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Computer processed block pictures reveal existence of two-dimensional spatial frequency analysis in vision. Block-averaged portrait at top is perceived more readily if middle and high frequencies are removed by blurring. Selective removal of high frequencies alone, as at lower left, leads to little improvement. But selective removal of only frequencies immediately above original portrait's spectrum, as at lower right, is more effective. See page 1194. [L. D. Harmon and B. Julesz, Bell Laboratories, Murray Hill, New Jersey]