Subject: Re: vectors with same length
Posted by Kenneth P. Bowman on Mon, 28 Jul 2008 21:44:53 GMT
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In article
<e8c1f958-1621-4dba-9f10-ebba593e2de9@d1g2000hsg.googlegroups.com>,
knielsen73@gmail.com wrote:

> Hi,
>
> I am using velovect to create a vector plot. I would like for all the
> vectors to have the same length instead of the length representing
> amplitude. Is there are quick way to do this using velovect, or do I
> have to modify velovect?
>
> Thanks,
> Kim

Just divide each vector by it's magnitude. Given vector components u and v

mag = SQRT(u^2 + v^2)

VELOVECT, u/mag, v/mag

Watch out for zeroes, though.

Ken Bowman

Subject: Re: vectors with same length
Posted by Chris[6] on Mon, 28 Jul 2008 21:53:33 GMT
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On Jul 28, 11:31 am, knielse...@gmail.com wrote:
> Hi,
>
> I am using velovect to create a vector plot. I would like for all the
> vectors to have the same length instead of the length representing
> amplitude. Is there are quick way to do this using velovect, or do I
> have to modify velovect?
>
> Thanks,
> Kim

Wouldn't it be easy to divide your data by their lengths, so that they
all have length one?

velovect, u/sqrt(u^2+v^2), v/sqrt(u^2+v^2), x, y