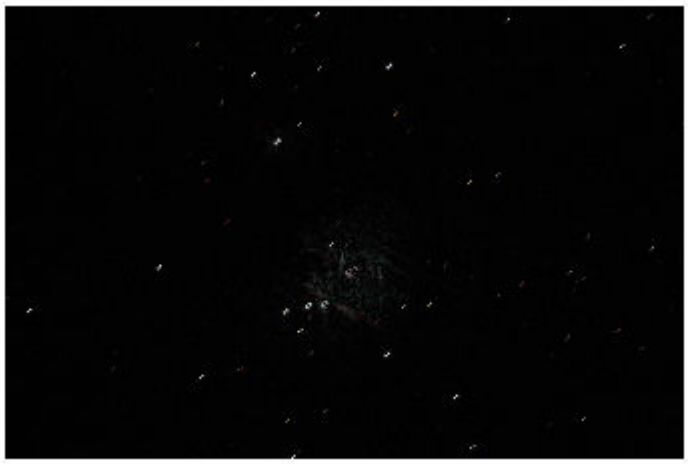
Sessió 2.2 - 24/02

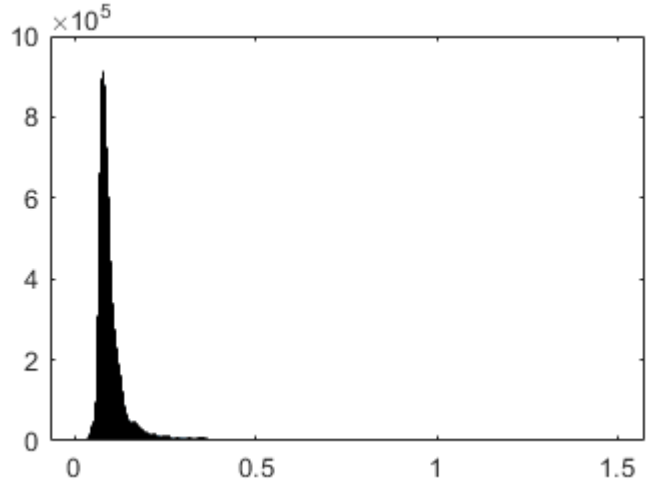
```
A = double(imread('_MG_7735.jpg'))/255;
B = double(imread('_MG_7737.jpg'))/255;
C = abs(double(A)-double(B));
imshow(C);
```



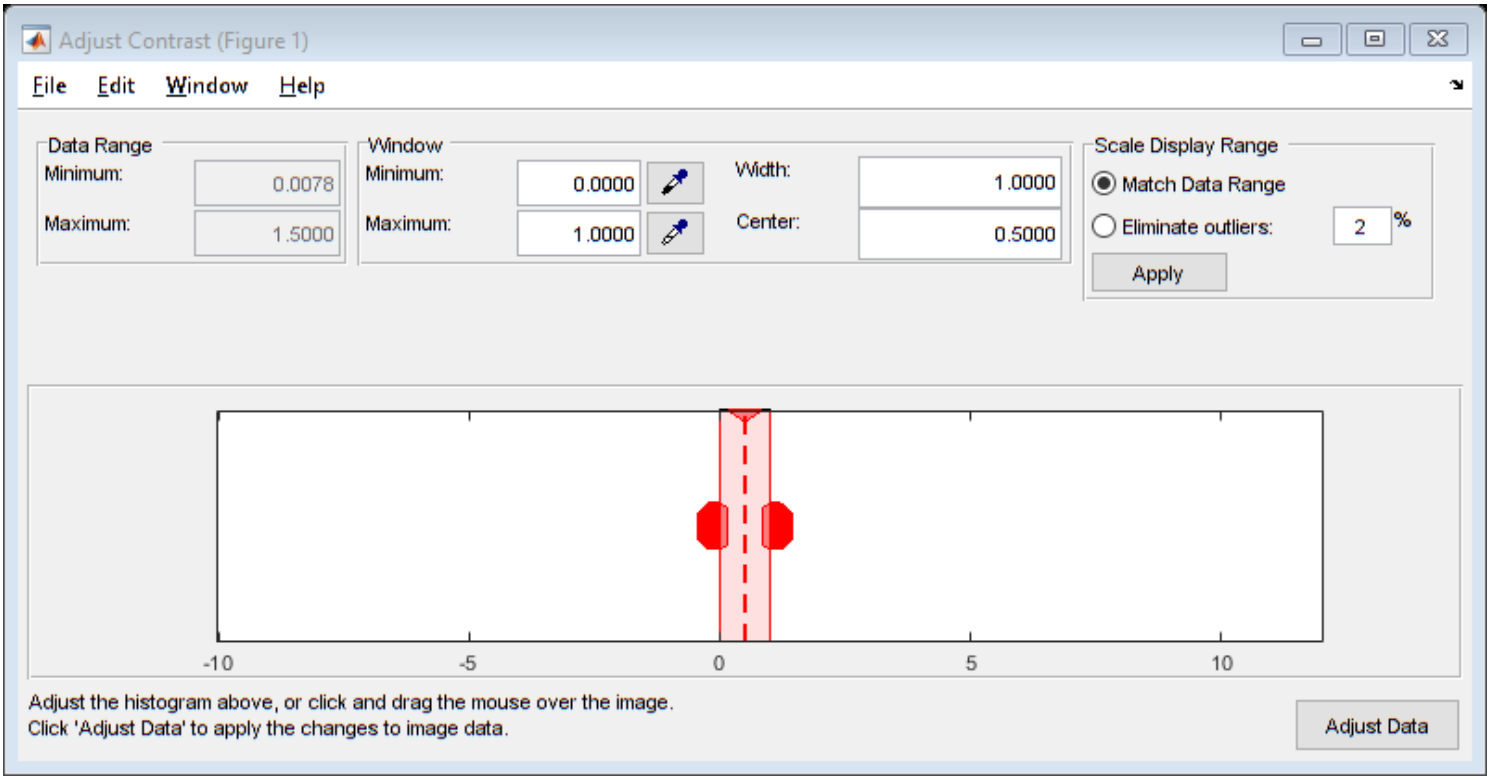
```
tmp = imtranslate(B,[20,-20]); % comprobado restando pixels
new = A - tmp;
imshow(new); % comprobar que estan totalmente alineadas
```

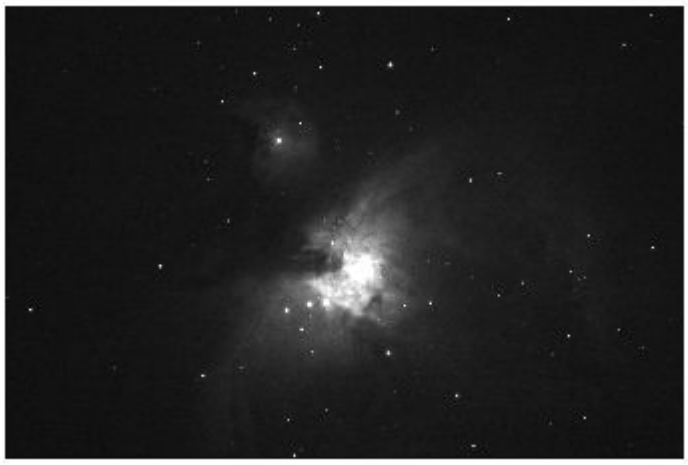
```
D = (A+tmp/2);
imshow(D);
```

```
% incrementar la V para la intensidad del HSV y volverla a RGB
HSV = rgb2hsv(D);
V = HSV(:,:,3); % hue, saturacio, intensidad
histogram(V);
```




```
imshow(V);
imcontrast;
```





```
%J = arrayfun(@myfunctionE2,double(V));
%histogram(J);
%I = hsv2rgb(HSV);
%imshow(I);
```

Video Background substractor

```
%V = VideoReader('atrium.mp4');
%background = rgb2gray(readFrame(V));
%imshow(background);
% while hasFrame(V)
    %frame = rgb2gray(readFrame(V));
    %Dif = abs(frame - background) > 30;
    %D = (Dif(:,:,1) + Dif(:,:,2) + Dif(:,:,3)) > 0;
```

```
    %imshow(Dif);
    %drawnow
    %background = 0.9 * background + 0.2 * frame; % filtro de adaptacion lento
%end
```

Reduïr el soroll:

```
% convulació
I = imread("lena_gray_512.tif");
%h = ones([3,3])/9; % window. 1/9 para la media aritmetica. sino todo blanco (255)
h = [1,1,1;1,6,1;1,1,1]/14; %poniendo un 2 le das mas peso
J = imfilter(I, h);
montage({I,J});
```