
Subject: Re: how to draw streamline

Posted by [Michael Galloy](#) on Mon, 17 Mar 2008 22:31:52 GMT

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On Mar 17, 3:52 pm, mankoff <mank...@gmail.com> wrote:

> On Mar 17, 10:27 am, "mgal...@gmail.com" <mgal...@gmail.com> wrote:

>

>> On Mar 16, 11:22 pm, wfz...@bjmb.gov.cn wrote:

>

>

>>>> On Mar 7, 7:55 am, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:

>

>>>> > In article

>>>> > <92bef8cb-bd54-48b7-b54c-2ff9f4f75...@s8g2000prg.googlegroups .com >,

>

>>>> > wenfang_z...@hotmail.com wrote:

>>>> > > Hi,all

>>>> > > I want to draw the wind streamline map, and I try many methods

>>>> > > described in the forum, but some are wind vectors not the streamline,

>>>> > > which is the serial contour line with arrow on the contour plot.

>

>>>> > > some one ever mentioned that there was a script sample on the web site

>>>> > > http://www.metvis.com.au/idl/

>>>> > > but i can't get access to it.

>

>>>> > > so if there anybody who can load that web site and give a copy of both

>>>> > > the script and the streamline image for me?

>

>>>> > > I will appreciate your help!

>

>>>> > > wenfang

>

>>>> > Here is a sample code to plot 2-D streamlines using VEL.

>

>>>> > By default VEL chooses the initial points randomly, but the

>>>> > source code is available if you want to change that.

>

>>>> > Ken Bowman

>

>>>> > PRO STREAMLINE_DEMO

>

>>>> > n = 50

>>>> > x = FINDGEN(n)/(n-1)

>>>> > y = FINDGEN(n)/(n-1)

>

>>>> > xx = REBIN(x, n, n)

>>>> > yy = REBIN(REFORM(y, 1, n), n, n)

```

>
>>>> > u = -SIN(!PI*xx)*COS(!PI*yy)
>>>> > v = COS(!PI*xx)*SIN(!PI*yy)
>
>>>> > VEL, u, v, NVECS = 100, NSTEPS = 100, length = 0.5
>
>>>> > END
>
>>>> Following on from Ken's example, you might also try,
>
>>>> iVector, u, v, x, y, /STREAMLINES, STREAMLINE_NSTEPS=25
>
>>>> -Chris

>

>
>>> thanks for all response from you.
>>> now I am a little confused, what kind of line can be called as wind
>>> streamline?
>>> what I want is the consecutive line with arrow, something like the
>>> contour plot line with arrow, not the small lines with arrow, I don't
>>> know how to describe it more clear? I have a sample image of wind
>>> streamline ,which is what I want, but how I can put it on the forum so
>>> all of you can have a look and understand what I mean.
>
>> I think you are talking about OSTR (image-guided streamlines) in this
>> diagram:
>
>> http://michaelgalloy.com/wp-content/uploads/2008/03/flow.png
>
>> I have thought about making implementations of some of the
>> visualizations in that diagram. I have a (very slow) implementation
>> for LIC:
>
>> http://michaelgalloy.com/2007/12/09/lic-flow-code.html
>
>> Mike
>> --www.michaelgalloy.com
>> Tech-X Corporation
>> Software Developer II
>
> Are all 6 images the same data? It looks like it, but it really shows
> some of the limitations of a simple vector field graphic... Wow.

```

Yes, all six images are from the same data. And yes, I think the standard grid of vectors is not very useful.

Mike

--

www.michaelgalloy.com

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