
Subject: Re: Making a ginormous 54 panel plot...

Posted by manodeep@gmail.com on Wed, 01 Dec 2010 22:10:47 GMT

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On Dec 1, 2:49 pm, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:

> In article

> <5d27124d-2a89-4667-b024-dd293bda5...@f21g2000prn.googlegroup s.com > ,

>

>

>

> OUWxGuesser <aaron.kenn...@und.nodak.edu> wrote:

>> Here's the deal. I have 54 .png plots I want to combine into a 9x6

>> panel plot in IDL. Native resolution for each image is 1000x700

>> pixels. This exceeds the maximum buffer size of 8192x8192.

>

>> No problem... I use congrid and shrink everything to 90% of the

>> original size which gives me a final image size of 8100x3780.

>

>> In my code, I first specify the window as:

>> p=window(dimensions=[8100,3780])

>

>> I then loop through the files I need to panelize (or is it

>> penalize? :)) and place them in the appropriate places. This

>> works.

>

>> The issue I have is IDL does not listen to my dimensions for the

>> original window! Instead, it creates a window that is 8192x2632.

>> This creates large whitespace between the columns and shrinks the

>> individual panels beyond the original 90% of the original size I

>> specified. This makes things tough to read which defeats the

>> purpose... I want to place these plots on a poster for a conference.

>> My alternative *cringe* is to use GIMP to cut and paste the 54 plots

>> manually. Yikes!

>

>> I have tried messing with the buffer settings thinking this might be

>> the source of the problem, but I just end up getting MESA frame

>> buffer errors and in some cases, IDL crashes to the desktop with no

>> warning. If anyone has any suggestions or assistance, I'd greatly

>> appreciate it!

>

> Why are you opening a window?

>

> Can't you just read the PNG files, concatenate or copy them

> into your big array, then write the array out as a new PNG.

>

> Ken Bowman

If not using IDL for the final image is an option, then you should try

montage (from Imagemagick) to tile the images. You have control over the layout, the individual image sizes and the spacing between the images.

Here is the man page for montage:

<http://www.imagemagick.org/Usage/montage/>

If all else fails, convert from the images from png to eps, include in a tex file in the layout you want and generate a ps or pdf file.

Cheers,
Manodeep
