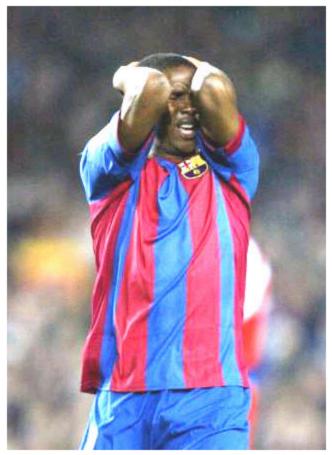
```
im = imread("team1.jpg");
figure, imshow(im), title('model')
im1 = imread("team2.jpg");
im2 = imread("team5.jpg");
im3 = imread("team11.jpg");
im4 = imread("team12.jpg");
figure, imshow(im1), title('model test 1')
figure, imshow(im2), title('model test 2')
figure, imshow(im3), title('model test 3')
figure, imshow(im4), title('model test 4')
```

## model



model test 1



model test 2



model test 3



model test 4



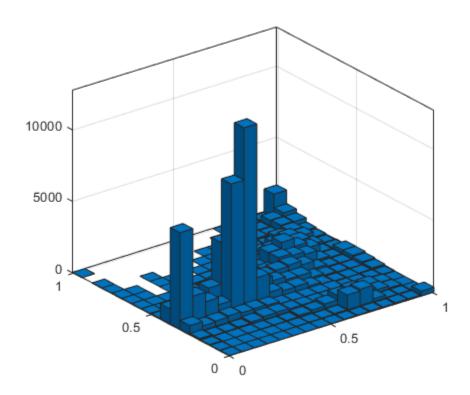
## Normalització RGB retorna matriu 16x16 li pasem im a color

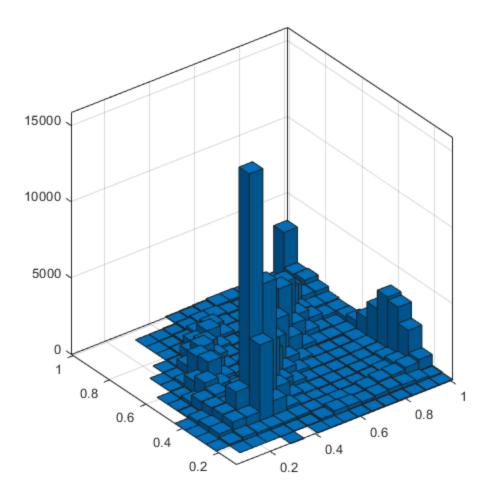
```
h = normalitzar(im);
h1 = normalitzar(im1);
h2 = normalitzar(im2);
h3 = normalitzar(im3);
h4 = normalitzar(im4);

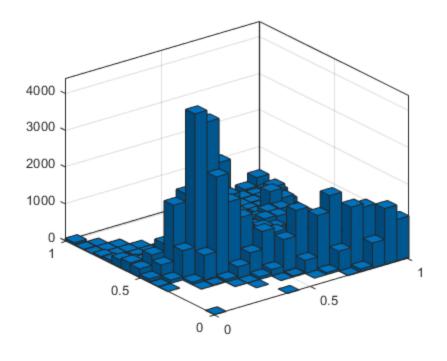
% Com h es 1x1 no pot fer aquest
%sim(1) = sum(min(h, h1), 'all')
%sim(2) = sum(min(h, h2), 'all')
%sim(3) = sum(min(h, h3), 'all')
%sim(4) = sum(min(h, h4), 'all')
%figure, bar(sim), title('similitud')
```

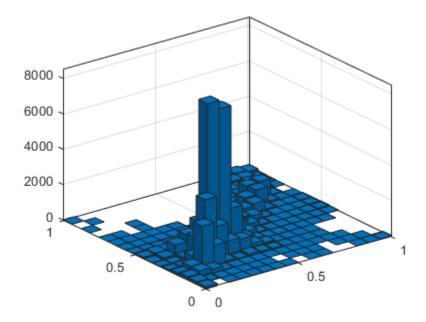
model test 4

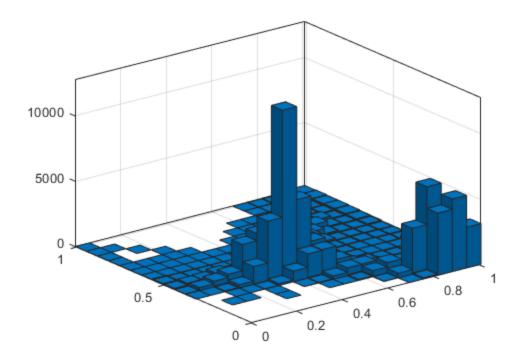












## Suavitzat - Com h es 1x1 no pot fer aquest

%sim(2) = sum(min(h, h2), 'all')

%h = imgaussfilt(h, 0.5);

```
%h2 = imgaussfilt(h1, 0.5);
%h3 = imgaussfilt(h2, 0.5);
%h4 = imgaussfilt(h3, 0.5);
%h5 = imgaussfilt(h4, 0.5);
%sim(1) = sum(min(h, h1), 'all')
sim(2) = sum(min(h, h2), 'all')
sim(3) = sum(min(h, h3), 'all')
%sim(4) = sum(min(h, h4), 'all')
%figure, bar(sim), title('similitud amb histos suavitzats')
Patches
patch = imcrop(im);
patch1 = imcrop(im1);
patch2 = imcrop(im2);
patch3 = imcrop(im3);
patch4 = imcrop(im4);
h = normalitzar(patch);
h1 = normalitzar(patch1);
h2 = normalitzar(patch2);
h3 = normalitzar(patch3);
h4 = normalitzar(patch4);
%sim(1) = sum(min(h, h1), 'all')
```

```
%sim(3) = sum(min(h, h3), 'all')
%sim(4) = sum(min(h, h4), 'all')
%figure, bar(sim), title('similitud patches')
```



```
function h = normalitzar(im)
    r=im(:,:,1);
    g=im(:,:,2);
    b=im(:,:,3);
    I = double(r + g + b);
    ri = double(r)./I;
    gi = double(g)./I;
    bi = 1.0 - ri - gi;
    aux = cat(3,ri,gi,bi);
    figure, imshow(aux), title('normalitzat')
    h = histogram2(ri, gi, 16);
```

end

Published with MATLAB® R2022a