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```
% THUAT TOAN NOI SUY SONG TUYEN TINH
img = imread('kodak\kodim24.png');
[h, w, t] = size(img);
I = img;
I(2:2:h,:,1) = 0; I(:,2:2:w,1) = 0;
I(1:2:h,1:2:w,2) = 0; I(2:2:h,2:2:w,2) = 0;
I(1:2:h,:,3) = 0; I(:,1:2:w,3) = 0;
WRB = [1 2 1; 2 4 2; 1 2 1] / 4;
WG = [0 1 0; 1 4 1; 0 1 0] / 4;
I(:, :, 1) = imfilter(I(:, :, 1), WRB, 'replicate');
I(:, :, 2) = imfilter(I(:, :, 2), WG, 'replicate');
I(:, :, 3) = imfilter(I(:, :, 3), WRB, 'replicate');
%figure
%imshow(I,[])
```

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