

```
close all;
clear all;

X1=imread('man.tif');
I2=imread('woman.tif');

I1=rgb2gray(X1);
I2=rgb2gray(X2);

I1=double(I1)/255;
I2=double(I2)/255;

s1=size(I1);
s2=size(I2);

C1=fft2(I1,s1(1),s2(2));
figure
imshow(C1)
title('fft2(I1)')

Amp1=abs(C1);%sqrt(real(C1).^2+imag(C1).^2);

Phase1=angle(C1);%atan(imag(C1)./real(C1));

C2=fft2(I2,s1(1),s2(2));
figure
imshow(C2)
title('fft2(I2)')

Amp2=abs(C2);%sqrt(real(C2).^2+imag(C2).^2);
```