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# Sesión 17: Angel Prat, Haopeng Lin

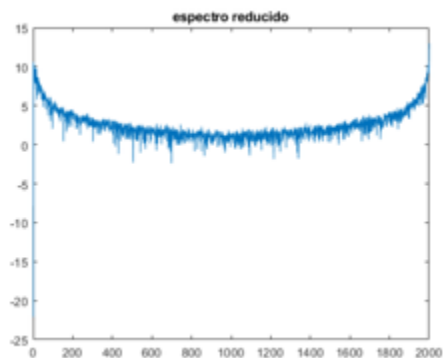
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```
% load 'df_fulle.mat'  
% 48 = 3(tipo de hoha)*16 (img) * 2000(coordenadas de furier)
```

## Cargar el imagen

```
N = 2000;  
tmp = df_norm(1,:);  
tmp(N+1:end-N) = 0;  
figure,plot(log(abs(tmp))),title('espectro reducido')  
mida = 1000;  
aux2=zeros(mida);  
ss2 = ifft(tmp);  
% parte real  
files = round(real(ss2)+mida/2);  
% parte imaginaria  
cols = round(imag(ss2)+mida/2);  
aux2(sub2ind(size(aux2),files,cols))=1;  
figure,imshow(aux2),title('2000 descriptores')
```

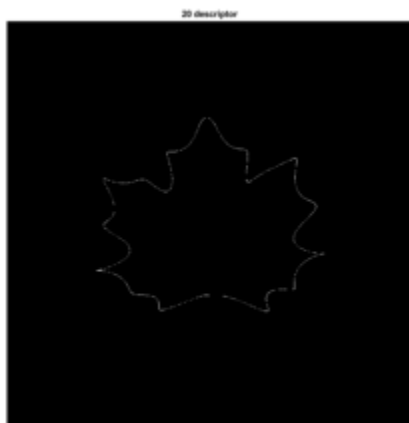
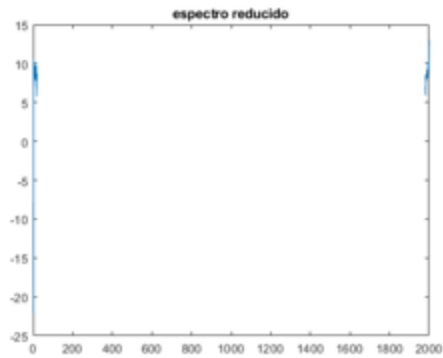




## Menos descriptor

```
N = 20;
tmp = df_norm(1,:);
tmp(N+1:end-N) = 0;
figure,plot(log(abs(tmp))),title('espectro reducido')
mida = 1000;
aux2=zeros(mida);
ss2 = ifft(tmp);
% parte real
files = round(real(ss2)+mida/2);
% parte imaginaria
cols = round(imag(ss2)+mida/2);
aux2(sub2ind(size(aux2),files,cols))=1;
figure,imshow(aux2),title('20 descriptor')
```





## Conseguir descriptores

```
% obtener el modulo
desc = abs(df_norm);

% patron + etiqueta => 2000/2 + 1
patrons = zeros(48,1001);

patrons(:,1:1000) = desc(:,1:1000);
patrons(:,end) = label_tree(:);
```

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