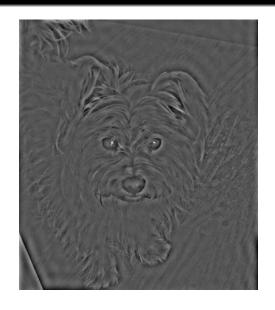
Lab 04 Hybrid Images

Laboratorio Vision por Computador



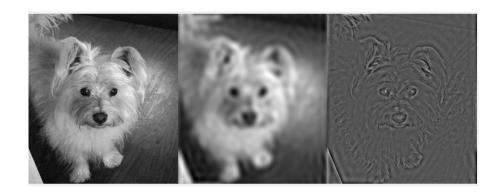
We talk about frecuencies, but visually what do they mean?



High frequencies refers to pixel values that are rapidly changing in space



Low frequencies refers to pixel values that are slowly changing in space



If we add the low and high frequencies (in the frequency domain) we get the complete image

Fun Fact



The farther away we are from the high frequency image the less we are able to see (details ar too small), and vice versa. (works ok on space domain)

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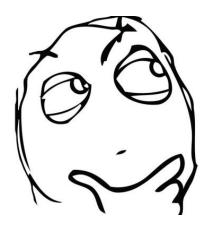
Fun Fact



The farther away we are from the high frequency image the less we are able to see (details ar too small), and vice versa

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Lets have some fun



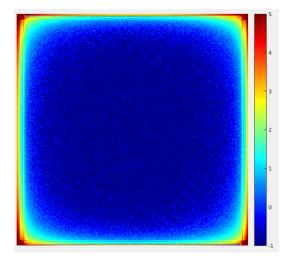
What if we mix the high frequency information from two DIFFERENT images?

Lets have some fun

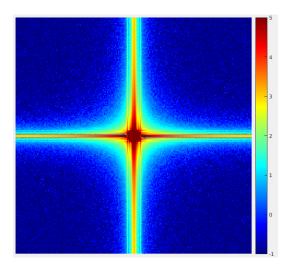


You are right, the closer we are the more we see the shepherd, the farther away we are the more we see the terrier.

A final advice



This is what a low frequency images looks after using MATLAB's fft2, notice anything funny?



fft2 output is shifted!, you might use 'fftshift', to center them.