

---

Subject: Re: Keywords and properties (in function graphics)  
Posted by [David Fanning](#) on Fri, 07 Feb 2014 20:13:18 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Gordon Farquharson writes:

```
>
> Hi All
>
> The IDL documentation states that keywords are applied only during the initial creation of the
> graphic, whereas properties can be set as keywords to the function during creation, or retrieved or
> changed using the "." notation after creation (e.g., [1]).
>
> Below is a simple program to display an image using a map projection. In the first case (im1), I
> set all keywords and properties in the function call. In the second case (im2), I only set keywords
> in the function call, and set properties after the function call.
>
> ---
> file1 = FILEPATH('Night.jpg', SUBDIRECTORY=['examples','data'])
>
> ret = query_jpeg(file1, info)
>
> lon = findgen(info.dimensions[0]) / info.dimensions[0] * 360. - 180.
> lat = findgen(info.dimensions[1]) / info.dimensions[1] * 180. - 90.
>
> read_jpeg, file1, data
>
> im1 = image(data, lon, lat, DIMENSIONS=[1024,512], MARGIN=0., $
>         GRID_UNITS="degrees", MAP_PROJECTION="Mollweide")
>
> im2 = image(data, lon, lat, DIMENSIONS=[1024,512], MARGIN=0.)
>
> im2.grid_units = "degrees"
> im2.map_projection = "Mollweide"
>
> END
> ---
>
> im1 displays the image as I would expect (warped to the map projection). However, IDL returns
> the following error when the map_projection property is set for im2.
>
> % Unable to retrieve map projection.
> % Execution halted at: $MAIN$          16 /home/gordon/tmp/test_map.pro
>
> For reference, line 16 is
>
> im2.map_projection = "Mollweide"
>
```

> Why? Specifically, why I can't change the map projection \*property\* after the image has been created?

This probably \*would\* work if the image \*had\* a map projection object to change. But, you didn't create this image with a map projection object, so you can't exactly change what isn't there. You can check to see if the image \*has\* a map projection object with the MAPPROJECTION property:

```
IF im2.mapprojection EQ !Null THEN Print, 'No map projection here!'
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

---