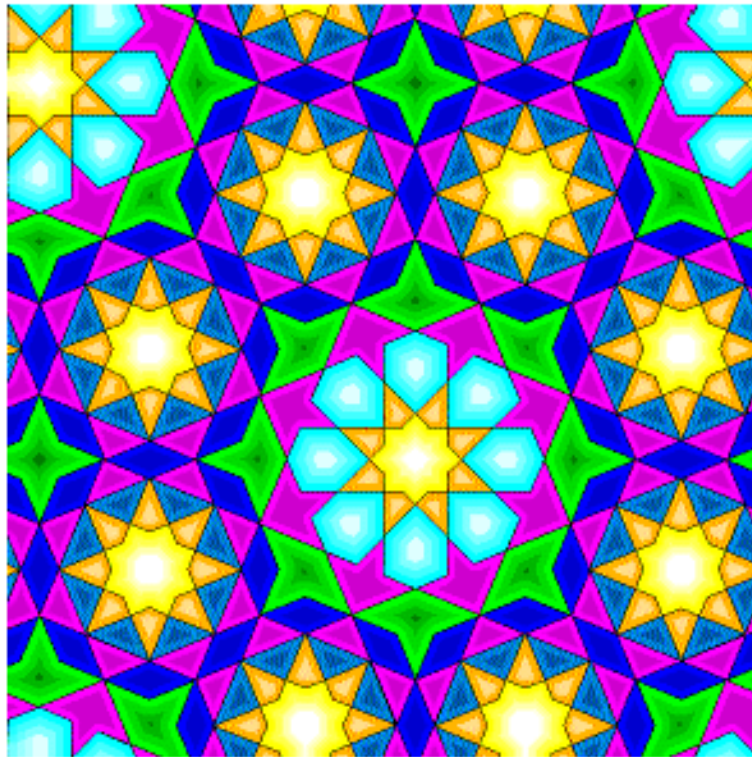


---

```
close all;
[gifImage cmap] = imread('octone.gif');
im = ind2rgb(gifImage, cmap);

% original image
figure;
imshow(im);

%convert white region to black
im(im(:,:,3) == 1) = 0;
```



## spatial domain

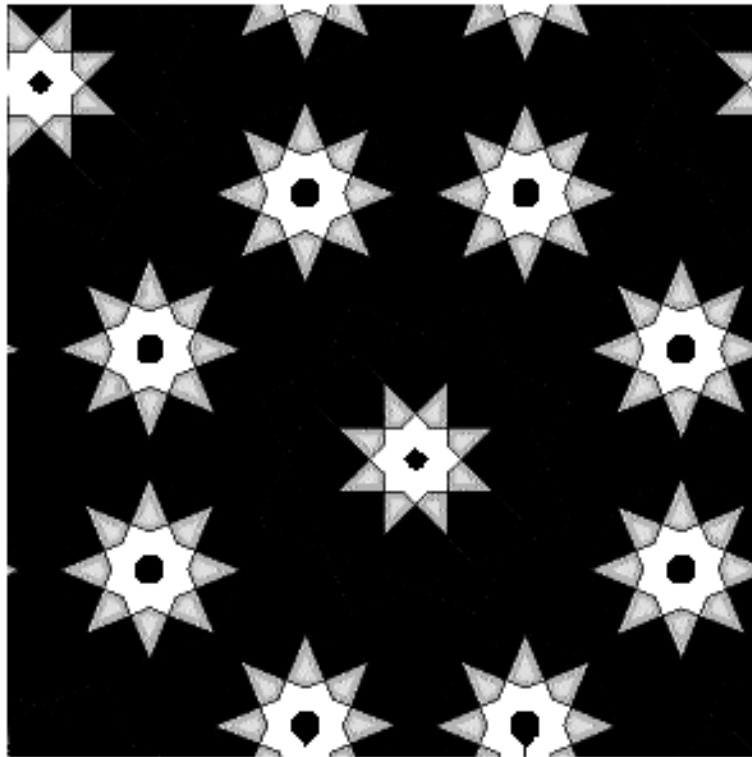
```
out1 = im(:,:,1);
out2 = im(:,:,2);

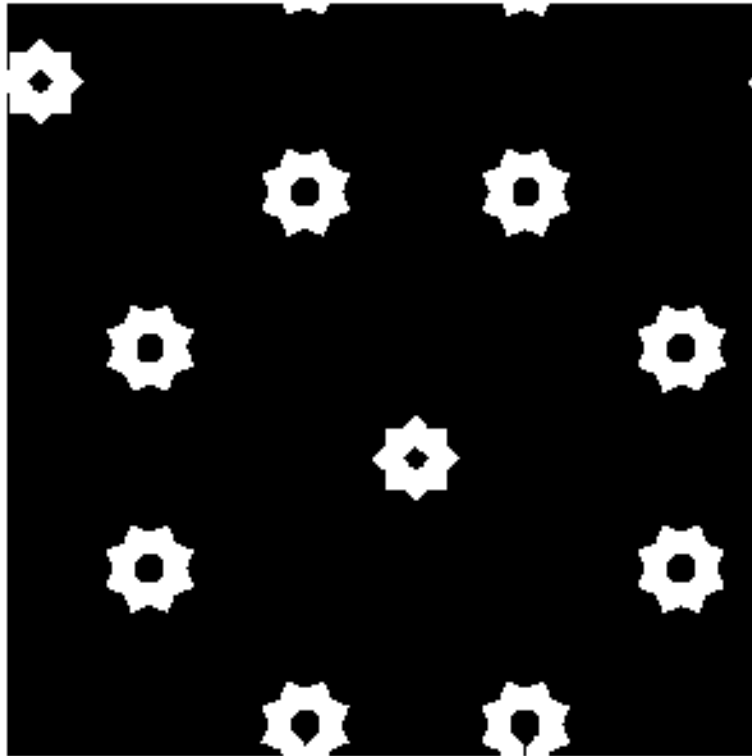
% Multiplication of red and green channel outputs non-zero only for yellow
% portion and 0 for all other portions
out3 = out1.*out2;

%display all the yellow shade stars
```

---

```
figure;  
imshow(mat2gray(out3));  
  
%display only pure yellow stars  
out3(out3 < 1) = 0;  
figure;  
imshow(mat2gray(out3));
```





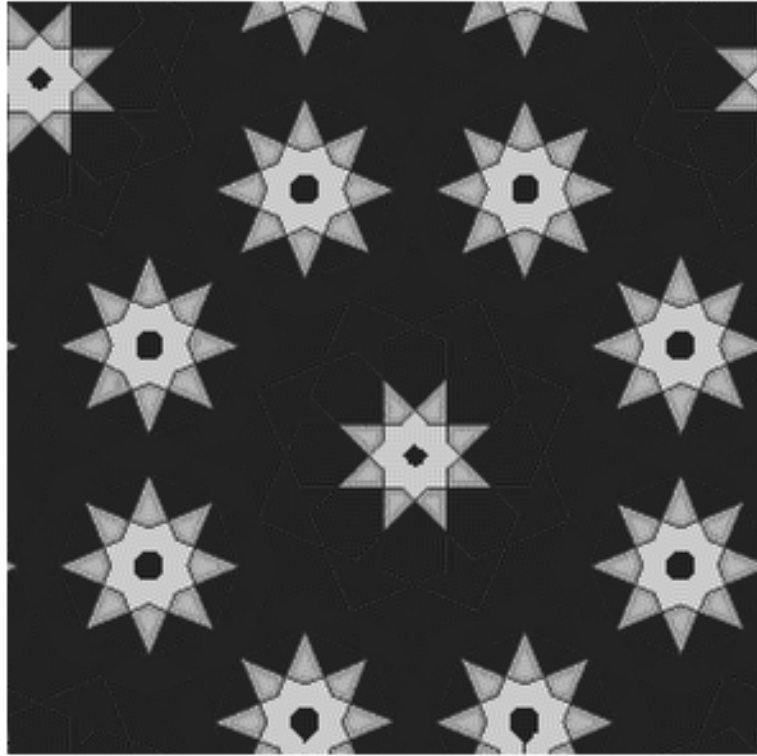
## frequency domain

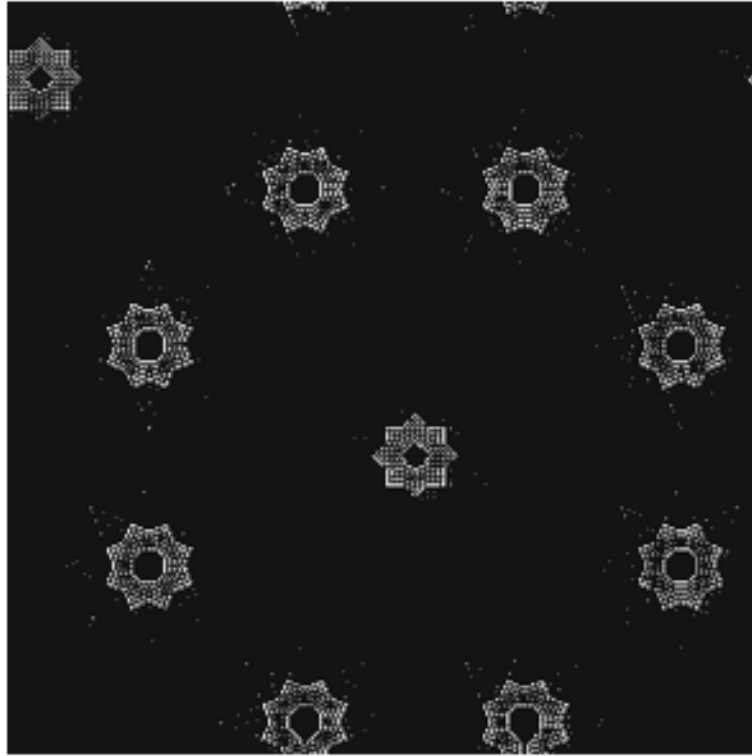
```
%multiplication in spatial domain is convolution in frequency domain
C = real(ifft2(fftshift(conv2(fftshift(fft2(out1)),(fftshift(fft2(out2)))))));

%scale the intensity values to lie between 0 and 255
C = (C-min(C(:)))*255/(max(C(:)) - min(C(:)));

%display all the yellow shade stars
figure;
imshow(imresize(C,[size(im,1) size(im,2)]),[]);

%display only pure yellow stars
C(C < 0.64*max(C(:))) = 0;
figure;
imshow(imresize(C,[size(im,1) size(im,2)]),[]);
```





*Published with MATLAB® 8.0*