Subject: Re: How to eliminate smaller blob from label_region image Posted by Wout De Nolf on Tue, 23 Aug 2011 11:18:20 GMT

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On Mon, 22 Aug 2011 23:30:15 -0700 (PDT), vijay s
<vijayans.in@gmail.com> wrote:
> hi,
>
>
     thanks for the help and that works fine, now i have the required
> blob (only 2 blob, both are separated and adjacent to each other).
> Now i want to merge both and make as a single blob and want to find
> the new center.
> thanks
What do you mean by "new center"? I suppose the center of mass of the
combination of the two blobs? If you know you must have two blobs, you
don't need to remove the small blobs. Just get the blob index of the
two largest blobs and calculate the center of mass of the combined
blob.
: Get image
path=FILEPATH('pollens.jpg',SUBDIR=['examples','demo','demod ata'])
READ JPEG, path, image
; Get blob indices
b = LABEL REGION(image gt 160)
; Get population and members of each blob
h = HISTOGRAM(b, REVERSE_INDICES=r)
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; Blob indices of the two largest blobs
h[0]=0; background
ind=(reverse(sort(h)))[0:1]; two largest
ind=b[r[r[ind]]]; get blob indices

; Get the center of mass of the combined blob
b=b eq ind[0] or b eq ind[1]
totalMass = Total(b)
s=size(b,/dim)
xcm = Total( Total(b, 2) * lindgen(s[0]) ) / totalMass
ycm = Total( Total(b, 1) * lindgen(s[1]) ) / totalMass
: Show result
```

loadct,3 tvscl,b tmp=indgen(11)-5 plots,xcm,ycm+tmp,/device,color=150 plots,xcm+tmp,ycm,/device,color=150 print,'Center of mass: ',xcm,ycm