Subject: extracting pixel coordinates
Posted by gunvicsin11 on Mon, 12 Jun 2017 11:10:45 GMT
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Hi all,
    I have a 1000 by 1000 pixel array, I need to extract a 1D column
whose start point is (401,642)
and end point is (411,750)
anybody have some idea on this.
thanks

Subject: Re: extracting pixel coordinates
Posted by Matthew Argall on Mon, 12 Jun 2017 12:12:51 GMT
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How about this?

```
data = fltarr(1000,1000)
subdata = data[401:411, 642:750]
subdata = reform( subdata, 1, n_elements(subdata) )
help, subdata
```

Subject: Re: extracting pixel coordinates
Posted by natha on Mon, 12 Jun 2017 12:19:48 GMT
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On Monday, June 12, 2017 at 7:10:47 AM UTC-4, sid wrote:
> Hi all,
>   I have a 1000 by 1000 pixel array, I need to extract a 1D column
> whose start point is (401,642)
> and end point is (411,750)
> anybody have some idea on this.
> thanks

I am not sure what do you want. If you want to select the values from the start point to the end
point (straight line) you could try this:

```
xsel=[401:642]
ysel=[411:750]
```

The problem here is that the selecttion on X does not have the same number of elements as Y,
you should therefore interpolate:

```
xsel=congrid(xsel,n_elements(ysel),/int,/center,/minus_one)
```

And the result would be:

result=you_array(xsel,ysel)

Subject: Re: extracting pixel coordinates
Posted by Helder Marchetto on Mon, 12 Jun 2017 15:16:23 GMT
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On Monday, June 12, 2017 at 1:10:47 PM UTC+2, sid wrote:
> Hi all,
>   I have a 1000 by 1000 pixel array, I need to extract a 1D column
> whose start point is (401,642)
> and end point is (411,750)
> anybody have some idea on this.
> thanks

I'm also not sure what you would like to do, but I wrote a pro some time ago to calculate line profiles. Not only for lines, but also for polylines. Here is the link:
http://idl.marchetto.de/getting-line-profiles/

David also wrote something like this:
http://www.idlcoyote.com/ip_tips/image_profile.html

Cheers,
Helder