Subject: Re: interpolation for resizing Posted by Jean H. on Fri, 05 Dec 2008 16:04:50 GMT View Forum Message <> Reply to Message

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> I guess you didn't read my question properly (although I maybe didn't
> have to ask it in this thread to avoid this, but I didn't want to make
> a new thread because of David's post several days ago). I'm not trying
> to resize anything. I just want the -999 or NaN (I make them with!
> Values.F NAN option btw.) values to have a value in the b array that
> is calculated by interpolation (for instance: the IDW of the
> surroundig pixels in a 3x3 window).
> So sorry for the mixup and thanks if you guys still feel like finding
> a solution for this.
Hi.
ah, now you give more information... a 3*3 window, and IDW... well, the
"do it yourself" solution is the easiest... You can put that in a
function or else.
pro test interpol
 nx=10
 nv=10
 data = findgen(nx,ny)
 data[2,2] = !VALUES.F_NAN
 data[6,6] = !VALUES.F NAN
 ;print,data
 badldx = where(finite(data) eq 0, countBad)
 print, 'Bad index: ', badldx
 ;badNeighbors = rebin(badIdx, 8 ,countBad)
 badNeighbors = transpose(rebin(badIdx, countBad,8))
 Get the index of the cells in the Moore neighborhood of each bad
;pixel (you deal with the pixels on the border...)
 badNeighbors[0,*] -= 1
 badNeighbors[1,*] += 1
 badNeighbors[2,*] -= nx
 badNeighbors[3,*] -= nx-1
 badNeighbors[4,*] -= nx+1
 badNeighbors[5,*] += nx
 badNeighbors[6,*] += nx-1
 badNeighbors[7,*] += nx+1
```

```
print, 'Neighbors of bad index: ',badNeighbors

goodValue = (data[badNeighbors[0,*]] + data[badNeighbors[1,*]] +$
data[badNeighbors[2,*]] + data[badNeighbors[3,*]] +$
data[badNeighbors[4,*]] + data[badNeighbors[5,*]] +$
data[badNeighbors[6,*]] +data[badNeighbors[7,*]])/8
;Adjuste the equation yourself.

print,'Interpolated values: ', goodValue

data[badIdx] = goodValue

print,'The new data: ', data
end

Jean
```