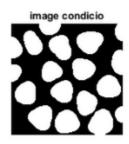
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E9

```
im=imread('blob3.tif');
imshow(im), title('image condicio')
mark=im;
mark(2:end-1,2:end-1) = 0;
figure, imshow(mark),title('markers')
ee=strel('disk',1);
dilc=imdilate(mark,ee) & im;
figure, imshow(dilc),title('dilatacio condicional')
for i =1:8
    dilc=imdilate(dilc,ee) & im;
end
figure, imshow(dilc),title('8 x dilatacio condicional')
rec=imreconstruct(mark,im);
figure, imshow(rec),title('resconstruccio ')
res=imsubtract(im,rec);
figure, imshow(res),title('resultat')
```

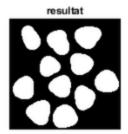










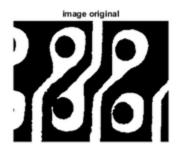


Reconstruccio

```
im=imread('pcbholes.tif');
imshow(im),title('image original')
neg=~im;
figure, imshow(neg),title('negatiu')
mark=neg;
mark(2:end-1,2:end-1) = 0;
figure, imshow(mark),title('markers')

rec=imreconstruct(mark,neg);
figure, imshow(rec),title('reconstruccio')

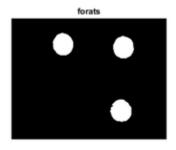
forats=imsubtract(neg,rec);
figure, imshow(forats), title('forats')
```





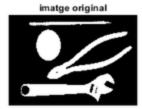


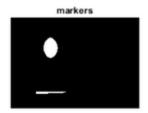




Reconstruccio 2

```
im=imread('tools.tif');
imshow(im), title('imatge original')
ee=strel('disk',7);
mark=imerode(im,ee);
figure, imshow(mark), title('markers')
rec=imreconstruct(mark,im);
figure, imshow(rec), title('reconstruccio')
```

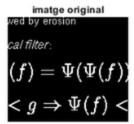






Reconstruccio 3

```
im=imread('letters.tif');
imshow(im), title('imatge original')
mask=zeros(8);
mask(1,:)=1;
mask(:,4)=1;
mask(:,5)=1;
mark=imerode(im,mask);
figure, imshow(mark), title('markers')
rec=imreconstruct(mark,im);
figure, imshow(rec), title('reconstruccio')
```







Openinf & closing

```
im=imread('blob.tif');
imshow(im), title('imatge original')
ee=strel('disk',5);
op=imopen(im,ee);
cl=imclose(im,ee);
figure, imshow(op), title('opening')
figure, imshow(cl), title('closing')
im=imread('gear.tif');
imshow(im), title('imatge original')
ee=strel('disk',20,0);
op=imopen(im,ee);
figure, imshow(op), title('opening')
dents=imsubtract(im,op);
figure, imshow(dents), title('dents')
eti =bwlabel(dents);
figure,imshow(eti,[]),title('imatge etiquetada')
```

impixelinfo





opening

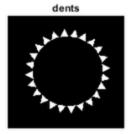


imatge original

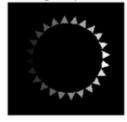


opening





imatge etiquetada

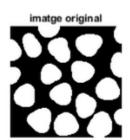


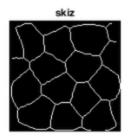
Pixel info: (X, Y) Pixel Value

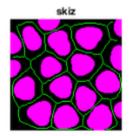
SKIZ

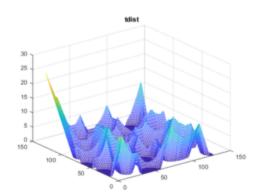
```
im=imread("blob3.tif");
imshow(im), title('imatge original');
skiz=bwskel(~im);
figure, imshow(skiz), title('skiz')
figure, imshow(imfuse(skiz,im)), title('skiz')

tdist=bwdist(im);
figure,mesh(tdist), title('tdist')
```









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