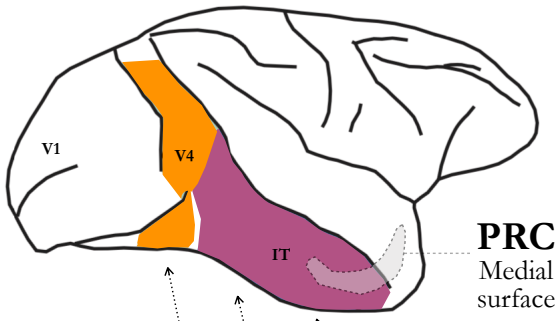
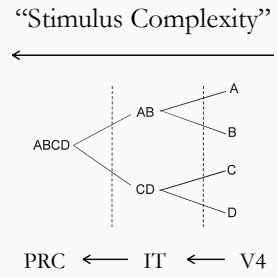
**a** **Neuroanatomical relationship between the ventral visual stream (VVS) and perirhinal cortex (PRC)**




**b**

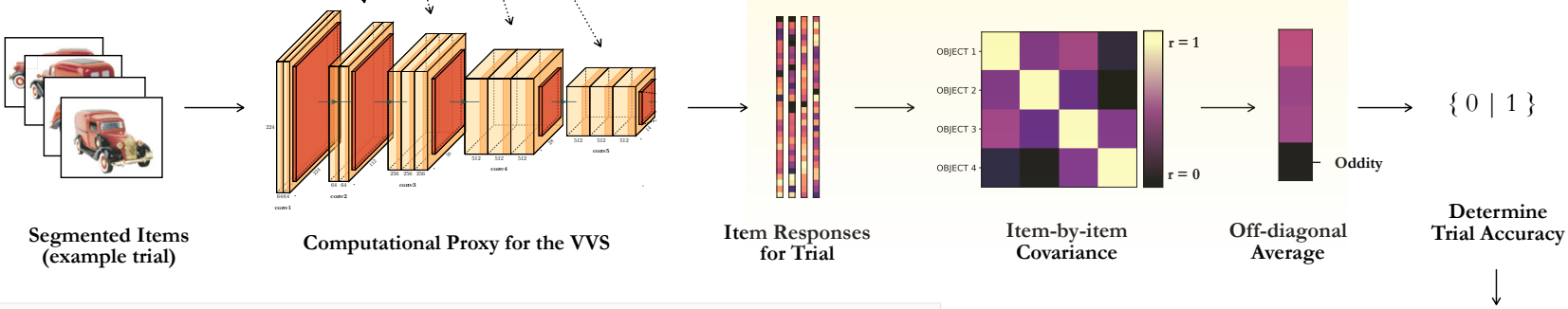
Original formulation of PRC involvement in perception:

PRC-lesioned impairments in perceptual behavior only evident on sufficiently "complex" stimuli




Murray et al. 1999

**c**




"Model Performance" as a proxy for accuracy expected from a linear readout of the VVS

**d** **Example stimuli used to evaluate role of PRC in visual object perception via concurrent visual discrimination (i.e. 'oddity') tasks**


Barense et al. 2007

**"High Complexity"** i.e. **ABCD** vs. **ABCD'**

**"Medium Complexity"** **i.e. AB vs. CD**

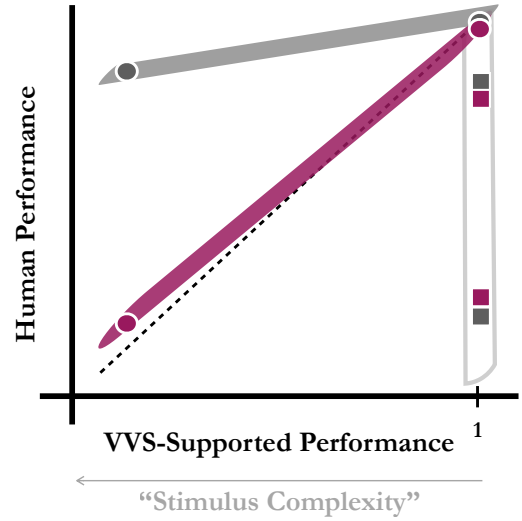
**"Low Complexity"** **i.e. A vs. B**

**f** Seemingly inconsistent experimental outcomes (e) may be organized within three distinct distributions

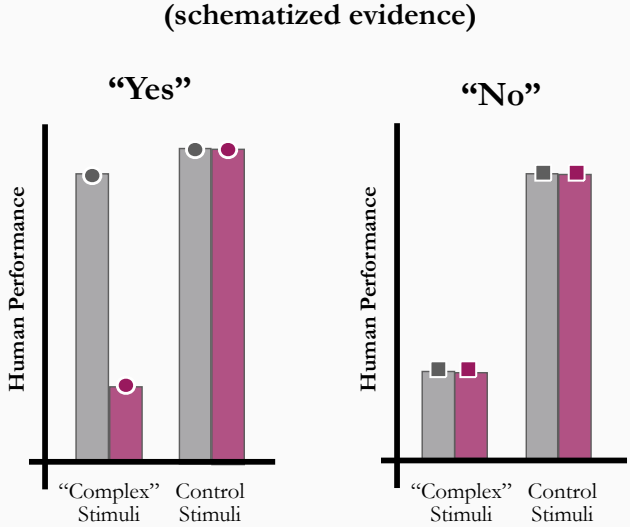
PRC-lesioned behavior predicted by a linear readout of the VVS

PRC-intact behavior outperforms a linear readout of the VVS

Non-perceptual task demands result in sub-optimal performance




**e** **Is PRC involved in perception? (schematized evidence)**




All data from "Yes" and "No" plots are situated in relation to VVS-supported performance in (f)