
Subject: IDLgrPolyline

Posted by [majewski](#) on Tue, 25 Jul 2000 07:00:00 GMT

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

Hi,

I'm rather new to object graphics (a whole 5 days now) and was wondering whether or not i was doing the sensible thing here.

Aas part of my honours project I'm detecting surface currents from sequential satellite imagery....

I'm trying to create a field of displacement vectors, with arrows pointing from the origin (i,i) to the destination (i+delx, j+dely). I figured that a (whole lot of) polyline with an invisible character at the start and a visible character at the end would suffice for arrows - and this seems to be true (& easy).

However I wonder if how I am adding each polyline to the model (view, window) is the best approach (see code segment below). When I have a large number of polylines to be added it takes a (rather) long time.

A code segment follows, however, documentation and a working program & data are available (if you are so keen to help [or just interested]) at <http://cygnus.uwa.edu.au/~majewski/MCC.html>

thanks
leon

```
-----  
# Data_set is an array of floats [*,*,3] usually [50,50,3] however I  
want to move towards [200,200,3] or more.  
#data_set[*,*,0] = x displacement  
#data_set[*,*,1] = y displacement  
#data_set[*,*,2] = cross correlation coefficient  
  
for j = 0, maxj do begin  
  for i = 0, maxi, step do begin  
    if (Data_set[i,j,2]) ge 0.3 then begin  
      delx = Data_set[i,j,0]  
      dely = Data_set[i,j,1]  
      corr = Data_set[i,j,2]  
  
      ; Make an array of symbols: #1 invisible, #2 color of line  
      Symbols=[OBJ_NEW('IDLgrSymbol', data=0),OBJ_NEW('IDLgrSymbol',  
SIZE=0.125, data=5, COLOR=[250*corr,0,0])]  
  
      ; Make a line between origin and origin+displacement  
      MyPolyLine = OBJ_NEW('IDLgrPolyline', [[i,j], [i+delx,j+dely],
```

```
[i,j]], COLOR=[250*corr,0,0], SYMBOL=symbols)
```

```
OModel -> ADD, MyPolyLine  
    endif  
endfor  
endfor
```

```
oXAxis = OBJ_NEW('IDLgrAxis',0,range=[-3,max_side+3])  
OModel->Add, oXAxis  
oYAxis = OBJ_NEW('IDLgrAxis',1,range=[-3,max_side+3])  
OModel->Add, oYAxis
```

```
OView -> ADD, oModel  
OWindow -> DRAW, oView
```

Leon Majewski

Remote Sensing & Satellite Research Group
Curtin University of Technology, Perth, Australia

email: majewski@ses.curtin.edu.au
