

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| $a_{L+3}$   | $d_{L+3}^2$ | $d_{L+2}^2$ | $d_{L+1}^2$ |
| $d_{L+3}^1$ | $d_{L+3}^3$ | $d_{L+2}^3$ |             |
| $d_{L+2}^1$ | $d_{L+2}^3$ |             |             |
| $d_{L+1}^1$ |             | $d_{L+1}^3$ |             |

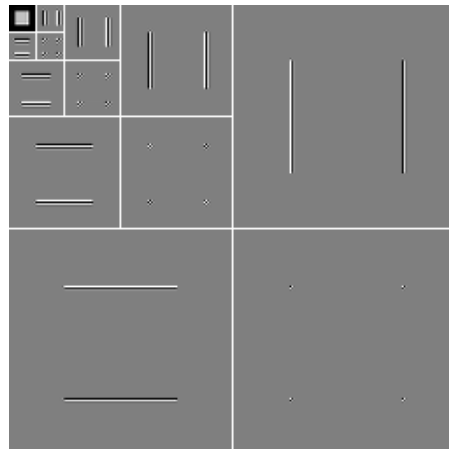
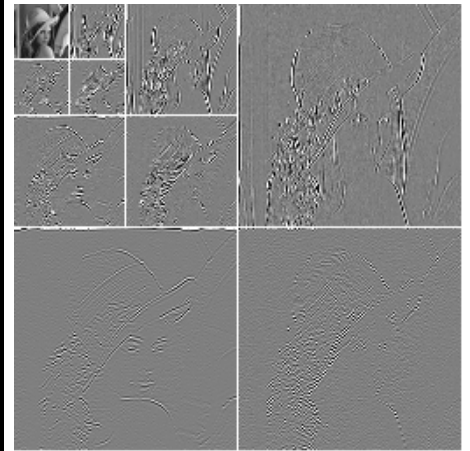
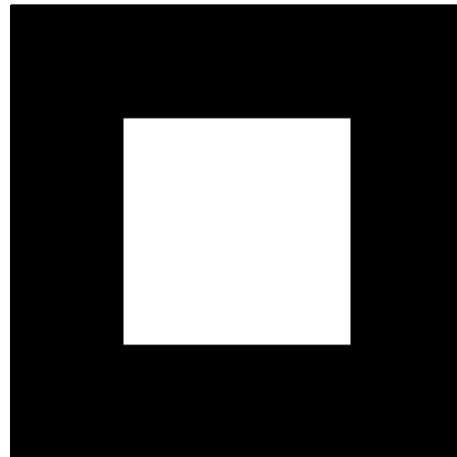


Fig. 7.24. A Wavelet Tour of Signal Processing, 3<sup>rd</sup> ed. Separable wavelet transforms of Lena and of a white square in a black background, decomposed respectively on 3 and 4 octaves. Black, grey and white pixels correspond respectively to positive, zero and negative wavelet coefficients. The disposition of wavelet image coefficients  $d_j^k[n, m] = \langle f, \psi_{j,n}^k \rangle$  is illustrated on the top left.