Subject: Re: Color Fonts?!?!?
Posted by Ken Mankoff on Wed, 17 Apr 2002 20:23:38 GMT
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On Wed, 17 Apr 2002, David Fanning wrote:

> Ken Mankoff (mankoff@I.HATE.SPAM.cs.colorado.edu) writes:

>

- >> The steps to make it automatic are just that the user passes in the
- >> title and the substring, and the program splits the title on the
- >> substring, and then makes the 3 XYOUTS with the dynamically generated
- >> substrings.

>

- > Well, sorta. Assuming there are three words, you don't
- > necessarily want to have them centered on the plot, etc., etc.

>

- > But nice work, though. It really was easier than I thought it would
- > be to come up with a one-off. That's not too bad if you need it for
- > a journal article. And if you had a well-enough defined environment,
- > you could even make it semi-automatic with minimal effort.

I agree that this currently works best for a simple hard-coded journal-article type plot, but I think that this is still even easier than you think it is. I do believe this could be a full-featured program that handles 95% of your average PLOT and SURFACE calls, with far less work than Hercules, Atlas, or Samson ever did. But no, I will not write it as I have no need for this, outside of a few simple hard-coded journal-article type plots. :)

- 1) There is no limitation of 3. You can pass in an array of substrings, and an optional associated array of colors you want them, and break the title into n substrings. The only requirement here is that each substring matches only one regexp. But most titles do not repeat words, so this should work.
- 2) You can center XYOUTS perfectly via this method: Write once offscreen ("XYOUTS, 10, 10, /norm, title, width=w") to get the length of the entire string (or write twice on-screen, the 2nd time in the background color to erase it). Knowing the length of the string, and !position, and CONVERT_COORD will allow you to make an XYOUTS indistinguishable from an "XTITLE=" keyword to plot"
- 3) If you then use CONVERT_COORD to work in data coordinates, I think you could even get colors working for words in a 3D PLOT or SURFACE, where your axes are skewed, using /T3D with XYOUTS.

-	
IX.	
-K.	
L	

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