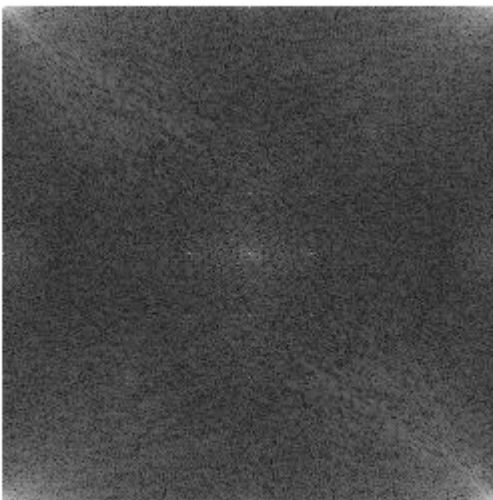


```
clear; close all; clc
```

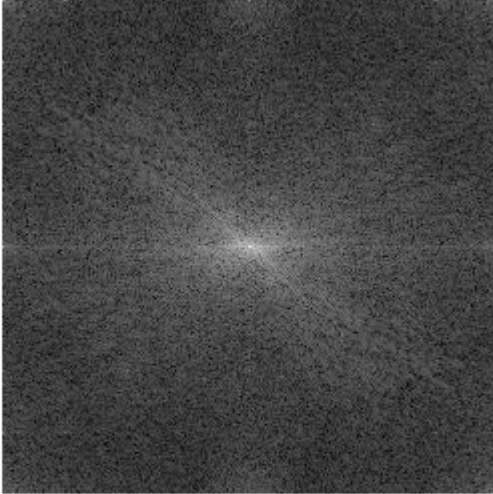
```
I = double(imread('lena.png')) / 255.0;  
I = I(:,:,1);  
imshow(I)
```



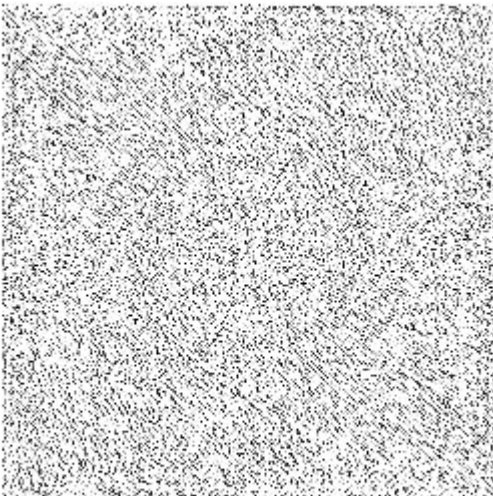
```
F = fft2(I);  
FF = log(3+abs(F));  
FF = FF / max(max(FF));  
imshow(FF);
```



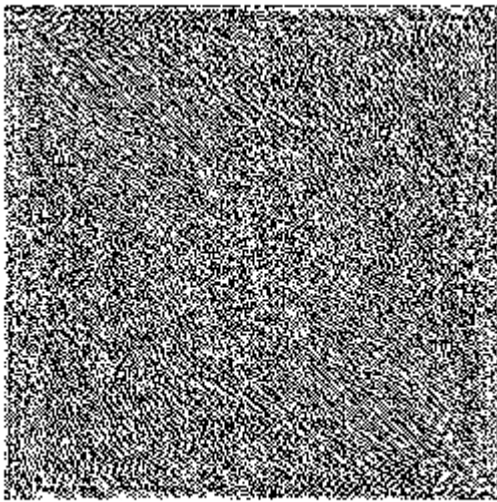
```
S = fftshift(F);  
SS = log(1+abs(S));  
SS = SS / max(max(SS));  
imshow(SS);
```



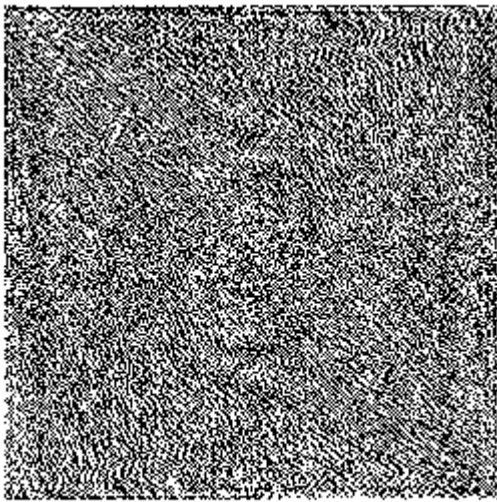
```
phase = angle(F);  
imshow(abs(phase));
```



```
imshow(real(F));
```



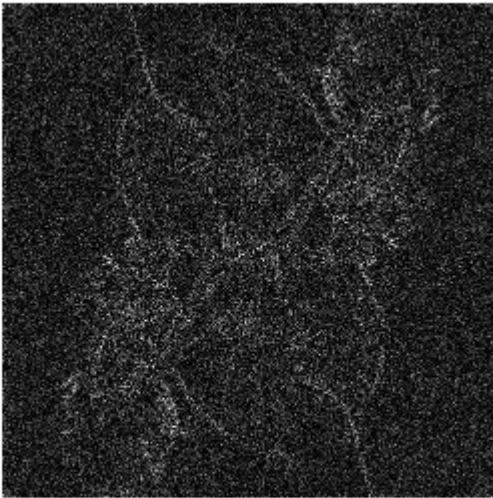
```
imshow(imag(F));
```



```
f = ifft2(F);  
imshow(abs(f))
```



```
f = abs(iff2(angle(F)));  
f = f / max(max(f));  
imshow(f);
```



```
% f = abs(iff2(log(1+angle(F)))+1);  
% m = max(max(f));  
% f = f / m;  
% for x = 1:size(f, 1)  
%     for y = 1:size(f,2)  
%         if f(x,y) < 0.626
```

```
%         f(x,y) = 0.0;
%     else
%         f(x,y) = 1.0;
%     end
% end
% imshow(f)
```