UC Merced

Proceedings of the Annual Meeting of the Cognitive Science Society

Title

Is word learning of spatial metaphors grounded in perceptual modality?

Permalink

https://escholarship.org/uc/item/7n59h47h

Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 45(45)

Authors

Tarakçı, Bahar Ünal, Ercenur

Publication Date

2023

Copyright Information

This work is made available under the terms of a Creative Commons Attribution License, available at <u>https://creativecommons.org/licenses/by/4.0/</u>

Peer reviewed

Is word learning of spatial metaphors grounded in perceptual modality?

Bahar Tarakçı

Özyeğin University, Istanbul, Turkey

Ercenur Ünal

Özyeğin University, Istanbul, Turkey

Abstract

Space and time are highly interconnected domains in language and cognition. Here, we ask to what extent the conceptual and perceptual processes of space and time influence how word meanings are learned and extended. To answer this question, we taught 4-5-year-olds and adults a novel word with spatial (i.e., length) or temporal meaning (i.e., duration) and investigated how they learn and extend the word meaning to the other domain. We manipulated two aspects of learning spatial metaphors: (i) direction of extension and (ii) time modality. Children learned the spatial meaning better than the temporal one. Learning the spatial meaning did not overcome the difficulty of learning the temporal meaning. Adults learned both meanings equally successfully. However, they learned the temporal meaning better when they perceived time through visual modality. Once they learned the temporal meaning, they could extend it to the space domain as easily, regardless of time modality.

In M. Goldwater, F. K. Anggoro, B. K. Hayes, & D. C. Ong (Eds.), *Proceedings of the 45th Annual Conference of the Cognitive Science Society.* ©2023 The Author(s). This work is licensed under a Creative Commons Attribution 4.0 International License (CC BY).