
Subject: Re: IDL Average Value Graphs
Posted by [Jean H.](#) on Thu, 17 Jul 2008 21:52:30 GMT
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> I needed the 2d coordinates because I'm dealing with FITS images, so I
> need to grab the value of each of the pixels in a given region, unless
> I'm missing an easier way to do this.

I am not familiar with FITS images, but I strongly believe you are missing an important IDL feature.
Read the help file under "Understanding Array Subscripts "

Elements of multidimensional arrays also can be specified using only one subscript, in which case the array is treated as a vector with the same number of points.

A0,0	A0,1
A0,1	A1,1
A0,2	A1,2

In the 2 by 3 element array, A, element A[2] is the same element as A[0, 1], and A[5] is the same element as A[1, 2].

>
> I have one more question about POLYFILLV. If a line goes
> through a pixel, does it not include this pixel in the region? Does
> it include it if it is more than half way inside the region? If so,
> what happens to perfectly split pixels?
>
> Thanks a lot for the help,
> Andy

the algorithm used is a bit fuzzy.... people, including myself, often complain here that some pixels get selected while other do not (make a few tests). As David mentioned, IDLgrROI provides better results. Now it all depends on what you are doing... if you select a few 100 000 pixels, you might not care that much about having a few extra/missing pixels!

Jean
