Subject: count number of pixels and write to a txt file
Posted by beardown912 on Mon, 02 Feb 2015 06:38:32 GMT

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Hello,

I've been banged my head and pulling out my hairs for last a couple of days, but I am still
struggling. And I decided to get some help from you guys.

What I've been trying to is counting number of pixels meets a condition and write it into a text file
with the file name. And I am dealing with about 20,000 image files.
I used 'where' function and it works fine in displaying while looping.
However, only the last value of pixel number and all file names are appended.
Below is what I've been reached. It looks very sloppy :)

```
-------------------------------
pro filelist

filter = ['*.tif']
file = file_search(dialog_pickfile(PATH='C:\', filter=filter, get_path=outdir, /multiple_files),
count=numbers)
FILE_MKDIR, outdir

FOR j=0, numbers-1 DO BEGIN

  Image = read_tiff(file[j])

  index = where(image ge 210, ct)

  if ct GT 50000 then  begin
    openw, lun, outdir + 'test00.txt ', /get_lun
    printf, lun, ct, file
    close, lun
    free_lun, lun
  endif

ENDFOR
end
-----------------------------------------------
```

Any tip would be greatly appreciated.

Thanks,
Kim

Subject: Re: count number of pixels and write to a txt file

Am 02.02.2015 um 07:38 schrieb beardown912@gmail.com:
> Hello,
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> of days, but I am still struggling. And I decided to get some help
> from you guys.
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> filter = ['*.tif'] file = file_search(dialog_pickfile(PATH='C:\',
> filter=filter, get_path=outdir, /multiple_files), count=numbers)
> FILE_MKDIR, outdir
>
> FOR j=0, numbers-1 DO BEGIN
>
> Image = read_tiff(file[j])
>
> index = where(image ge 210, ct)
>
> if ct GT 50000 then begin openw, lun, outdir + 'test00.txt ',
> /get_lun printf, lun, ct, file close, lun free_lun, lun endif
>
> ENDFOR end --
>
> Any tip would be greatly appreciated.
>
> Thanks, Kim
>

Hi!
You are re-opening (and thus overwriting) the file. You could
a) add "/APPEND" to the openw command
b) pull the openw/close/free_lun out of the loop.
Solution b) is faster, but considering the WHERE command it probably
doesn't matter in this case.
I also think you can ommit either the free_lun or the close command, but
I'm not sure at the moment.
m

Subject: Re: count number of pixels and write to a txt file
Posted by Yngvar Larsen on Mon, 02 Feb 2015 12:31:10 GMT
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```
pro myfilecounts, files, outdir
   openw, lun, outdir + 'filecounts.txt ', /get_lun
   foreach file, files do begin
     index = where(read_tiff(file) ge 210, ct)
     if ct gt 50000 then printf, lun, ct, ' ', file_basename(file)
   endforeach
   free_lun, lun
end
```

On Monday, 2 February 2015 07:38:35 UTC+1, beard...@gmail.com wrote:
> Hello,
>
> I've been banged my head and pulling out my hairs for last a couple of days, but I am still
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>
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> FOR j=0, numbers-1 DO BEGIN
>
>   Image = read_tiff(file[j])
>
>   index = where(image ge 210, ct)
>
>   if ct GT 50000 then begin
>   openw, lun, outdir + 'test00.txt ', /get_lun
>   printf, lun, ct, file
>   close, lun
>   free_lun, lun
>   endif
>
> ENDFOR
> end
> ---

>
> Any tip would be greatly appreciated.
>
> Thanks,
> Kim

Subject: Re: count number of pixels and write to a txt file
Posted by beardown912 on Mon, 02 Feb 2015 13:18:20 GMT
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On Monday, February 2, 2015 at 1:38:35 AM UTC-5, beard...@gmail.com wrote:
> Hello,
>
> I've been banged my head and pulling out my hairs for last a couple of days, but I am still struggling. And I decided to get some help from you guys.
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>   if ct GT 50000 then begin
>   openw, lun, outdir + 'test00.txt ', /get_lun
>   printf, lun, ct, file
>   close, lun
>   free_lun, lun
>   endif
>
> ENDFOR
> end
> --
>

> Any tip would be greatly appreciated.
>
> Thanks,
> Kim

Thank you Moritz & Yngvar, I really appreciate your times and answers.
Your suggestion and the code snippet work perfectly.
I can go a step further and keep up learning.

Kim