Discrete Change:

- Gradual change of a stimulus along a circular stimulus space

Non-gradual change of a stimulus along a circular stimulus space

Correspondence maintained

- But previous demonstrations (polygon separation) of loss of stimulus-to-representation correspondence using 2 types of change represent a limited amount of visual information in an active state for a current task.

Coordinate maintained

- Updating CDA's sensitivity to task-irrelevant change in a stimulus suggests that the CDA codes for its task-relevance.

Discerning a loss of stimulus-to-representation correspondence using 2 types of change

- Does VWM recovery after a reset?

Exp 1 - Is a loss of stimulus-to-representation correspondence sufficient for VWM representations to reset?

- If VWM representations reset to a loss in stimulus-to-representation correspondence, then we should observe a drop in CDA amplitude (green) to a discrete change of a stimulus.

Exp 2 - Is resetting caused by a lost correspondence in object-based representations?

- If VWM resetting reflects a loss correspondence in object-based representations, then we should observe a drop in CDA amplitude (red) to a discrete change in a feature of a stimulus, regardless of its task-relevance.

References

- Rosa T orres, April Pereira, Amanda Leonetti, Sabah Rasheed, Ismael Kanca Kaan.