
Subject: Raster to Vector

Posted by [julio](#) on Thu, 07 Apr 2005 18:20:00 GMT

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Hello there,

A have a TIF image and I want to make a raster to vector conversion of some DN values.

I'm using rtf_doit:

```
values = [4096] ; the DN I want to convert
l_name = [values]
out_names = dir+'testing_' + $
strcompress(string(values),/remove_all) + '.evf'
in_memory = lonarr(n_elements(values))
```

```
envi_toggle_catch
envi_doit, 'rtv_doit', $
fid=fid, pos=pos, dims=dims, $
values=values, l_name=l_name, $
in_memory=in_memory, $
out_names=out_names
```

But I have no success... I have the message:

```
% Subscript range values of the form low:high must be >= 0, < size,
with low <= high: <BYTE ( 179)>.
% Execution halted at: EVF_INIT_FILE
```

What could be the problem???

Any comments welcome.

Cheers,
Julio

Subject: Re: Raster to Vector

Posted by [David Fanning](#) on Fri, 08 Apr 2005 16:46:12 GMT

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Julio writes:

```
> This code was copied from ENVI help. I just changed the 'values'
> field. I don't know what 'rtv_doit' does, so I have no idea what is
> the problem with this code. I only want to convert some DN values
> inside my raster image to vector...
```

Well, then, you made a mistake when you put "values" inside of square brackets. It is not doing what you think it is doing, as you would discover if you follow through on my previous suggestions. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Raster to Vector

Posted by [David Fanning](#) on Fri, 08 Apr 2005 16:54:36 GMT

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David Fanning writes:

> Julio writes:

>

>> This code was copied from ENVI help. I just changed the 'values'
>> field. I don't know what 'rtv_doit' does, so I have no idea what is
>> the problem with this code. I only want to convert some DN values
>> inside my raster image to vector...

>

> Well, then, you made a mistake when you put "values" inside
> of square brackets. It is not doing what you think it is doing,
> as you would discover if you follow through on my previous
> suggestions. :-)

Sorry, I'm testy this morning. I'm trying to get something done and I am plagued with e-mails from people not following through on earlier suggestions. I'm implementing a "Don't Ask If You Don't Want to Read the Answer" policy from now on. :-)

If you got this code from the ENVI manual, then I am going to suggest (Heaven forbid!) the manual is wrong, cause that code don't do what it is suppose to do!

A couple of judicious PRINT statements in or about the location I suggestion yesterday should prove me right. :-)

Cheers,

David

--

David Fanning, Ph.D.
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Subject: Re: Raster to Vector
Posted by [julio](#) on Sun, 10 Apr 2005 15:48:30 GMT
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Ok David... I understood the code is not doing what I supposed, so I guess the ENVI manual is really wrong.
I'll try to follow your suggestions to solve my problem. Take it easy man, it happens with people not familiar with IDL. I'm not programmer and I'm using this tool to solve the problems of my thesis :-)

Thanks at any rate!
Julio

> Sorry, I'm testy this morning. I'm trying to get something done
> and I am plagued with e-mails from people not following through
> on earlier suggestions. I'm implementing a "Don't Ask If You
> Don't Want to Read the Answer" policy from now on. :-)
>
> If you got this code from the ENVI manual, then I am going
> to suggest (Heaven forbid!) the manual is wrong, cause that
> code don't do what it is suppose to do!
>
> A couple of judicious PRINT statements in or about the location
> I suggestion yesterday should prove me right. :-)
>
> Cheers,
>
> David

Subject: Re: Raster to Vector
Posted by [David Fanning](#) on Sun, 10 Apr 2005 16:45:22 GMT
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Julio writes:

- > Ok David... I understood the code is not doing what I supposed, so I
- > guess the ENVI manual is really wrong.
- > I'll try to follow your suggestions to solve my problem. Take it easy
- > man, it happens with people not familiar with IDL. I'm not programmer
- > and I'm using this tool to solve the problems of my thesis :-)

Actually, I'm sympathetic. I was in the same boat last week when I just wanted XML to work, I didn't want to know all the theoretical details! You must have caught me in the midst of a perfect storm. :-)

Cheers,

David

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Raster to Vector
Posted by [julio](#) on Sun, 10 Apr 2005 22:37:12 GMT
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Forget it, David...
I don't remember how many times you help me with your codes...
Actually, this IDL group helps a lot of people due to people like you :-)

regards,
Julio

Subject: Re: Raster to Vector
Posted by [jnettle1](#) on Thu, 14 Apr 2005 08:20:26 GMT
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For what it's worth, I don't think the help file is wrong, I think you've copied it wrong. I think the real problem is that you're setting `l_names` wrong. In the example you're giving, values is 4096, and then you set `l_names` to the same thing, so `l_names` is also 4096. But `l_names` is supposed to be a string array (`l_names` stands for level names). This is how they set it in the example code:

```
envi_file_query, fid, ns=ns, nl=nl, $  
  class_names=class_names  
  pos = [0]
```

```
values = [1, 2, 3]
dims = [-1, 0, ns-1, 0, nl-1]
l_name = class_names[values]
```

where class_names are the names of the classes in the input image.
Yours looks like this:

```
values = [4096] ; the DN I want to convert
l_name = [values]
```

Try setting l_name to 'level4096' or something and see what you get.

Jeff

Julio wrote:

```
> Forget it, David...
> I don't remember how many times you help me with your codes...
> Actually, this IDL group helps a lot of people due to people like you
:-)
>
> regards,
> Julio
```
