Einladung

zu einem Vortrag

über

Age, language, and context as determinants of spatial orientation

von

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Stephen Levinson distinguishes between three different frameworks of spatial orientation on the horizontal plane: Absolute, Intrinsic, and Relative. In Absolute coordinate systems, the Figure and the Ground are related based on coordinates of fixed bearings or cardinal directions (e.g. Norway is to the North of Germany). Intrinsic frames of reference make use of an inherent "facet" of the Ground (e.g. The cat is in front of the TV), while in Relative frames of reference the relation is established using speaker-centered coordinates based on body axes projected onto relationship between the Figure and the Ground (e.g. *The cat is to* the left of the TV). These frames are used variably in different languages, and Levinson proposes a causal relationship between linguistic coding and conceptual representations. This is tested in different rotation tasks. In the case of Hungarian, a primarily Relative/Intrinsic language, this would predict that language development results in an increasing number of egocentric answers in rotation tasks. We examined developmental changes in five age groups (4-10 years) of typically developing native Hungarian children and a sixth adult group (18-30 years). The results do not support the expected relationship. The developmental trend was exactly the opposite of the hypothesis posed by Levinson: speakers of an inherently intrinsic/relative language seemed to prefer absolute choices ever increasingly with age. At the same time, hand preference and special ecaion (language versus sportd) had an effect. There is a threefold causality in the choice of reference frame in children: 1. Biological effects (such as sex and handedness) and 2. individual differences (such as intelligence and spatial memory) have a large impact on spatial reference choices 3. Both immediate (visible allocentric and egocentric cues) and general environment (education, culture) are important, yet language alone does seem to play a role.

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