Subject: Re: Making 3D PDF from IDL
Posted by David Fanning on Tue, 12 Feb 2013 21:59:22 GMT

Paulo Penteado writes:

> Has anyone succeeded in creating 3D PDFs from IDL? I am referring to
> embedded 3D figures that can be rotated, panned and zoomed in Adobe
> Reader. Some examples are at
>
> http://dx.doi.org/10.1111/j.1365-2966.2011.19900.x
> http://dx.doi.org/10.1038/nature07609
> http://dx.doi.org/10.1126/science.1220574

Wow! That is cool. I didn't know anything like that was possible.
What next? 3D printers? ;-)

The hold-up might be shelling out $300 for the Adobe Software to do it.

> I want to make a 3D surface visualization, and thought I should ask
> here if anyone has written the code before I start doing it. Ideally,
> it would be a way to make the u3d file to use with the LaTeX movie15
> package (http://mirrors.rit.edu/CTAN/help/Catalogue/entries/
> movie15.html), so that Adobe's Acrobat 3D is not necessary.

Also cool. Let us know if you get this to work. :-)

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.")

Subject: Re: Making 3D PDF from IDL
Posted by Fabzi on Wed, 13 Feb 2013 09:48:33 GMT

On 02/12/2013 10:34 PM, Paulo Penteado wrote:
>
> Has anyone succeeded in creating 3D PDFs from IDL? I am referring to
> embedded 3D figures that can be rotated, panned and zoomed in Adobe

> Reader.

Wow, that's awsome! I can see applications in atmospheric sciences too.
That would be a very very usefull tool...

Cheers,

Fab

Subject: Re: Making 3D PDF from IDL
Posted by Vincent Sarago on Wed, 13 Feb 2013 14:33:03 GMT
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On Tuesday, February 12, 2013 4:34:00 PM UTC-5, Paulo Penteado wrote:
> Has anyone succeeded in creating 3D PDFs from IDL? I am referring to
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> embedded 3D figures that can be rotated, panned and zoomed in Adobe
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WoW, it's seems hard, but if you have time ...

There is no way directly from IDL.

I guest you will have to create (yourself) a file containing your 3D data (I think it's an XML file)

Here are the convention; http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-363%204th%20Edition.pdf

Vincent

Subject: Re: Making 3D PDF from IDL
Posted by manodeep@gmail.com on Wed, 13 Feb 2013 22:18:35 GMT
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On Tuesday, February 12, 2013 3:34:00 PM UTC-6, Paulo Penteado wrote:
> Has anyone succeeded in creating 3D PDFs from IDL? I am referring to
>
> embedded 3D figures that can be rotated, panned and zoomed in Adobe
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> package (http://mirrors.rit.edu/CTAN/help/Catalogue/entries/
>
> movie15.html), so that Adobe's Acrobat 3D is not necessary.

Astrobetter has an article about creating 3D pdf's here:
http://www.astrobetter.com/tutorial-for-embedding-3d-interac tive-graphics-into-pdf/

Cheers,
Manodeep