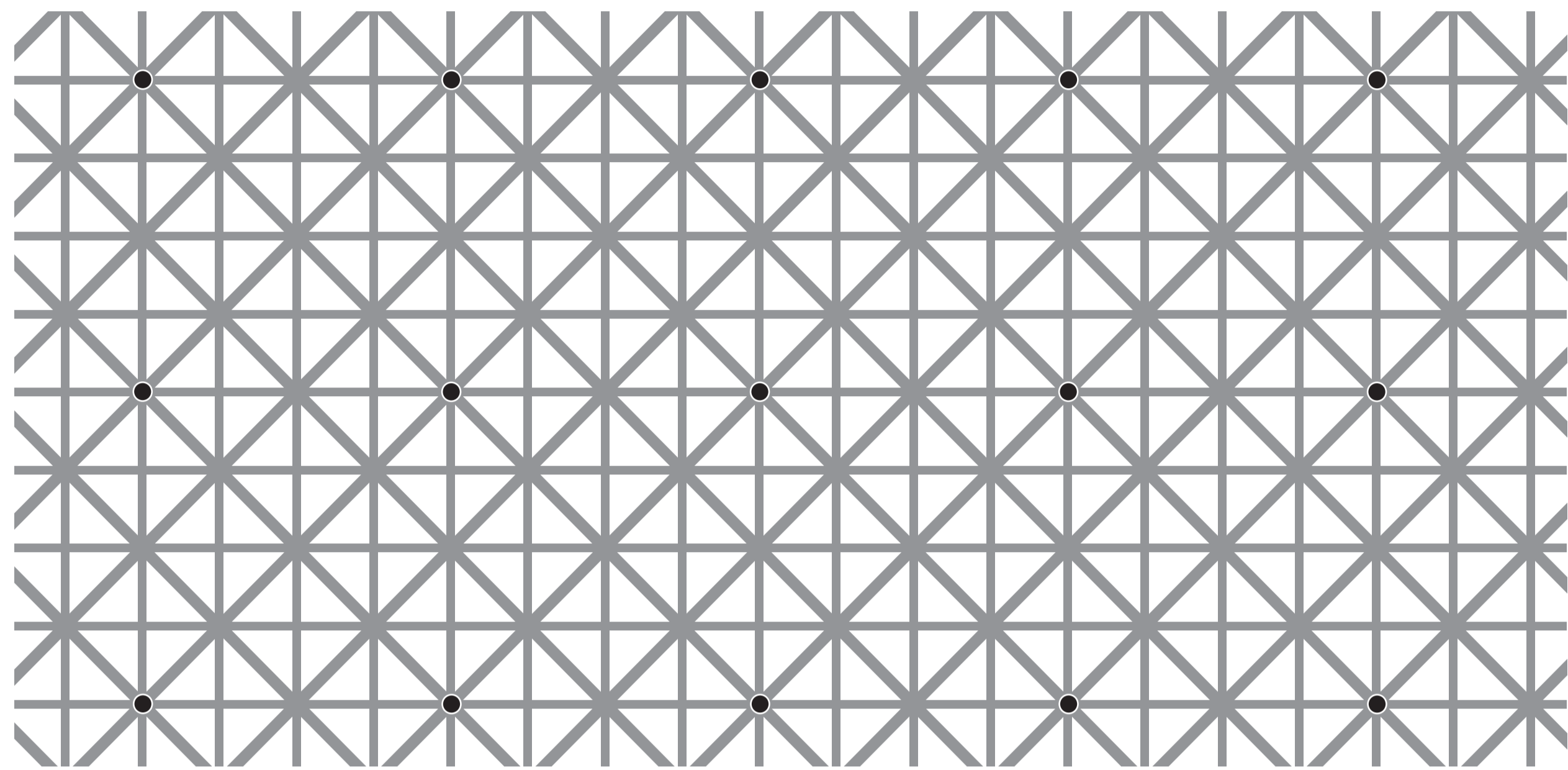


How spatial attention influences iconic memory

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Selectivity of Conscious Perception



How many black dots are there? (Ninio & Stevens, 2000)

Perspectives on the Relationship Between Attention and Consciousness



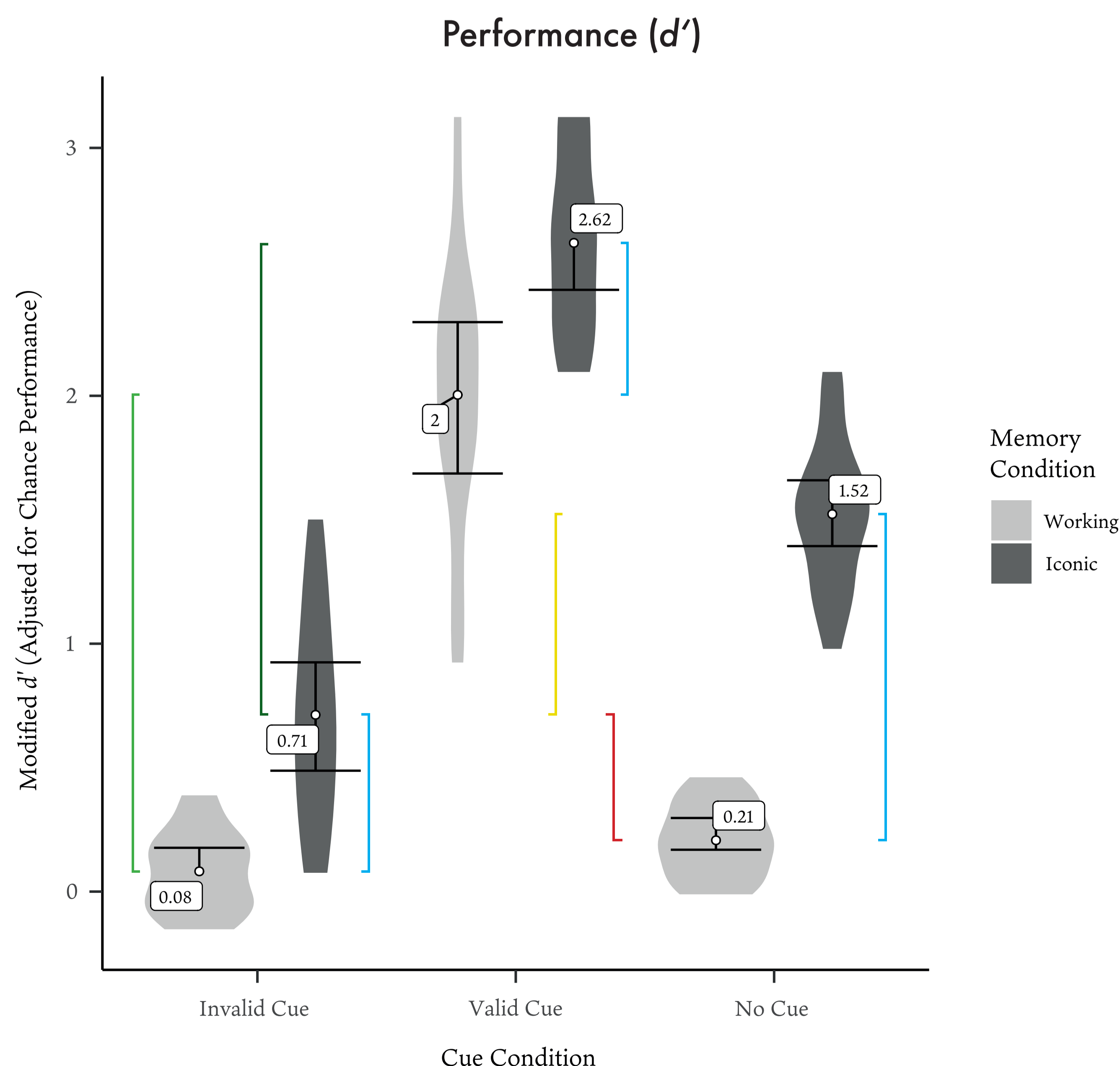
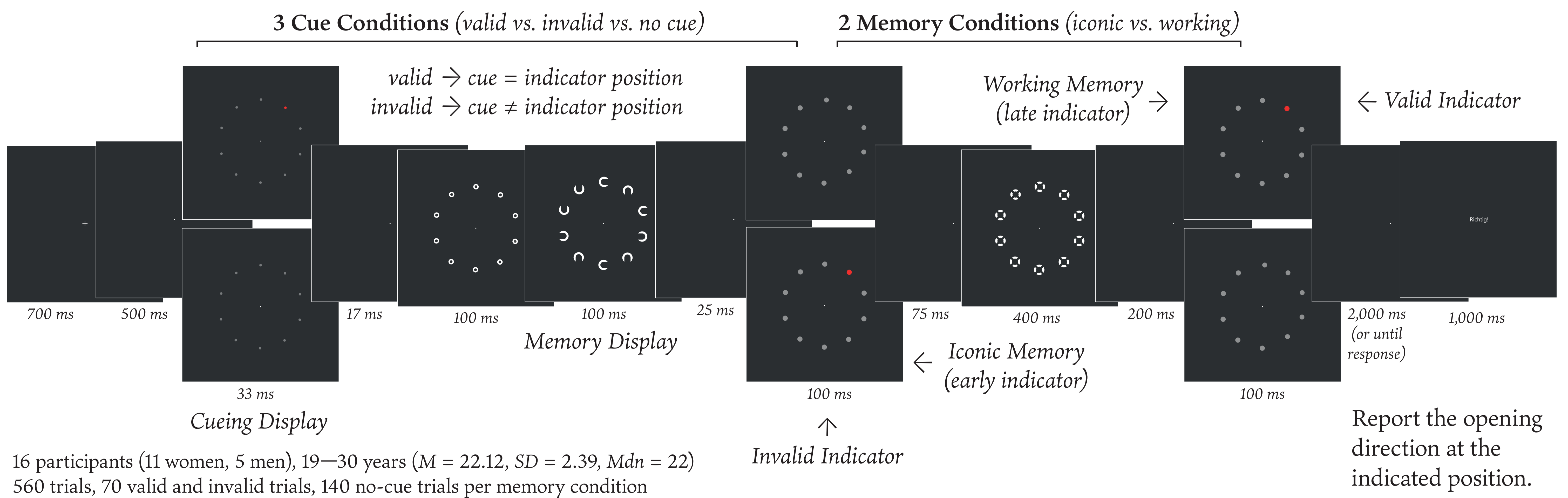
Visual Consciousness · Measured with Iconic memory performance

Visual Attention · Selective visual perception, measured with validity effect

Validity Effect · Performance advantage in valid vs. invalid trials

Working Memory · Highly influenced by (visual) attention (control condition)

Is iconic memory influenced by visual attention?



Nonoverlapping error bars indicate a significant difference, adjusted for multiple comparisons.

Did we measure visual consciousness?

▶ Overall higher performance in iconic memory condition

Did we manipulate visual attention?

▶ Strong validity effect in working memory condition

Did visual attention influence iconic memory?

▶ Similar validity effect as in working memory condition

▶ Substantial distraction by invalid cue

▶ But still significantly better performance than baseline

*Visual attention modulates visual consciousness
but is not necessary for consciousness.*

