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Title

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Permalink

https://escholarship.org/uc/item/5qn1z5fk

Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 32(32)

ISSN

1069-7977

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Publication Date

2010

Peer reviewed

Inferring Object Structure from Human Action at 9 Months

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Abstract: This study investigates whether 9-month-olds use action information to make predictions about the hidden structure of an object. Two groups saw an actor repeatedly raise and lower a box. In one group, the box was moved with a hidden handle. In the other group, a box with no handle was grasped along the hidden back face and repeatedly raised and lowered. Following this familiarization, the box was rotated 90 degrees either to reveal a structure consistent or to reveal a structure inconsistent with that suggested by the initial action. Patterns of looking between familiarization and test trials differed for the two familiarization groups, suggesting that 9-month-old infants can infer certain details of an object's structure from human action.