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Computer Vision

Dr. Cheng

Homework 2: Hybrid Images

```
addpath('C:\Users\Dave\Desktop\Computer Vision\');
%%image0 = input(prompt1);
image1 = imread('cat.jpg');
%%image02 = input(prompt2);
image2 = imread('dog.jpg');
%cutoff_frequency = 0; %% 0.2hz$$$$$$$$$$$$$$
h_size = size('cat.jpg');
large 1d blur filter = fspecial('Gaussian', [3 3], 0.5);
% Remove the high frequencies from image1 by blurring it.
low frequencies = imfilter(image1,
large 1d blur filter, 'replicate', 'same');
low frequencies = imfilter(low frequencies,
large 1d blur filter, 'replicate', 'same');
figure(1)
imshow(low frequencies);
% Remove the low frequencies from image2.
low frequencies2 = imfilter(image2, large 1d blur filter);
low frequencies2 = imfilter(low frequencies2, large 1d blur filter);
figure(2)
imshow(low frequencies2);
high frequencies = imsubtract(image1, low frequencies2);
% Combine the high frequencies and low frequencies
hybrid image 2 = low frequencies2+high frequencies;
figure(3)
image(hybrid image 2);
```





