Subject: Re: IDLgrPolygon unexpected result
Posted by lecacheux.alain on Thu, 28 Feb 2013 13:22:14 GMT
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Le mercredi 27 février 2013 19:41:58 UTC+1, nata a écrit :
> Hi guys,
>
>
>
> I am trying to create a polygon using the following set of points. I want my IDLgrPolygon to look
like the plot so I add some vertices to close the shape.
>
>
>
> I don't understand what is going on here. I cannot get the polygon correctly. What am I
missing?
>
>
>
> Thank you in advance for your help,
>
> nata
>
>
>
>   x=[0.000,0.019,0.037,0.056,0.074,0.093,0.111,0.130,0.148,0.1
67,0.185,0.204,0.222,0.241,0.259,0.278,0.296,0.315,$
>
>   0.333,0.352,0.370,0.389,0.407,0.426,0.444,0.463,0.481,0.500,
0.519,0.537,0.556,0.574,0.593,0.611,0.630,0.648,$
>
>   0.667,0.685,0.704,0.722,0.741,0.759,0.778,0.796,0.815,0.833,
0.852,0.870,0.889,0.907,0.926,0.944,0.963,0.981,1.000]
>
>
>
>   y=[0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.0
02,0.000,0.029,0.037,0.037,0.020,0.019,0.036,0.046,$
>
>   0.044,0.049,0.074,0.147,0.186,0.217,0.262,0.399,0.416,0.411,
0.391,0.577,0.459,0.376,0.318,0.387,0.316,0.431,$
>
>   0.421,0.318,0.413,0.628,0.665,0.541,0.714,0.536,0.594,0.606,
0.437,0.804,0.594,0.629,0.836,0.631,0.827,0.910,1.000]
>
>
>
> PLOT, x, y, /XS, /YS

```
>
>
>
> N=N_ELEMENTS(X)
>
>
>
> x=[0.,x,x[N-1],0]
>
> y=[0.,y,0.,0.]
>
>
>
> poly=OBJ_NEW('IDLgrPolygon',x,y)
>
> XOBJVIEW, poly
```

Since your (x,y) curve is increasing from [0,0] to [1,1], you can close it by simply adding the (1,0) point. Try this:

```
  x=[0.000,0.019,0.037,0.056,0.074,0.093,0.111,0.130,0.148,0.1
67,0.185,0.204,0.222,0.241,0.259,0.278,0.296,0.315,$
    0.333,0.352,0.370,0.389,0.407,0.426,0.444,0.463,0.481,0.500,
0.519,0.537,0.556,0.574,0.593,0.611,0.630,0.648,$
    0.667,0.685,0.704,0.722,0.741,0.759,0.778,0.796,0.815,0.833,
0.852,0.870,0.889,0.907,0.926,0.944,0.963,0.981,1.000]

  y=[0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.0
02,0.000,0.029,0.037,0.037,0.020,0.019,0.036,0.046,$
    0.044,0.049,0.074,0.147,0.186,0.217,0.262,0.399,0.416,0.411,
0.391,0.577,0.459,0.376,0.318,0.387,0.316,0.431,$
    0.421,0.318,0.413,0.628,0.665,0.541,0.714,0.536,0.594,0.606,
0.437,0.804,0.594,0.629,0.836,0.631,0.827,0.910,1.000]

pl = plot(x, y)
pol = polygon([x,x[-1]],[y,y[0]], /DATA, /FILL_BACKGROUND, FILL_COLOR='grey')
```

alain.