Subject: Mask to ROI
Posted by Erik[1] on Fri, 02 Feb 2007 14:28:57 GMT
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Hi Folks,

A time ago I asked if I could cut a piece out of a ROI. Now I've created a mask of the ROI and edited the mask the way I wanted it to. This worked good for my analysis results, but I want the user to see the cutted ROI so I have to edit the DATA array from the ROI to modify the displayed ROI. This leads to the following question;

Is there a way to convert a mask into a ROI Data Array??

For example:

Mask[5,5]
00000
00100
01110
00100
00000

Needs to become:
ROIData [[2,1,0],[3,2,0],[3,3,0],[1,2,0]]

Please note that the ROI can be drawed when the first coordinate is connected with the second and so forth. The centered value in the mask should not be saved in the result; I only want the boundary points to draw my ROI.

I've tried to figure out a algorithm to trace the border when I got the first point, but this takes much time and I wonder if there ain't any simpler way to do it...

Help would be really appreciated!!

Subject: Re: Mask to ROI
Posted by btt on Mon, 05 Feb 2007 14:32:44 GMT
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Erik wrote:
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> the first point, but this takes much time and I wonder if there ain't
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> Help would be really appreciated!!
>

Hi,

Here's a newsgroup thread that might help.

http://tinyurl.com/ytdt35

Ben

Subject: Re: Mask to ROI
Posted by Karsten Rodenacker on Mon, 05 Feb 2007 22:12:27 GMT
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Possibly you should try to use contour procedure with keyword PATH_XY,
PATH_INFO, PATH_DATA_COORDS.
Regards
Karsten

Am Fri, 02 Feb 2007 15:28:57 +0100 schrieb Erik <janssen.e@gmail.com>:

> Hi Folks,
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Subject: Re: Mask to ROI
Posted by Erik[1] on Tue, 06 Feb 2007 17:39:42 GMT
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On 5 feb, 23:12, "Karsten Rodenacker" <karsten.rodenac...@gsf.de>
wrote:

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Thanks! I will check this out and post my findings!

Subject: Re: Mask to ROI
Posted by Erik[1] on Tue, 06 Feb 2007 19:31:18 GMT
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On 6 feb, 18:39, "Erik" <jansse...@gmail.com> wrote:
> On 5 feb, 23:12, "Karsten Rodenacker" <karsten.rodenac...@gsf.de>
> wrote:
>
>
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> Thanks! I will check this out and post my findings!

Wow I'm amazed! The countour function totally did the trick for me!

So for all future searchers; THE way to convert a MASK into a new ROI:

CONTOUR, mask, /PATH_DATA_COORDS, PATH_XY=data
newROI = obj_new('IDLgrROI', DATA = data)

Big thanks!!

Subject: Re: Mask to ROI
Posted by Karsten Rodenacker on Tue, 06 Feb 2007 20:12:41 GMT
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Don't forget the hint of Ben Tupper concerning Davids boundary procedure.
I am sure you will find out the problems inherent to the different
approaches.

I still hope somebody will find the time to implement real polygon (ROI)
intersections and unions etc.!

Going via a mask is in fact only a very rough way, resolution dependent
etc.!
Regards
Karsten

Am Tue, 06 Feb 2007 20:31:18 +0100 schrieb Erik <janssen.e@gmail.com>:

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