

---

Subject: Re: plotting a vector field in 3d

Posted by [Michael Galloy](#) on Fri, 21 Jun 2013 16:30:47 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On 6/21/13 10:01 AM, Michael Galloy wrote:

> On 6/21/13 4:14 am, Petros Syntelis wrote:

>> Hi,

>>

>> I am trying to plot a vector field in 3d and i have great difficulty

>> in doing so. I have 3 variable, bx,by,bz that have (nx,ny,nz)

>> dimentions which represent the vector field.

>>

>> My questions are: 1) How can i plot this vector field. I have tryied

>> a variety of things (flow3 etc) i found online but all advices seems

>> to lack some part of information and i fail to reproduce the

>> results. I also whould like a hint on how i could overplot those

>> lines above an xy image on the bottom of the plot.

>>

>> 2) Is there a way to trace the field lines and have, lets say 3

>> variables of dimentions (nlines,nx),(nlines,ny),(nlines,nz)?

>>

>> 3) Because i am pretty sure that no answer whould be sufficient

>> explanatory, as you can't explain everything in a group discussion,

>> which book/references whould you recommend me to read?

>>

>> Thank you very much, Petros

>>

>

> Check out this post:

>

>

> <http://michaelgalloy.com/2008/03/19/overview-of-flow-visuali-zation-in-idl.html>

>

>

> Mike

The article is very 2D-centric, but there are a few 3-dimensional examples. I don't think there are very many good options for 3-dimensional (or 2-dimensional, for that matter) vector field visualization in IDL.

Mike

--

Michael Galloy

[www.michaelgalloy.com](http://www.michaelgalloy.com)

Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)

Research Mathematician

Tech-X Corporation

---