Subject: Help with creating array and plotting
Posted by Dennis Lamenti on Fri, 14 May 2004 08:28:10 GMT
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Hi

Thanks for any suggestions.
Below is a procedure for reading a structures in the arguments passed to procedure.

This is my first attempt at writing anything like this and it took me a long time to write and plot it the way i want.

I have four nights of data on some magnititudes of stars (v1, v2, .., c1, c2, ...) each of these are fltarr, the star1, 2,.. are string arrays of names of stars. my goal is to match the star1 to star2 and then where it matches the star name, put those mags into fltarr. then again match star1 to star3 and put mags into fltarr where the starname matches and the same for star1 to star4. then plot those arrays for each night.

What i am doing is trying to find out what kind of differences there are in magnitudes of stars through a fish eye lens and see if there differences are consistent on images that i take.

Ok, i can plot those differences that match up to each night, but now i want to plot a line to each point for each star. that way i can tell if there is a difference is all over the plot or linear or ?

any suggestions? if you have and my explanation is confusing please let me know.

thanks alot,

dennis lamenti

pro starplot2, star1, star2, star3,star4, v1, v2, v3, v4, c1, c2, c3, c4, cv1, cv2, cv3, cv4

cv1 = fltarr(n_elements(star1))

```
cv2 = fltarr(n_elements(star1))

cv3 = fltarr(n_elements(star3))

cv4 = fltarr(n_elements(star1))

x   = intarr(n_elements(star1) + 1)

y   = intarr(n_elements(star1) + 1)

z   = intarr(n_elements(star1) +1)

h   = intarr(n_elements(star1) + 1)

;pline = fltarr(n_elements(star1))



for i=0, n_elements(star1)-1 do begin

    cv1[i] = c1[i] - v1[i]

    x[i] = 1.0

endfor
```

```
for i=0, n_elements(star1)-1 do begin
  t=where(star1[i] EQ star2, count)
  if count gt 0 then begin
      cv2[i] = c2[t] - v2[t]
      y[i] = 2.0
  endif

endfor

for i=0, n_elements(star1)-1 do begin
  t=where(star1[i] EQ star3, count)
  if count gt 0 then begin
      cv3[i] = c3[t] - v3[t]
      z[i] = 3.0
  endif

endfor

for i=0, n_elements(star1)-1 do begin
  t=where(star1[i] EQ star4, count)
  if count gt 0 then begin
      cv4[i] = c4[t] - v4[t]
      h[i] = 4.0
  endif
```

```
endfor


plot, x, cv1, psym=3,$
  TITLE = 'test1',$
  XTITLE = 'night', $
  YTITLE = 'c-v', XRANGE= [0,5]
oplot, y, cv2, psym=4
oplot, z, cv3, psym=5
oplot, h, cv4, psym=2


;for i=0, n_elements(star1)-1 do begin
;  pline[




end
```

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