Subject: Problem with .eps figure losing annotation in a LaTeX document
Posted by BLesht on Wed, 14 Oct 2015 18:50:38 GMT

I use LaTeX (via TeXShop (v3.56) on a Mac (OSX10.8.5) for documents. I generate most of my graphics using IDL (v8.2). This always has worked well in the past. Today, I generated a new plot using the same code (based on Coyote graphics) that I've used before and saved it (as before) as an .eps file. Now, however, when I import it into my LaTeX document, all the alphabetic annotation (including decimal points) disappears from the axis annotations and from any text that I have included in the plot. When I view the .eps file using either Preview on the Mac or gv, it looks fine - nothing is missing.

I'm not entirely sure that this is an IDL issue or if it something do with with TexShop (I posted a question to that group as well), or maybe something with ghostscript (version 9.16). I was wondering if anyone else had had a similar problem or maybe has some insight into what might be going on.

Thanks.

Subject: Re: Problem with .eps figure losing annotation in a LaTeX document
Posted by chris_torrence@NOSPAM on Wed, 14 Oct 2015 21:05:23 GMT

On Wednesday, October 14, 2015 at 12:50:41 PM UTC-6, Barry Lesht wrote:
> I use LaTeX (via TeXShop (v3.56) on a Mac (OSX10.8.5) for documents. I generate most of my graphics using IDL (v8.2). This always has worked well in the past. Today, I generated a new plot using the same code (based on Coyote graphics) that I've used before and saved it (as before) as an .eps file. Now, however, when I import it into my LaTeX document, all the alphabetic annotation (including decimal points) disappears from the axis annotations and from any text that I have included in the plot. When I view the .eps file using either Preview on the Mac or gv, it looks fine - nothing is missing.
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> I'm not entirely sure that this is an IDL issue or if it something do with with TexShop (I posted a question to that group as well), or maybe something with ghostscript (version 9.16). I was wondering if anyone else had had a similar problem or maybe has some insight into what might be going on.
>
> Thanks.

Hi Barry,

Do you happen to have any old IDL EPS files that worked in the past? You could import those into LaTeX and see what happens. If they also fail then that eliminates IDL from the problem, and suggests that something else changed like TeXShop, your Mac install, or ghostscript.

Cheers,
Chris

Subject: Re: Problem with .eps figure losing annotation in a LaTeX document
Posted by BLesht on Wed, 14 Oct 2015 21:14:30 GMT
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Gee - I'm embarrassed not to have thought of this (seriously). Thanks, Chris! I'm in the middle of something else now but will give it a shot as soon as I can.

Barry

Subject: Re: Problem with .eps figure losing annotation in a LaTeX document
Posted by BLesht on Wed, 14 Oct 2015 22:00:44 GMT
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I did as Chris suggested and imported an old (dating from late January 2015) .eps file that I generated in IDL (using the same code) to my LaTeX document. It imported without any problem. Therefore, I guess the issue is in the ghostscript (ImageMagik?) or possibly the Coyote graphics routines. My Coyote graphics is current with revision 1542. I know that I haven't updated IDL for a while (I'm still on v8.2.3), but I probably have updated gs (via MacPorts) and Coyote since January.

The strange thing is that with the exception of any alphabetic characters (and decimal points) the plot looks fine. Symbols, numbers, lines, colors all are correct. I'm wondering if this is a font issue of some sort?

Subject: Re: Problem with .eps figure losing annotation in a LaTeX document
Posted by David Fanning on Wed, 14 Oct 2015 22:21:15 GMT
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Barry Lesht writes:

>   I'm wondering if this is a font issue of some sort?

This would be my guess. Nothing has happened in Coyote Graphics in the
past year that would do anything like this.

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: Problem with .eps figure losing annotation in a LaTeX document
Posted by BLesht on Thu, 15 Oct 2015 03:35:23 GMT

Hi David - thanks. I added PS_FONT=1 to the cgCONTROL command I used to generate the plot and it now works. Why I had to do this when the code without the explicit PS_FONT keyword worked before is a mystery.

Barry

Subject: Re: Problem with .eps figure losing annotation in a LaTeX document
Posted by David Fanning on Thu, 15 Oct 2015 03:51:56 GMT

Barry Lesht writes:

> Hi David - thanks. I added PS_FONT=1 to the cgCONTROL command I used to generate the plot and it now works. Why I had to do this when the code without the explicit PS_FONT keyword worked before is a mystery.

That probably makes sense. Those old PostScript hardware fonts were introduced in 1984. The Mac has probably outgrown them and now uses polygon fonts (i.e., True-Type fonts) exclusively, rather than those old outline fonts.

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.")