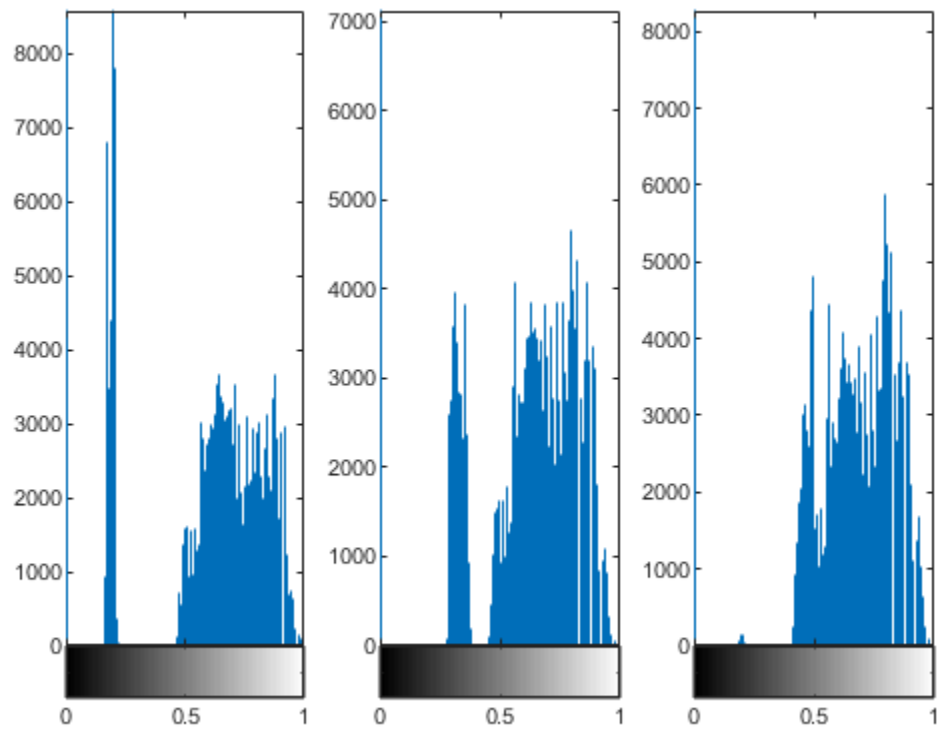
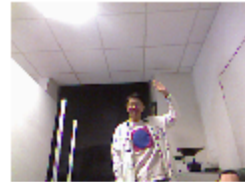

TP5

```
img1=double(load('nan1.txt'))/3975;
img2=double(load('nan2.txt'))/4068;
img3=double(load('nan3.txt'))/4068;
imgCouleur1=imread('KinectSnapshot-10-24-05.bmp');
imgCouleur2=imread('KinectSnapshot-10-24-27.bmp');
imgCouleur3=imread('KinectSnapshot-10-24-42.bmp');
figure(1);
subplot(1,3,1);imshow(img1,[]);
subplot(1,3,2);imshow(img2,[]);
subplot(1,3,3);imshow(img3,[]);
figure(2);
subplot(1,3,1);imhist(img1);
subplot(1,3,2);imhist(img2);
subplot(1,3,3);imhist(img3);
figure(3);
subplot(1,3,1);imshow(imgCouleur1,[]);
subplot(1,3,2);imshow(imgCouleur2,[]);
subplot(1,3,3);imshow(imgCouleur3,[]);
img1Seg=(img1>0.15)&(img1<0.25);
img2Seg=(img2>0.25)&(img2<0.4);
img3Seg=(img3>0.4)&(img3<0.55);
figure(4);
subplot(1,3,1);imshow(img1Seg,[]);
subplot(1,3,2);imshow(img2Seg,[]);
subplot(1,3,3);imshow(img3Seg,[]);

%les seuils utilisés ne sont pas identiques pour chaque image.
```

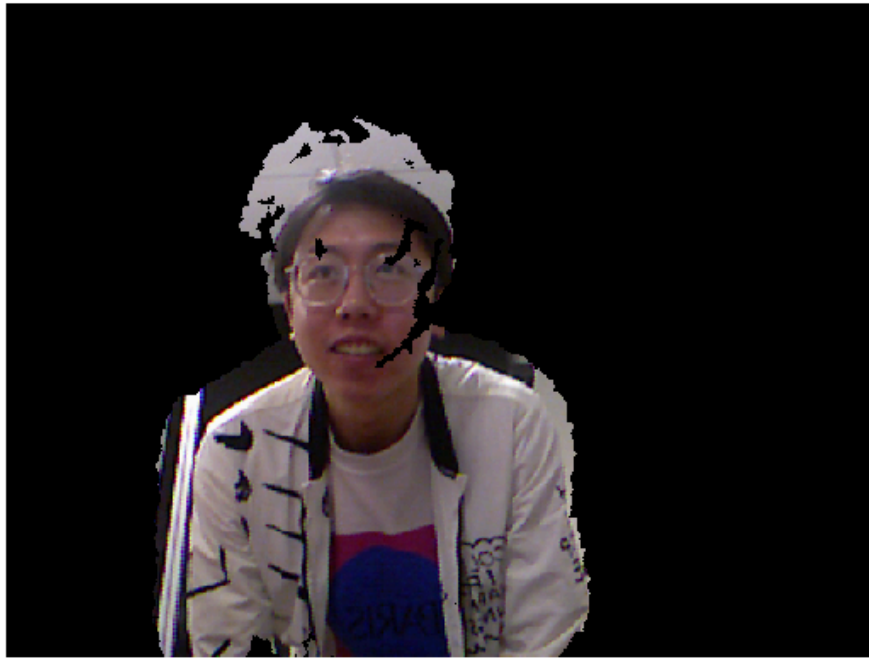




```
imgP1=uint8(img1Seg).*imgCouleur1(:,:,1);  
imgP2=uint8(img1Seg).*imgCouleur1(:,:,2);  
imgP3=uint8(img1Seg).*imgCouleur1(:,:,3);  
figure(5);  
subplot(1,3,1);imshow(imgP1,[]);  
subplot(1,3,2);imshow(imgP2,[]);  
subplot(1,3,3);imshow(imgP3,[]);
```



```
imgR(:,:,1) = imgP1;  
imgR(:,:,2) = imgP2;  
imgR(:,:,3) = imgP3;  
figure(6);  
imshow(imgR,[]);
```



```
imgS_Inver=1-img1Seg;  
figure(7);  
imshow(imgS_Inver,[]);
```



```
imgP4=uint8(imgS_Inver).*imgCouleur1(:,:,1);  
imgP5=uint8(imgS_Inver).*imgCouleur1(:,:,2);  
imgP6=uint8(imgS_Inver).*imgCouleur1(:,:,3);  
figure(8);  
subplot(1,3,1);imshow(imgP4,[]);  
subplot(1,3,2);imshow(imgP5,[]);  
subplot(1,3,3);imshow(imgP6,[]);  
imgRF(:,:,1) = imgP4;  
imgRF(:,:,2) = imgP5;  
imgRF(:,:,3) = imgP6;  
figure(9);  
imshow(imgRF,[]);
```



```
imgF=imgR+imgRF;  
figure(10);  
imshow(imgF,[]);
```



Tester autre photo

```
imgP7=uint8(img2Seg).*imgCouleur2(:,:,1);  
imgP8=uint8(img2Seg).*imgCouleur2(:,:,2);  
imgP9=uint8(img2Seg).*imgCouleur2(:,:,3);  
figure(11);  
subplot(1,3,1);imshow(imgP7,[]);  
subplot(1,3,2);imshow(imgP8,[]);  
subplot(1,3,3);imshow(imgP9,[]);  
imgR1(:,:,1) = imgP7;  
imgR1(:,:,2) = imgP8;  
imgR1(:,:,3) = imgP9;  
figure(12);  
imshow(imgR1,[]);  
imgS_Inver1=1-img2Seg;  
figure(13);  
imshow(imgS_Inver1,[]);  
imgP10=uint8(imgS_Inver1).*imgCouleur2(:,:,1);  
imgP11=uint8(imgS_Inver1).*imgCouleur2(:,:,2);  
imgP12=uint8(imgS_Inver1).*imgCouleur2(:,:,3);  
figure(14);  
subplot(1,3,1);imshow(imgP10,[]);  
subplot(1,3,2);imshow(imgP11,[]);
```



```
subplot(1,3,3);imshow(imgP12,[]);  
imgRF1(:,:,1) = imgP10;  
imgRF1(:,:,2) = imgP11;  
imgRF1(:,:,3) = imgP12;  
figure(15);  
imshow(imgRF1,[]);  
imgF1=imgR1+imgRF1;  
figure(16);  
imshow(imgF1,[]);
```









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