Subject: Put a 2d plot and an image into a 3D coordinate system Posted by Jianbao on Fri, 26 Aug 2011 04:57:56 GMT

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Hello folks,

I am trying to make a series of images with IDL for my simulations. After exploring the new IDL graphics system and the coyote graphics for over 3 hours, I still don't get a good concept of how to do it.

So, here is a sketch of what I am after: http://dl.dropbox.com/u/38390926/idl.jpg

In the sketch, the simulation is basically a color-scale image of current density in the 2D simulation plane, which moves along the z-axis as the simulation goes.

Can anyone help me with this, please? I really appreciate it.

Subject: Re: Put a 2d plot and an image into a 3D coordinate system Posted by David Fanning on Tue, 30 Aug 2011 15:57:44 GMT View Forum Message <> Reply to Message

Mark Piper writes:

- > I have a NG solution. Though it uses less code than OG, I had to think
- > about it a bit (NG are still much newer to me than OG). I also had to
- > rely on the undocumented TEXTUPDIR property to flip the labels on the Z
- > axis (thanks, CT!). Please give this a try:

Are you sure it doesn't use IDL 8.2 syntax!?

Here is what happens when I try to compile this code in IDL 8.1:

IDL> .compile -v 'C:\Users\David\IDLWorkspace81\Default\junk.pro'

% Syntax error.

At: C:\Users\David\IDLWorkspace81\Default\junk.pro, Line 21

g = image(image, overplot=p, transparency=20)

% Syntax error.

At: C:\Users\David\IDLWorkspace81\Default\junk.pro, Line 27

% 2 Compilation error(s) in module \$MAIN\$.

IDL> print, file_which('axis.pro')

% Compiled module: FILE_WHICH.
C:\Program Files\ITT\IDL\IDL81\lib\graphics\axis.pro
IDL> print, file_which('image.pro')
C:\Program Files\ITT\IDL\IDL81\lib\graphics\image.pro

Huh!?
Cheers,
David
--David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

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

Subject: Re: Put a 2d plot and an image into a 3D coordinate system Posted by Michael Galloy on Tue, 30 Aug 2011 16:26:43 GMT

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```
On 8/30/11 9:57 AM, David Fanning wrote:
> Mark Piper writes:
>
>> I have a NG solution. Though it uses less code than OG, I had to think
>> about it a bit (NG are still much newer to me than OG). I also had to
>> rely on the undocumented TEXTUPDIR property to flip the labels on the Z
>> axis (thanks, CT!). Please give this a try:
 Are you sure it doesn't use IDL 8.2 syntax!?
>
> Here is what happens when I try to compile this
> code in IDL 8.1:
  IDL> .compile -v 'C:\Users\David\IDLWorkspace81\Default\junk.pro'
>
>
     phiaxis = axis('y', location=[max(p.xrange), 0.0, max(p.zrange)], $
>
  % Syntax error.
    At: C:\Users\David\IDLWorkspace81\Default\junk.pro, Line 21
>
     g = image(image, overplot=p, transparency=20)
>
 % Syntax error.
    At: C:\Users\David\IDLWorkspace81\Default\junk.pro, Line 27
```

- > % 2 Compilation error(s) in module \$MAIN\$.
- > IDL> print, file_which('axis.pro')
- > % Compiled module: FILE_WHICH.
- > C:\Program Files\ITT\IDL\IDL81\lib\graphics\axis.pro
- > IDL> print, file_which('image.pro')
- > C:\Program Files\ITT\IDL\IDL81\lib\graphics\image.pro

>

> Huh!?

Works for me. Have you set compile_opt strictarr?

Mike

--

Michael Galloy www.michaelgalloy.com Modern IDL, A Guide to Learning IDL: http://modernidl.idldev.com Research Mathematician Tech-X Corporation

Subject: Re: Put a 2d plot and an image into a 3D coordinate system Posted by David Fanning on Tue, 30 Aug 2011 18:36:16 GMT View Forum Message <> Reply to Message

Michael Galloy writes:

> Works for me. Have you set compile_opt strictarr?

Ah, no. I usually set up my machine like the rest of the world does. :-)

OK, set Compile_Opt id2 and it compiles!

Alas, when I ran the program, I got a graphics window on my display, and then my machine locked up so hard I had to force a restart, which completely clobbered my news reader, which I had to delete and re-install, etc.

Have I mentioned today how much I *really* love IDL? :-(

Cheers,

David

P.S. I don't know if I have time today to try it again.

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Put a 2d plot and an image into a 3D coordinate system Posted by David Fanning on Tue, 30 Aug 2011 19:51:49 GMT View Forum Message <> Reply to Message

David Fanning writes:

- > Alas, when I ran the program, I got a graphics window
- > on my display, and then my machine locked up so hard
- > I had to force a restart, which completely clobbered
- > my news reader, which I had to delete and re-install,
- > etc.

>

- > Have I mentioned today how much I *really* love IDL? :-(
- > > Cheers,

>

> David

>

> P.S. I don't know if I have time today to try it again.

OK, I'm foolish, but I am NOT foolish enough to try that program a third time! There is something about that program that my computer just REALLY does not like at all!!!

And people wonder why I am a direct graphics kind of a guy. Sheesh!

Cheers.

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")