
Subject: Re: How to make a ribbon plot

Posted by [David Fanning](#) on Thu, 25 Apr 2002 03:11:40 GMT

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

Brian Bell (sailfalmouth@yahoo.com) writes:

> I want to make a ribbon plot in a 3D graph. Should I use SURFACE
> objects to create it? I basically want to make some planes that are
> perpendicular to the xy plane and parallel to either the xz plane or
> the yz plane. Any help with this would be greatly appreciated. Thank
> you,

It's not clear to me what you are trying to do,
but have you had a look at the STREAMLINE command?
That is suppose to draw ribbon plots.

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: How to make a ribbon plot

Posted by [Rick Towler](#) on Thu, 25 Apr 2002 16:19:07 GMT

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

It seems you have a few options. IDLgrSurface objects, mesh_obj "extrude" + IDLgrPolygon, and as David mentioned Streamline.

I think the easiest would be creating many Surface objects and specifying x,y, and z accordingly. You'll have to do some work to get your data into the correct format but once you work out the details it should be easy.

say you have a 2d array of data, each column you wish to plot as a ribbon:

```
pro ribbon_plot, data, colors, model, container
```

```
width = 2.5
```

```
space = 1.0
```

```
s = size(data, /dimensions)
```

```
surf_array = objarr(s[0])
```

```
container -> add, surf_array
```

```
for n=0, s[0]-1 do begin
```

```
  z = [data[n,*], data[n,*]]
```

```
  x = [n * (width + space), (n * (width + space)) + width]
```

```
  y = findgen(s[1])
```

```
  surf_array[n] = obj_new('idlg_surface',z, x, y, color=colors[*], $  
    style=2)
```

```
endfor
```

```
model -> add, surf_array
```

```
model -> rotate, [1,0,0], -90.
```

```
end
```

I left a lot of room for style points but this should get you started.

-Rick

"Brian Bell" <sailfalmouth@yahoo.com> wrote in message
news:f65c611a.0204240732.2a78f30@posting.google.com...

```
> I want to make a ribbon plot in a 3D graph. Should I use SURFACE  
> objects to create it? I basically want to make some planes that are  
> perpendicular to the xy plane and parallel to either the xz plane or  
> the yz plane. Any help with this would be greatly appreciated. Thank  
> you,  
>  
> Brian
```
