Subject: Define a region between curves
Posted by Rafael Cirolini on Thu, 08 Jun 2017 15:27:10 GMT
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Hello,

I'm needing help getting regions to map each of the regions between these equations below. These equations describes the BPT diagram btw.

Curve plot
x=findgen(135)*0.01-1.49
y= 0.61/(x-0.05)+1.3

Curve plot
xke=findgen(175)*0.01-1.49
yke= 0.61/(xke-0.47)+1.19

Line plot
xc=findgen(94)*0.1-0.2
yc= 1.01 * xc + 0.48

These equations plot two curves and a line, where they form four different regions. A region is below the first equation, the second is between the second and the first (which are the two curves), a third and fourth regions that are above and below the line equation also above the second curve equation.

I tried to apply the equations in the range they are defined in the diagram and I made this relation to go through a certain number of values:

```
for c= -12,9 do begin
number = make_array(1, 1, /float, value=c)
number = number/10
endfor
```

My problem is that I can not find a way to define each region. I tried to set a fixed value of x and vary y (x) but it did not work out. How can I define these regions without being polygons? Because my goal is to mount the tvscale and later the imcontour. I think i made myself clear of what i'm having trouble with. But summarizing my problem is to define a region between these equations to make a tvscale.
I accept any ideas or suggestions. Thanks.

Subject: Re: Define a region between curves
Posted by Rafael Cirolini on Thu, 08 Jun 2017 15:32:27 GMT
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I'm trying to do something like this
https://drive.google.com/open?id=0BzUp8cEJ5O_EVy05VmpYbEdGQ2 c

Subject: Re: Define a region between curves
Posted by Helder Marchetto on Thu, 08 Jun 2017 16:05:46 GMT
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On Thursday, June 8, 2017 at 5:32:29 PM UTC+2, Rafael Cirolini wrote:
> I'm trying to do something like this
https://drive.google.com/open?id=0BzUp8cEJ5O_EVy05VmpYbEdGQ2 c

Hi,
I haven't tested this specific problem, but I would attempt to use the polygon function. Have a look at the graph on this help page:
http://www.harrisgeospatial.com/docs/POLYGON.html

Cheers,
Helder