

2D Haar Wavelet Transform



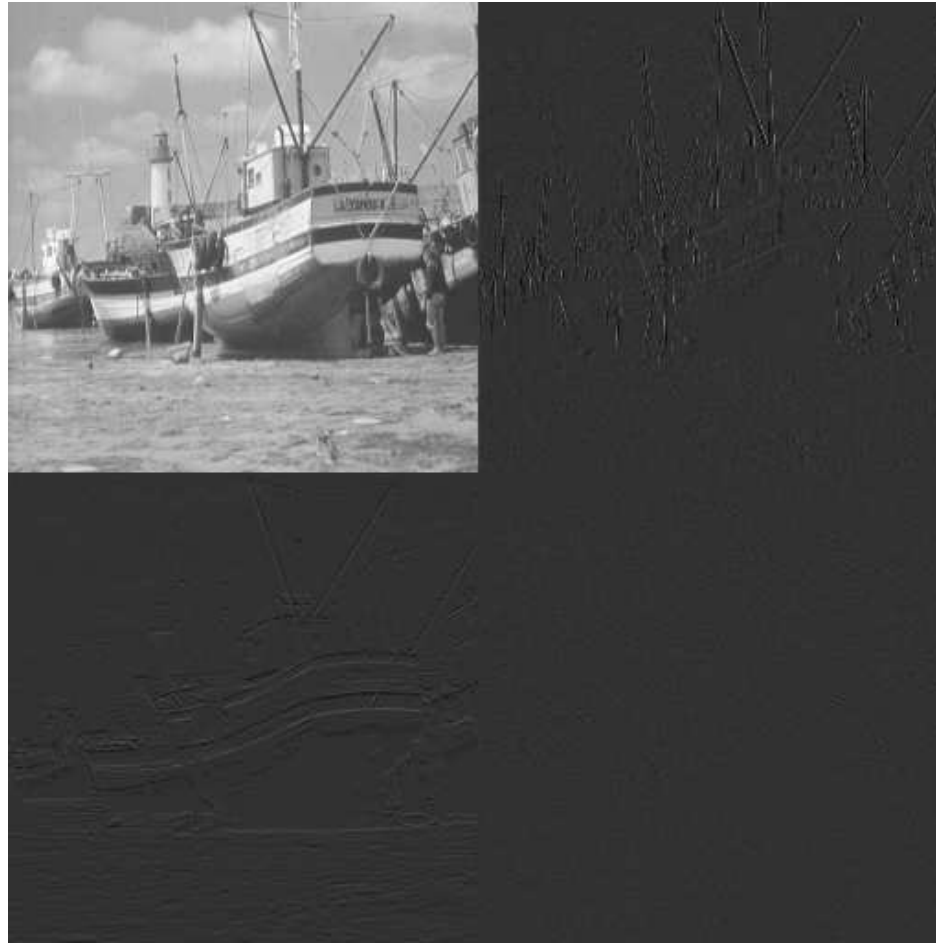
Input Image

2D Haar Wavelet Transform



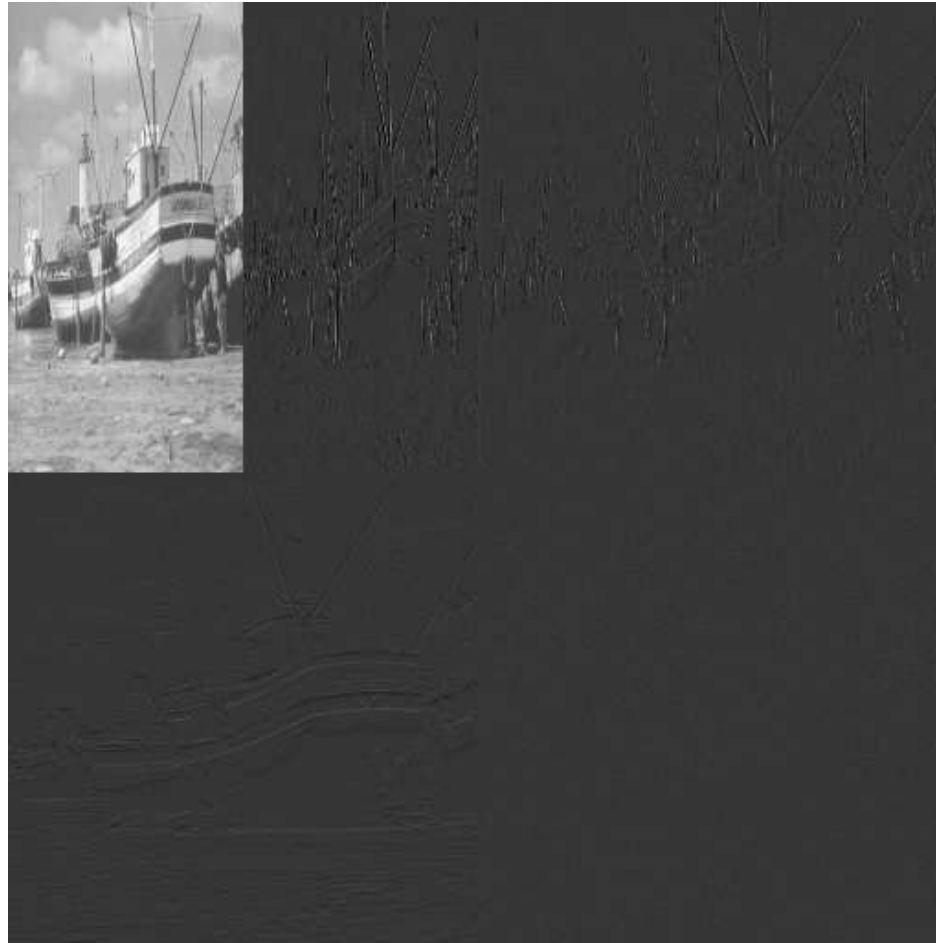
Apply 1D Haar Wavelet Transform along the rows

2D Haar Wavelet Transform



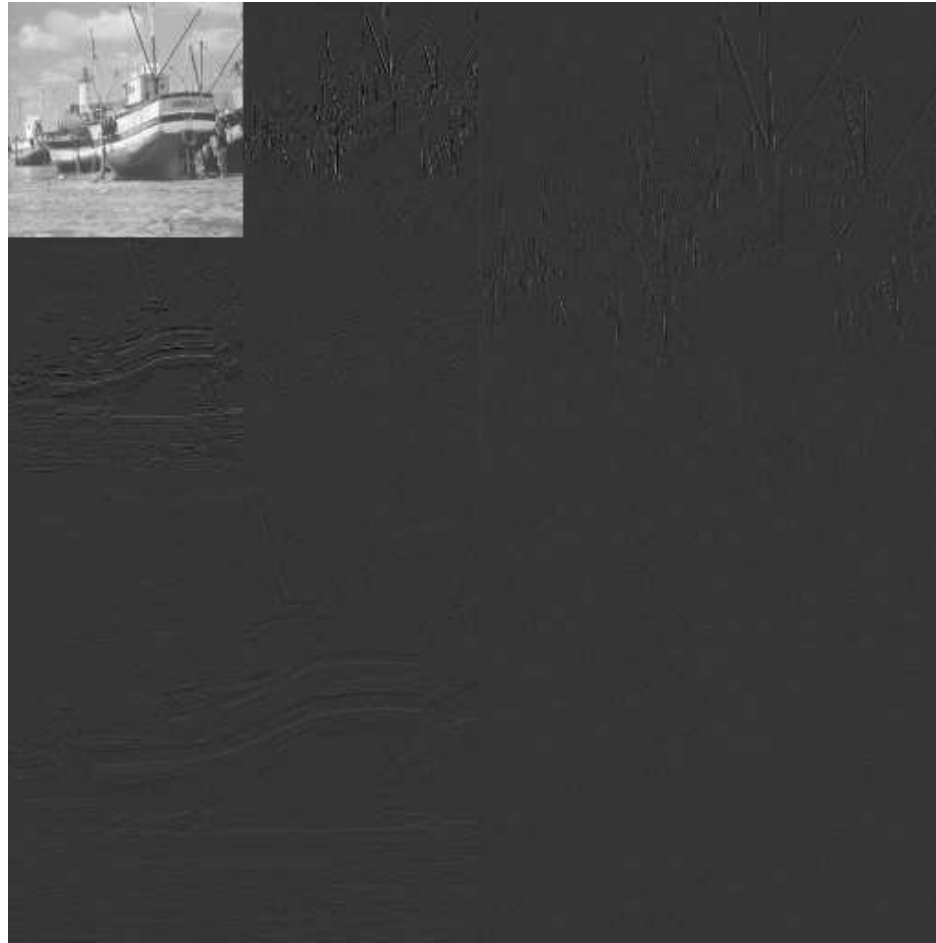
Then, apply 1D Haar Wavelet Transform along the columns

2D Haar Wavelet Transform



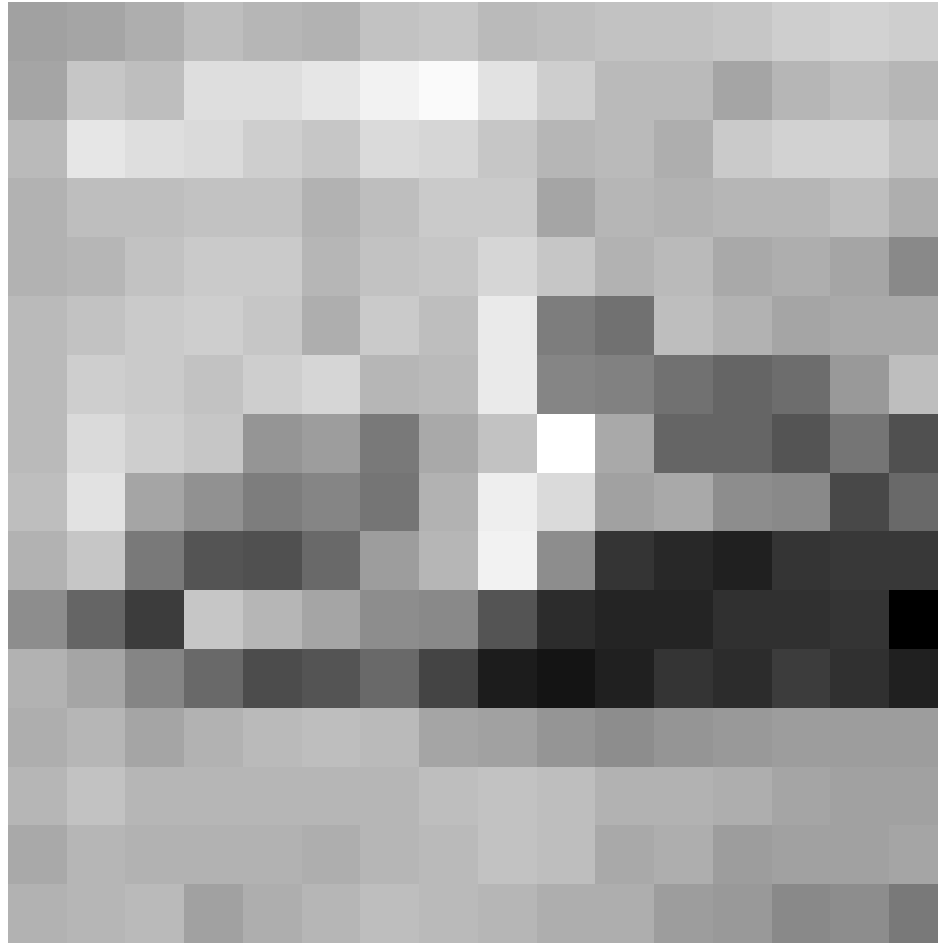
Iterate on the coarse image...

2D Haar Wavelet Transform



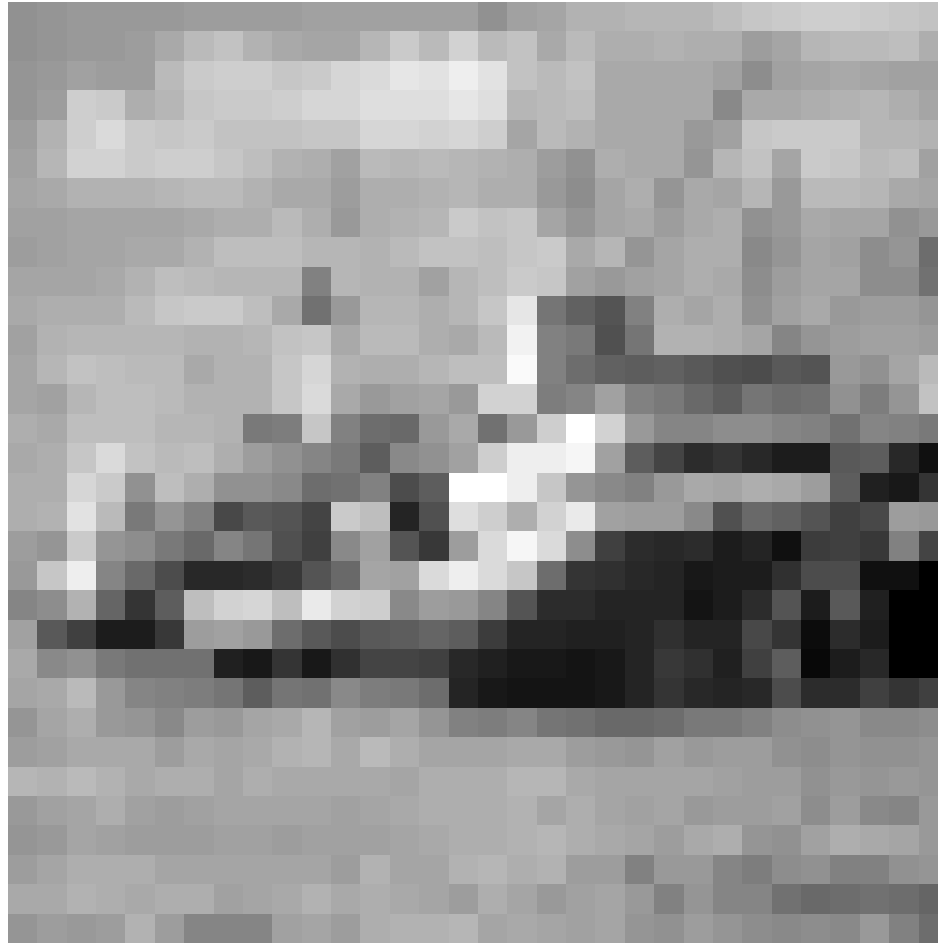
Iterate on the coarse image...

2D Haar Wavelet Transform



Approximation at Level-5 (Projection to V_0)

2D Haar Wavelet Transform



Approximation at Level-4 (Projection to V_1)

2D Haar Wavelet Transform



Approximation at Level-3 (Projection to V_2)

2D Haar Wavelet Transform



Approximation at Level-2 (Projection to V_3)

2D Haar Wavelet Transform



Approximation at Level-1 (Projection to V_4)

2D Haar Wavelet Transform



Original Image (which we assumed was in V_5)