Subject: mosaic two images in direct graphics
Posted by Sebastian on Thu, 09 Jun 2005 13:43:16 GMT
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Hello group,

i have a problem merging two images together, and couldn't find information for a solution.

My problem:

i have two (or even more) images of irregular shape (in fact, they are referenced orbits of a satellite), the rest of the image is black.
i want to draw the two images using direct graphics. If i just use TV or TVSCL, the surrounding (black) part of the image overplots the first image, so i can't see both orbits.
The technique of simply adding the arrays is not satisfying as i want to add many images with different sizes and i do not want to process them individually.

My approach would be to te tell TV not to draw the black color, that would be sufficient. Some sort of transparency would solve my problem as well.

If it is possible in object graphics for sure, i am willing to transfer my program to that....

some advice??? Thanks in advance!

Viele Gruesse
Sebastian

Subject: Re: Mosaic
Posted by Robert Moss, PhD on Mon, 20 Nov 2006 00:21:47 GMT
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MOSAIC_DOIT is what you are looking for.

r

bujji wrote:
> Hello All,
>
> I am using IDL6.3 on windows. I am having some raw data sets. using
> ENVI routines I had georeferenced the data. Now I wud like to Mosaic
> the data.
> How to Mosaic the data automatically using ENVI and IDL routines(the

> data is georeferenced).
>
> Please suggest me a suitable way.
>
> Regards,
> Prahlad V

Subject: Re: Mosaic
Posted by bujji on Mon, 20 Nov 2006 08:07:08 GMT
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Robert,

I had seen MOSAIC_DOIT but I am having 'n' number of files in a directory and all the files have to be mosaiced automatically. I am facing a problem with the x0, y0 and pos arguments

Regards,
Prahlad V

Robert Moss wrote:
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> bujji wrote:
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Subject: Re: Mosaic
Posted by David Streutker on Mon, 20 Nov 2006 16:40:22 GMT
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X0 and Y0 are vectors which contain the starting pixels for each of your input images, with respect to the output mosaic. For example, if

you are mosaicking four 100 x 100 images into one 200 x 200 image,
then:

X0 = [0, 0, 100, 100]
Y0 = [0, 100, 0, 100]

(I can't remember if these are referenced from the upper left or lower
left corner.)

POS determines which bands of the input files to include, and in what
order. If there are two bands in the four files listed above, use
something like this:

POS = rebin(lindgen(2), 2, 4)

print, POS
```
       0       1
       0       1
       0       1
       0       1
```

Hope that helps,
David

Subject: Re: Mosaic
Posted by bujji on Fri, 24 Nov 2006 02:18:45 GMT
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Thanks Mr David,

I cud resolve the problem for two images. If there are 'n' number of
images then tell me generic way to define X0,Y0,POS,DIMS.

Regards,
Prahlad

David Streutker wrote:
> X0 and Y0 are vectors which contain the starting pixels for each of
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>
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>
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> something like this:
>
> POS = rebin(lindgen(2), 2, 4)
>
> print, POS
> 0 1
> 0 1
> 0 1
> 0 1
>
> Hope that helps,
> David

Subject: Re: Mosaic
Posted by bujji on Thu, 21 Dec 2006 19:03:37 GMT
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David,
thanx for your reply.
but i want to know a generic way to automatically mosaic the
geo-referenced images.

please let me know how to define "dims" also. and my images are gray
scale images.

regards,
prahlad

David Streutker wrote:
> X0 and Y0 are vectors which contain the starting pixels for each of
> your input images, with respect to the output mosaic. For example, if
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>
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>
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>
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>
> print, POS
> 0 1
> 0 1
> 0 1
> 0 1
>
> Hope that helps,
> David

Subject: Re: Mosaic
Posted by linglimu on Tue, 26 Dec 2006 10:53:05 GMT
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"
> Robert,
>
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>>>
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>>>
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>>> Prahlad V

hello ,this was a question troubling me 3 years ago. Through MOSAIC_DOIT can been used to mosaic the images based on the Envi platform,but you should provide goe_information as mentioned above. So the Goe_information is the key question. how to get the goe_information, Envi doesn't provide.You can use the follow code , which is imbedded in Noaa image processing system programed by me .

```
 ;-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*- *//
;-*-*-*-              mosaic the image        -*-*-*-*-*-*-*//
 ;-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*- *//

pro map_mosaic1,fileName1,fileName2,out_Name,dir

cd,dir


envi_open_data_file, fileName1,r_fid=fid1;,/NO_REALIZE
if (fid1 eq -1) then begin
envi_batch_exit
return
end


envi_open_data_file, fileName2,r_fid=fid2;,/NO_REALIZE
if (fid2 eq -1) then begin
envi_batch_exit
return
end


fids = [fid1,fid2]

out_ps = [1100,1100];RS
print , 'selecting file over !!'

;////////use georef_mosaic_setup to get the information of the files
georef_mosaic_setup, fids=fids, out_ps=out_ps, dims=dims, xsize=xsize,
ysize=ysize,$
                x0=x0, y0=y0, map_info=map_info

;/////set the necessary parameter
use_see_through = [[1L],[1]]
see_through_val = [[0L],[0]]
pos = [[0,1,2,3,4],[0,1,2,3,4]]
print,xsize,ysize
```

```
print , 'To select the output file !!'
;/////////Select the output file
;//////////do mosaic
envi_doit, 'mosaic_doit', fid=fids, pos=pos, dims=dims,
out_name=out_Name, $
r_fid=out_fid1, xsize=xsize, ysize=ysize, x0=x0, y0=y0, georef=1,
map_info=map_info, $
out_dt=4, pixel_size=out_ps, background=0,
see_through_val=see_through_val, $
use_see_through=use_see_through
envi_file_mng, id=fid1, /remove
envi_file_mng, id=fid2, /remove
envi_file_mng, id=out_fid1, /remove

end
```