

Posted by [Rob Dimeo](#) on Tue, 22 Feb 2005 21:44:45 GMT

Hi all,

I have been messing around a bit with blurring an image to be used for an intro for a talk. What I want to do is display a series of color images over time that begin with a very blurry version first and end with the sharp version. My knowledge of image processing is limited so I'm hoping that you experts can help me out a bit. The original sharp image is a PNG file. I use TV to display the image in a window that is the same size as the image. I've tried the MEDIAN filter where the width decreases with each image in the sequence but I'm not happy with the band of unblurred image that extends around the perimeter of the image. EDGE_TRUNCATE takes care of that in SMOOTH but the effect is still not great. There seems to be a "mixing" of colors when I use SMOOTH that isn't present when I use MEDIAN which is also annoying. I'm looking for a very smooth and relatively seamless transition.

If it helps the code below shows what I've been doing. Any suggestions would be appreciated.

Thanks,

Rob

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pro image_smooth_code,img_file  
xsize = 835 & ysize = 417  
img = read_png(img_file,r,g,b)  
tvlct,r,g,b  
  
tlb = widget_base(tlb_frame_attr = 5)  
win = widget_draw(tlb,xsize = xsize,ysize = ysize)  
window,/free,/pixmap,xsize = xsize,ysize = ysize  
winpix = !d.window  
widget_control,tlb,/realize  
  
widget_control,win,get_value = winvis  
n = 20  
i = 3+2*indgen(n)  
  
for i= 0,n-1 do begin  
    wset,winpix  
    tv,smooth(img,n-i+1,/edge_truncate)  
; tv,median(img,n-i+1)  
    wset,winviz  
    device,copy = [0,0,xsize,ysize,0,0,winpix]
```

```
endfor  
wset,winpix  
tv,img  
wset,winvis  
device,copy = [0,0,xsize,ysize,0,0,winpix]  
widget_control,tlb,/destroy  
wdelete,winpix  
end
```
