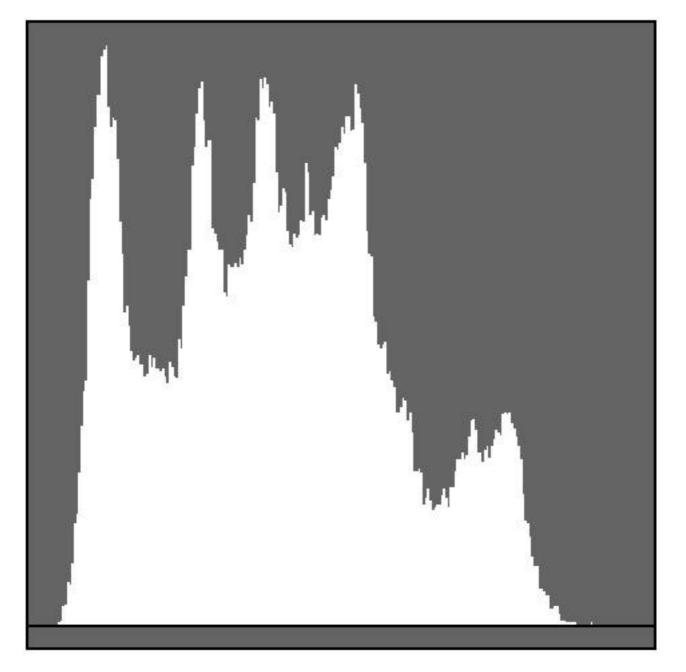
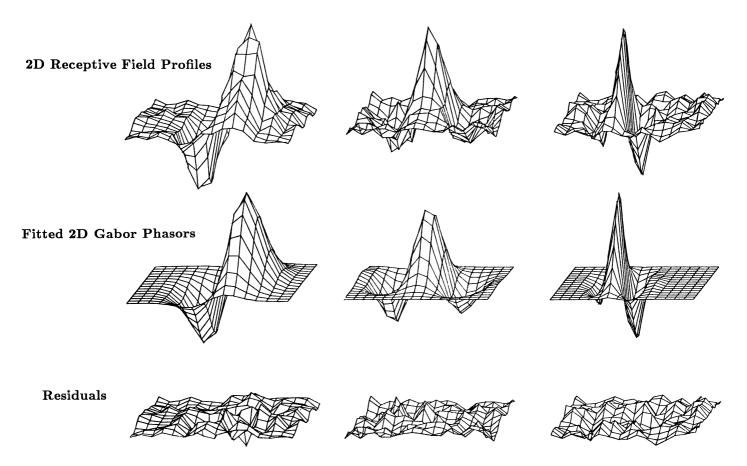


Reconstruction of Lena: 25, 100, 500, and 10,000 Two-Dimensional Gabor Wavelets



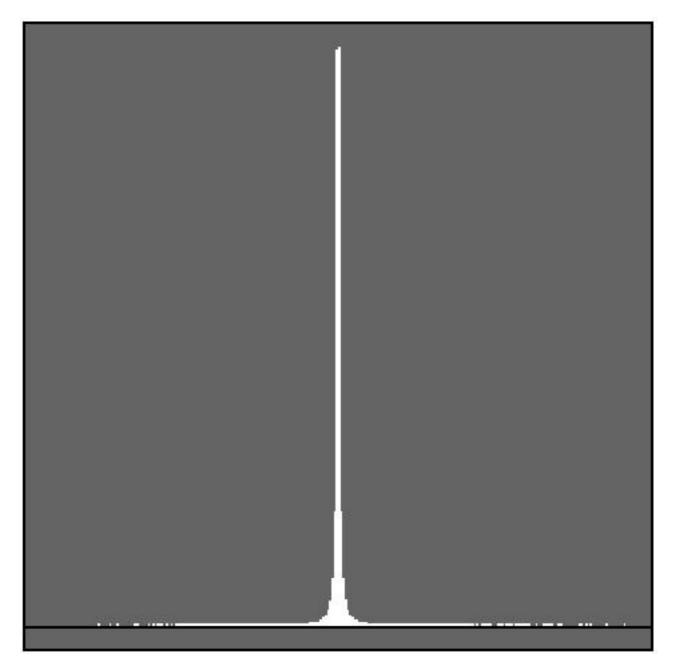
Pixel histogram of original Lena image: entropy = 7.57 bits/pixel



Empirical 2D receptive field profiles of neurones in the brain's visual cortex (top row), resembling 2D Gabor wavelets (middle row)

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Complete 2D Gabor Transform of the original Lena image (Gabor coefficients represented as grey value)



Histogram of coefficients in the complete 2D Gabor Transform of Lena: entropy = 2.55 bits/pixel



Reconstruction of Lena from her complete 2D Gabor Transform