( const QgsMapSettings& settings )` where one can just apply built-up or manipulated `QgsMapSettings`. If not, what is the purpose of the `QMapCanvas::mapSettings()` getter then?

I've outlined this in a [recent mailing list post](#).

Etienne, the reason the following doesn't work, is because a copy of the canvas's `QgsMapSettings` is being returned, i.e. no direct access:

```
iface.mapCanvas().mapSettings().setDestinationCrs(crs)
```

### #3 - 2014-03-12 08:05 PM - Etienne Tourigny

- Status changed from *Closed* to *Reopened*

the situation is a bit confusing... the functions in deprecated class `QgsMapRenderer` have been replaced by equivalents in `QgsMapSettings` (as described by a post by Martin Dobias [1]). Why does not use the `mapSettings` everywhere?

and what is the use of `QgsMapSettings::setDestinationCrs()` if it has no effect? Might as well remove it...

there are also a few duplicate get/set functions between `QgsMapCanvas` and `QgsMapSettings` (e.g. `setCrsTransformEnabled`) which further add to the confusion.

I am going to insist on re-opening this bug because I think the API needs a bit of cleanup to remove duplicates and make it consistent.

[1] <http://osgeo-org.1560.x6.nabble.com/QGIS-Multi-threaded-Rendering-td5093928.html>

### #4 - 2014-03-17 09:52 AM - Etienne Tourigny

- Assignee set to *Martin Dobias*

- Priority changed from *Normal* to *Low*

I now understand from an email by Martin [1] that `QgsMapSettings` should be used to query map settings, not set them.

It would be nice to have this documented in the `QgsMapSettings` or `QgsCanvas` documentation.

The documentation in `QgsMapCanvas::mapSettings` reads "Get access to properties used for map rendering" which could be a bit clearer, stating that it should be used for consulting only.

I overlooked that this member returns a `const&` - probably because `pyqt` lets you modify the returned object without complaining.

[1] <http://comments.gmane.org/gmane.comp.gis.qgis.devel/30592>

### #5 - 2017-05-01 01:08 AM - Giovanni Manghi

- *Regression?* set to *No*

- *Easy fix?* set to *No*

### #6 - 2019-03-09 04:04 PM - Giovanni Manghi

- *Resolution* changed from *invalid* to *end of life*

- *Status* changed from *Reopened* to *Closed*

**End of life notice: QGIS 2.18 LTR**

**Source:**

<http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/>