
Subject: Re: Adding elements in an Array
Posted by on Mon, 23 Sep 2013 20:48:52 GMT
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On 2013-09-23 22:36, David Fanning wrote:

> David Fanning writes:

>

>>

>> wlandsman writes:

>>

>>> "Normally, REBIN uses bilinear interpolation when magnifying and neighborhood averaging when minifying."

>>

>> I suppose it would take me a couple of days scratching my head to figure
>> this out!

>>

>> Do you know this to be true, or are you just taking their word for it?

>> I'm not sure "neighborhood averaging" means what you appear to think it
>> means. If you are right, it certainly doesn't mean what I think it

>> means! And, in any case, I wouldn't bet the satellite on it until I ran

>> a couple of tests. :-)

>

> I guess you are right. Wow! I learn something every day about IDL!

>

> IDL> a = [10, 20, 5, 6, 18, 17, 1, 30, 2]

> IDL> print, rebin(a, 3)

> 11 13 11

> IDL> print, rebin(a, 3, /sample)

> 10 6 1

11 and 13 are not the mean values of [10, 20, 5] and [6, 18, 17], respectively. 11 happens to be the mean of [1, 30, 2] but in general you need floating point calculations:

IDL> print, rebin(float(a), 3)

11.6667 13.6667 11.0000
