In a Bayesian model of human motion perception, a prior expectancy for slow speeds is combined with sensory information. Low contrast stimuli provide a weaker sensory signal, so the prior contributes more to perception. Fixating on the central point of this cover image elicits a stronger illusion of motion in the surrounding circles with higher contrast. In this issue, Stocker and Simoncelli show that the prior in human speed perception can be derived from psychophysical measurements. (pp 469 and 578)
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