Subject: Re: extract circle from data with idl
Posted by termybel on Mon, 16 Oct 2017 10:23:34 GMT
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Il giorno lunedì 16 ottobre 2017 11:20:59 UTC+2, Markus Schmassmann ha scritto:
> On 10/15/2017 06:08 PM, termybel@gmail.com wrote:
>> Il giorno giovedì 12 ottobre 2017 16:27:18 UTC+2, Markus Schmassmann ha scritto:
>>> On 10/12/2017 02:10 PM, termybel@gmail.com wrote:
>>>> Thanks to answer but I have a probelm.
>>>>
>>>> You puth this: if n_elements(li) ne 1 then message, 'not exactly 1 contour'
>>>>
>>>> and my program say: not exactly 1 contour
>>>>
>>>> How I can solve it?
>>>>
>>>> If I ask in idl " help,/str,li" and the answer is:
>>>>
>>>> Structure CONTOUR_DBL_PATH_STRUCTURE, 6 tags, length=24, data length=20:
>>>>    TYPE           BYTE        1
>>>>    HIGH_LOW       BYTE        1
>>>>    LEVEL          INT         0
>>>>    N              LONG        7
>>>>    OFFSET         LONG        0
>>>>    VALUE          DOUBLE      9.0000000
>>>>
>>>> and for " help,/str,lines"
>>>> LINES          DOUBLE    = Array[2, 5447]
>>>>
>>>> My contour isn't a perfect circle. Maybe is this the problem?
>>>>
>>>> This is my program where the image is a flat field panel minus dark:
>>>>
>>>> file_ff1='ff_100s_3.fits'                    ;immagine
>>>> immagine_ff1=readfits (file_ff1, header1)       ; leggo l'immagine del flat field panel
>>>> file_dark='ff_100s_dark_3.fits'                 ;immagine
>>>> immagine_dark=readfits (file_dark, header1)       ; leggo l'immagine della dark
>>>>
>>>> n=100.                                       ; secondi di esposizione dell'immagine
>>>> ffp=(immagine_ff1-immagine_dark)/n
>>>>
>>>> ; contour per selezionare soglie di equivalore
>>>>
>>>> speriamo=fltarr(2048,2048)                ; creo una matrice 2048x2048
>>>> dimensioni=size(speriamo,/dimensions)
>>>> cubo=where(ffp lt 9.5 or ffp gt 10)
>>>>
>>>>

```
>>>>
>>>>  wrong_matrix=array_indices(dimensioni, cubo,/dimensions)
>>>>  indxw=reform(wrong_matrix(0,*))
>>>>  indyw=reform(wrong_matrix(1,*))
>>>>  ;ffp(indxw,indyw)=0.
>>>>  ;c = CONTOUR(ffp, dimensions=[512,512], Title='prova cubo')
>>>>
>>>>  ; DATA   being the data to be contoured
>>>>  level=9
>>>>  contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , path_xy=lines,
/path_data_coord, levels=[level], /path_double
>>>>     ; lix=lines(0,*)
>>>>     ; liy=lines(1,*)
>>>>     ; liyd=deriv(lix,liy)
>>>>     ;ind=where(abs(liyd) le 0.0001)
>>>>
>>>>  if n_elements(li) ne 1 then message, 'not exactly 1 contour'
>>>>
>>>>
>>>>  cont_obj =obj_new('IDLanROI',lines)
>>>>  void= cont_obj.ComputeGeometry(centroid=center)
>>>>  ;fit_ellipse(
>>>>  print, center[0:1]
>>>>
>>>>  end
>>>
>>>  contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , $
>>>        path_xy=lines, /path_data_coord, levels=[level], /path_double
>>>  contour, smooth(ffp(250:1700, 250:1700),3), levels=[level]
>>>  ; shows you there are more than 1 contour,
>>>  ; you need to identify the correct one
>>>  ; often the best is the longest
>>>  void=max(li.n,j)
>>>  line=[*,li[j].offset+lindgen(li[j].n)]
>>>  plot, line[0,*],line[1,*]
>>>  cont_obj =obj_new('IDLanROI',line)
>>
>>  I don't know why but IDL says this message (it doesn't read the *):
>>
>>  line=[*,li[j].offset+lindgen(li[j].n)]
>>           ^
>>  % Syntax error.
>>
>  ; sorry, it should be
>  line=lines[*,li[j].offset+lindgen(li[j].n)]
```

Thank you so much! :D :D :D

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