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Comparison of multilingual measures within and across diverse contexts: CLiP-Q, SECSE, and language entropy

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Abstract

Language context is a factor thought to shape linguistic and cognitive control systems. The Adaptive Control Hypothesis predicts that cognitive control differs across language contexts and long-term differences in cognitive control may be observed based on language experience. However, there is a need for consensus regarding the methods used to capture language experience. We compare three methods originally characterized in different populations to measure different aspects of language experience. The Contextual Linguistic Profile Questionnaire (CLiP-Q) measures linguistic diversity at the individual and contextual level; the Survey of Code-Switching Experience (SECSE) measures contextual exposure and mixing practices; and language entropy measures the social diversity of language use. In addition to quantitative and qualitative comparison of these methods in the same population ($N = 296$), we aim to extend the ecological validity of each methodology by comparing linguistic diversity, habits, and cognitive performance across linguistically diverse environments: unilingual, bilingual, and multilingual communities.