Subject: Re: Backlogged question: Drawing vector fields with same scaling in New Graphics

Posted by chris_torrence@NOSPAM on Thu, 12 Nov 2015 16:29:35 GMT View Forum Message <> Reply to Message

On Wednesday, November 11, 2015 at 3:41:43 PM UTC-7, tianhuachengyue wrote:

> Hi Chris,

>

> I tried setting v2.length_scale = const*vmag2/vmag1 and now the plots are working perfectly. Thanks for the solution!

>

> BTW, I also tried vmag = mean(sqrt(vx^2+vy^2)) but this didn't work correctly. Any trick behind using vmag = max(sqrt(vx^2+vy^2)) instead using mean(sqrt(vx^2+vy^2))? It seemed to me the vector plot setting is related to the maximum value of vector magnitude.

>

- > Cheers,
- > Huazeng

Hi Huazeng,

Yes, you are correct - it is using the maximum magnitude. Using the mean would be a bad idea, as your maximum vectors might be huge but still have a reasonable mean. You can actually see a lot of this code yourself, in idlitvisvector__define.pro.

Cheers,

Chris