Subject: Re: How to make a ribbon plot
Posted by Rick Towler on Thu, 25 Apr 2002 16:19:07 GMT
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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('idlgrsurface',z, x, y, color=colors[*,n], $
          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
