Subject: Drawing vector fields with New Graphics
Posted by Gordon Farquharson on Mon, 01 Jul 2013 21:34:09 GMT
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Is there a way to plot (using New Graphics) two different vector fields on the same set of axes such that the vector fields have the same scaling?

Below is a minimal working program. What I want (and sort of expect) is that the v2 vectors be proportionally scaled with respect to the v1 vectors. What I get is that the v2 vectors appear larger than the v1 vectors, even though they are clearly smaller.

```
PRO test_vector

   x = [0.,1.,2.]
   y = [0.,0.,0.]
   vx = [1.,1.,1.]
   vy = [1.,1.,1.]

   v1 = vector(vx, vy, x, y, $
            XTITLE='X', YTITLE='Y', $
            XRANGE=[0.,4.], YRANGE=[0.,4.])

   v1.arrow_thick = 2
   v1.length_scale = 2

   stop

   x = [1.,2.]
   y = [1.,1.]
   vx = [-0.5,-0.5]
   vy = [-0.5,-0.5]

   v2 = vector(vx, vy, x, y, $
            /OVERPLOT)

   v2.arrow_thick = 2
   v2.length_scale = 2

END
```

Gordon