
Subject: Subset Image

Posted by [Julio\[1\]](#) on Thu, 15 Sep 2005 19:20:25 GMT

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Hello,

ENVI allows to subset an image via ROIs (Regions of interest). I want to make the same using IDL. Does anybody know some IDL code do make that?

Thanks,
Julio

Subject: Re: Subset Image

Posted by [Julio\[1\]](#) on Sat, 17 Sep 2005 17:32:52 GMT

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Actually, I don't have the ROIs yet. What I want is to subset the image using the limits of a vector file (EVF or DXF). I think it could be carried out using ROIs, but I'm not sure about that. I'll take a look on XROI...

Do you have some idea to make that without using ROIs?

Júlio

Jeff N. escreveu:

> The 'subset via ROI' function in ENVI sets every pixel outside of the
> ROI to zero right? There are actually lots of ways to do this with
> IDL. The answer really depends on your ROI. If your ROI is
> rectangular, you can do it with array subscripting. If your ROI is an
> irregular shape, you would probably use the WHERE() function. Are you
> planning to draw the ROI's with IDL too? If so, you might try XROI.
>
> Jeff
>
>
> Julio wrote:
>> Hi,
>>
>> I want to subset the image using ROIs. I can't use SUB_RECT because I
>> don't know the limits (columns, rows) of each subset (it is specified
>> by ROIs).
>> Thanks at any rate,
>> Julio

Subject: Re: Subset Image

Posted by [Jeff N.](#) on Sat, 17 Sep 2005 22:22:01 GMT

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I'm sure that IDL can read shapefiles, but I'm not positive about the other vector formats (I'd guess DXF can probably be read). I've never done any of that though. Let me ask you...are you specifically trying to avoid using ENVI? Like maybe you need to run code on a machine that has IDL but not ENVI? Because if you're not trying to avoid ENVI specifically and are just trying to make something happen programatically that you've done interactively with ENVI, you should be aware that there are a lot of IDL routines that you get with ENVI that allow you to manipulate ENVI from an IDL program. This might make your life a lot easier.

Subject: Re: Subset Image

Posted by [Julio\[1\]](#) on Sun, 18 Sep 2005 18:58:46 GMT

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Hi, Jeff,

No, I'm not trying to avoid ENVI, I have both installed here. The problem is I have lot of images to be processed and manipulated. So I want to use IDL to make the same that ENVI does, but not interactively. I know there are lot of codes to use ENVI with IDL, and I have tried to use them, but with no success.

The point is: I must read vector files (EVF, DXF or Shapefile) and use it to cut off my big images and make small images... And I haven't found some code to make it. I know it must be possible, but I'm not a professional programmer... :-)

Regards,
Julio

Jeff N. escreveu:

> I'm sure that IDL can read shapefiles, but I'm not positive about the
> other vector formats (I'd guess DXF can probably be read). I've never
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> allow you to manipulate ENVI from an IDL program. This might make your
> life a lot easier.

Subject: Re: Subset Image
Posted by [Jeff N.](#) on Sun, 18 Sep 2005 21:04:00 GMT
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Julio,

A old thread in this newsgroup may be useful for you. Try searching for "Apply a shapefile to raster images in IDL" if this link doesn't work.....

http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/4b90c8f4a2c7b715/6e29cac0ee6fe976?q=Apply+a+shapefile+to+raster+images+in+IDL&rnum=1#6e29cac0ee6fe976

Jeff

Subject: Re: Subset Image
Posted by [Julio\[1\]](#) on Sun, 18 Sep 2005 22:10:04 GMT
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Thanks Jeff. I didn't use the "shapefile" word in the search, so I had not visited it. I think it will show me some shortcuts.

Thanks, this will be very useful to solve my problem!

Júlio.

Subject: Re: Subset Image
Posted by [Jeff N.](#) on Mon, 19 Sep 2005 03:20:25 GMT
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Anytime :) Hope it helps!

Jeff
