

```
12         col+floor(f_columns/2));  
13         image_chunk = image_chunk .* filter;  
14         image(row-floor(f_rows/2), col-floor(f_columns/2)  
15             ) = sum(image_chunk(:));  
16     end  
17 end  
18 output = image;
```

A Result

Outputs of `my_filter` function and MATLAB's built-in function are similar. And obtained hybrid image is similar to the one shown in HW description document. Padding with reflected image content gives better results as discussed previously. Concerning hybrid images, the resulting image indeed shows that in the close distance high frequencies image contents dominate perception, and on the big distance low frequency contents are perceived.

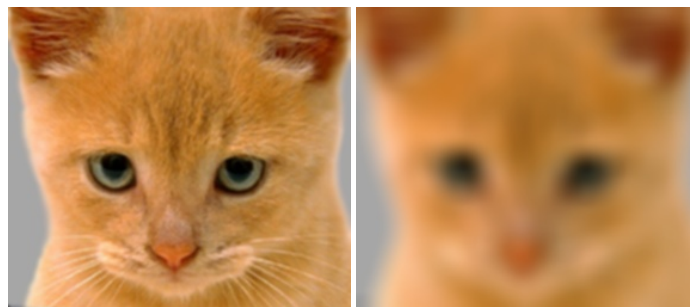


Figure 1: *Left*: blur image. *Right*: large blur image

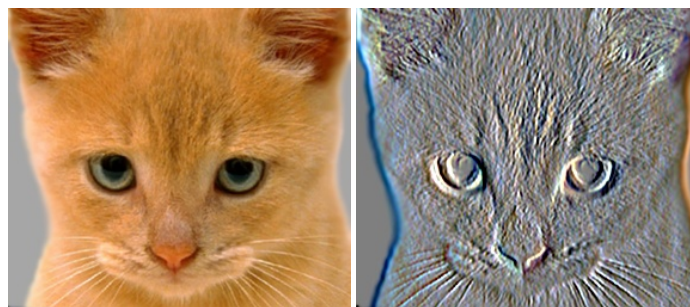


Figure 2: *Left*: identity image. *Right*: sobel image

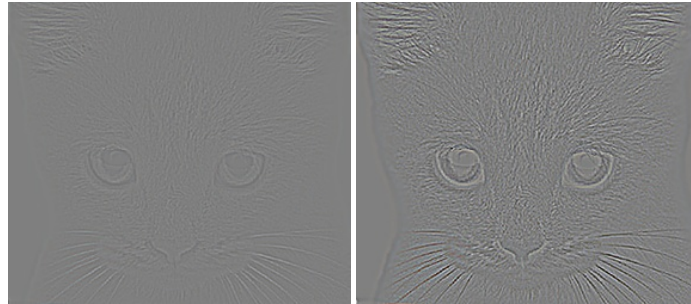


Figure 3: *Left*: high pass image. *Right*: laplacian image



Figure 4: *Left*: high frequencies. *Right*: low frequencies



Figure 5: *hybrid image*.



Figure 6: *hybrid image scales*