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# Listening to Mozart enhances spatial-temporal reasoning: towards a neurophysiological basis

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### Abstract

Motivated by predictions of a structured neuronal model of the cortex, we performed a behavioral experiment which showed that listening to a Mozart piano sonata produced significant short-term enhancement of spatial-temporal reasoning in college students. Here we present results from an experiment which replicates these findings, and shows that (i) "repetitive" music does not enhance reasoning; (ii) a taped short story does not enhance reasoning; and (iii) short-term memory is not enhanced. We propose experiments designed to explore the neurophysiological bases of this causal enhancement of spatial-temporal reasoning by music, and begin to search for quantitative measures of further higher cognitive effects of music.





## Keywords

EEG; Spatial-temporal neuronal pattern development; Trion model of cortex; Analytic reasoning; Creative reasoning; Music

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