Yale Perception & Cognition Laboratory

VSS 2015

The Perception of History:

Seeing causal history in static shapes is powerful enough to induce illusory motion perception

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Motivation

We can see causal history.

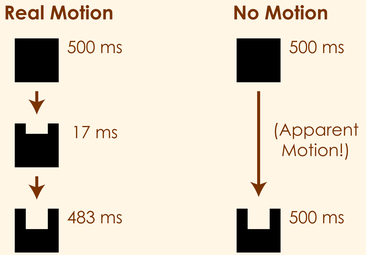
(Leyton, 1992)

Our Question

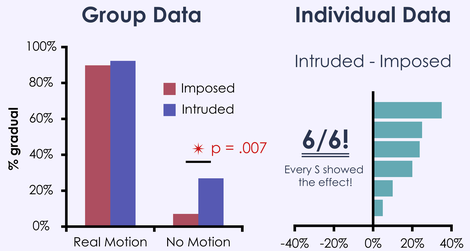
Does perceived causal history influence other aspects of perception?

Method

Task: Gradual or sudden change?

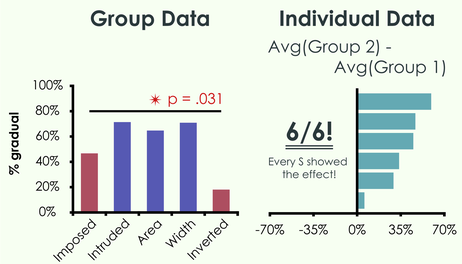


Expt 1: Imposed vs. Intruded



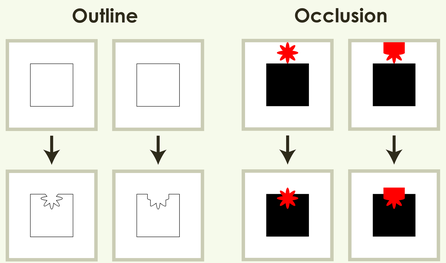
Perceived history induced illusory motion perception!

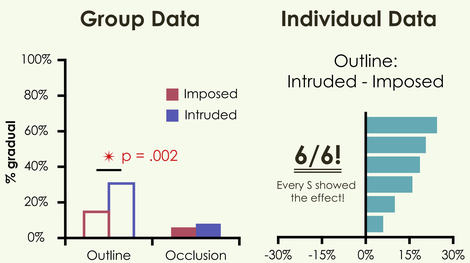
Expt 2: Low-level Factors?



...even controlling for low-level features!

Expt 3: History Per Se?





The effect is specific to causal history!

Conclusions

Visual processing involves reconstructing **causal history**!

Experimental Evidence to complement previous theoretical arguments!

Powerful enough to influence other visual features!

Preprint?