
Subject: Re: replacing "NaN" values using interpolation in IDL

Posted by [Jeremy Bailin](#) on Thu, 17 Jan 2013 15:05:11 GMT

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On 1/17/13 4:02 AM, idlhelp wrote:

> Dear all, I have an data array. I have many "NaN" values. I want to replace those "NaN" values by the nearby values either using interpolation. Is there any way to do that in IDL.

>

> Thanks in advance

>

Yes, there is.

Oh, you want to know how? ;-)

I would do something like this, if I had an array of locations x and a data array data:

```
; sample data
```

```
x = [1., 2., 3., 5., 7., 7.5, 9., 12., 12.1]
```

```
data = [0., !values.f_nan, 10., 15., !values.f_nan, !values.f_nan, 5.,  
4., 5.]
```

```
; figure out where there are NaNs and where the useful data are
```

```
gooddata = where(data eq data, ngooddata, $  
    comp=baddata, ncomp=nbaddata)
```

```
; interpolate at the locations of the bad data using the good data
```

```
if nbaddata gt 0 then begin
```

```
    data[baddata] = interpol(data[gooddata], x[gooddata], x[baddata])
```

```
endif
```

-Jeremy.
