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histograma per detectar al threshold moving averagesoperacions morfologiques	
<pre>im = imread("arros.tif"); bw1 = im > 100; bw2 = im > 150; bw3 = im > 115;</pre>	
<pre>figure; subplot(2,2,1);imshow(dil);ti subplot(2,2,2);imshow(bw1);ti subplot(2,2,3);imshow(bw2);ti subplot(2,2,4);imshow(bw3);ti</pre>	tle('llindar 100'); tle('llindar 150');
Ori	llindar 100
llindar 150	llindar 115

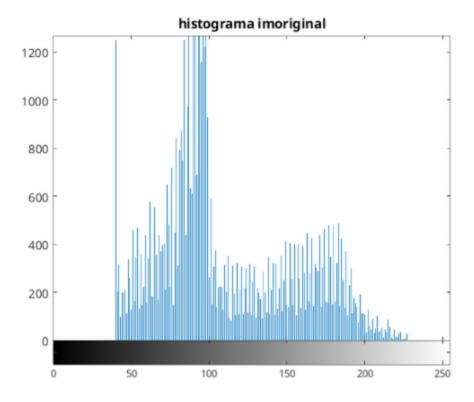




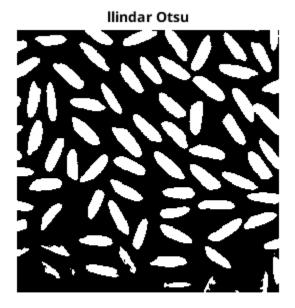


histograma per detectar al threshold

```
figure; imhist(im); title('histograma imoriginal');
pause(0.5);
```



```
th = graythresh(im); % per defecte utilitza Otsu, maximitza variança inter
bw4 = im2bw(im, th);
figure; imshow(bw4); title('llindar Otsu');
pause(0.5);
```



moving averages

```
imtxt = imread('textsheet.jpg');
h=ones(31);
h=h/31/31;
K = 25;
res2=imfilter(imtxt,h,'conv');
res = imtxt > (res2 - K);
figure, imshow(res),title('moving averages');
pause(0.5);
```

moving averages

Virginia Tech
Southern Cal
Rensselaer
Colorado State
Case Western
Texas A&M
lowa
Michigan State

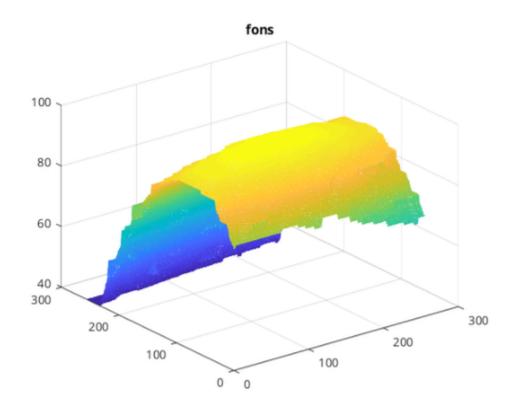
operacions morfologiques

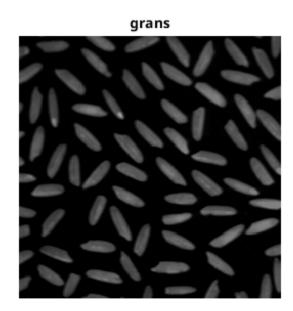
```
ee = strel('disk', 20);
bg = imopen(im, ee);
figure, mesh(bg),title('fons');
pause(0.5);

res = im-bg;

figure, imshow(res),title('grans');
pause(0.5);

th = graythresh(res); % per defecte utilitza Otsu, maximitza variança inter final = im2bw(res, th);
figure, imshow(final),title('binaritzada');
pause(0.5);
```







etiquetatje

```
[eti, num] = bwlabel(final, 4);

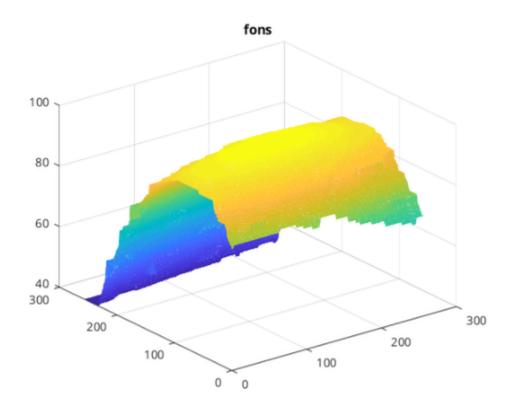
figure, imshow(eti, []),title('etiquetada');
pause(0.5);
colormap('colorcube');

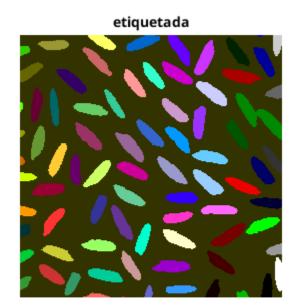
Dades = regionprops(eti, 'all');
area50 = Dades(50).Area;
Arees = [Dades.Area];

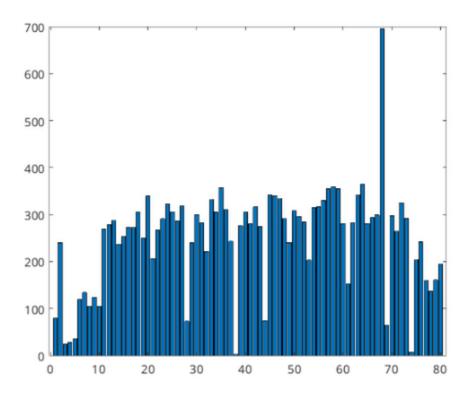
figure; bar(Arees);
pause(0.5);

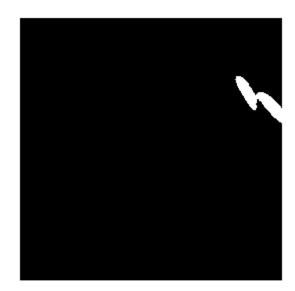
max_A = max(Arees);
gros = find(Arees == max_A);

figure; imshow(eti==gros);
pause(0.5);
```









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