

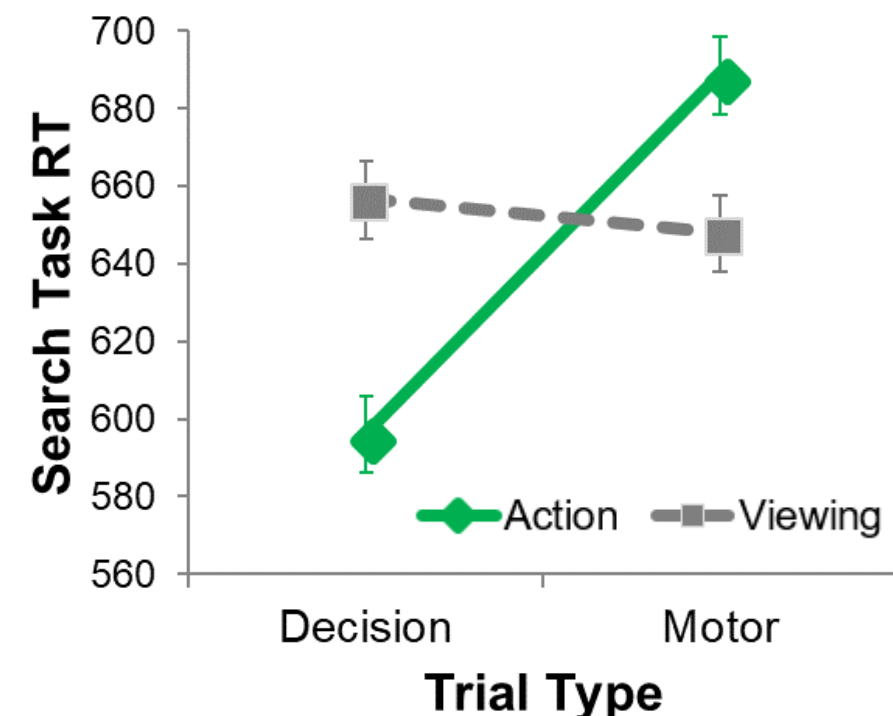
Blaire J. Weidler, Richard A. Abrams, & Jay Pratt

Background:

- Prior action biases visual search
- Is this due to the stimulus present at the time of *decision* or at *motor execution*?

Experiment 1

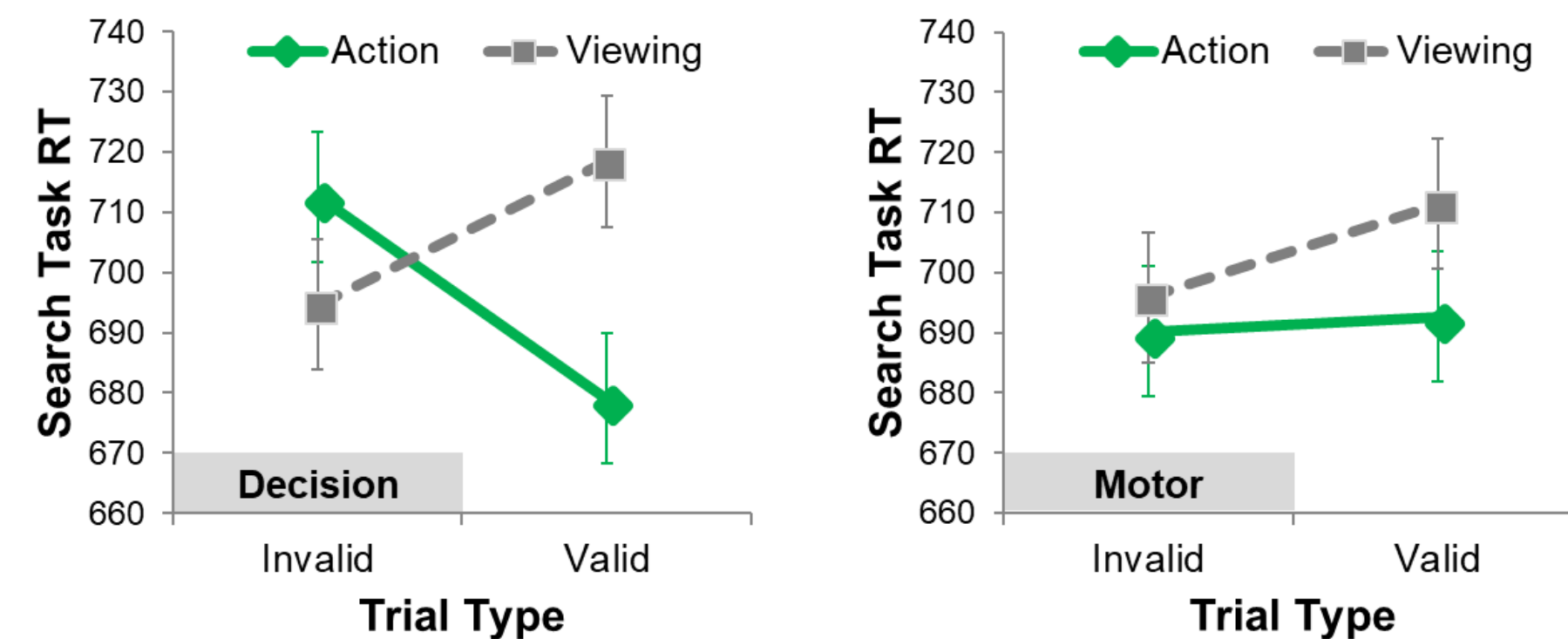
Does decision or motor color win competition for selection?



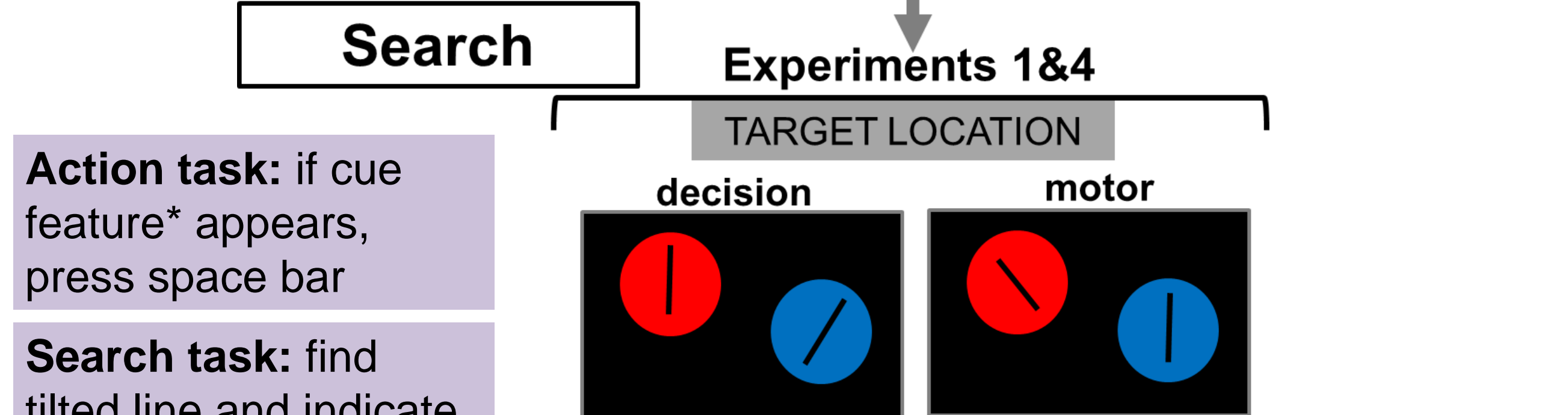
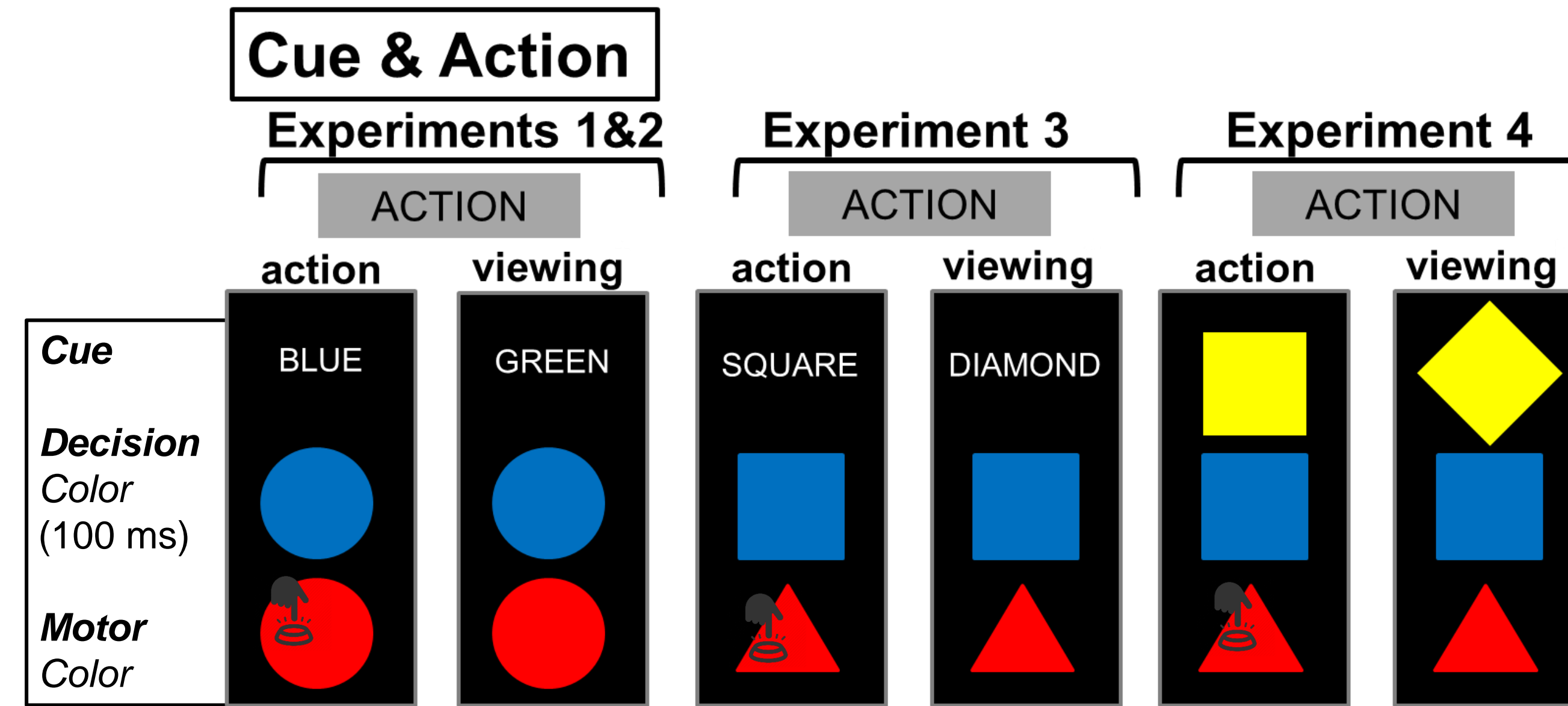
→ Decision color

Experiment 2

Can motor color compete against neutral color?

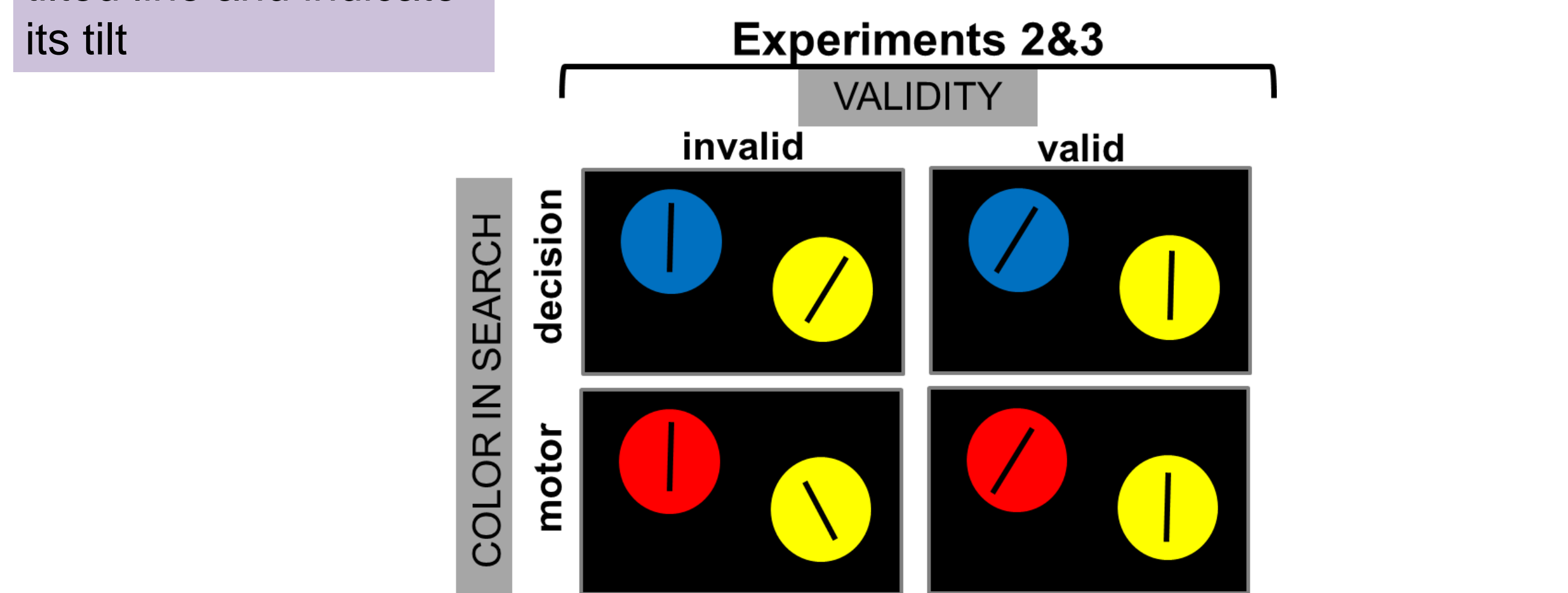


- Motor color does not have an effect
- Decision color again has an effect



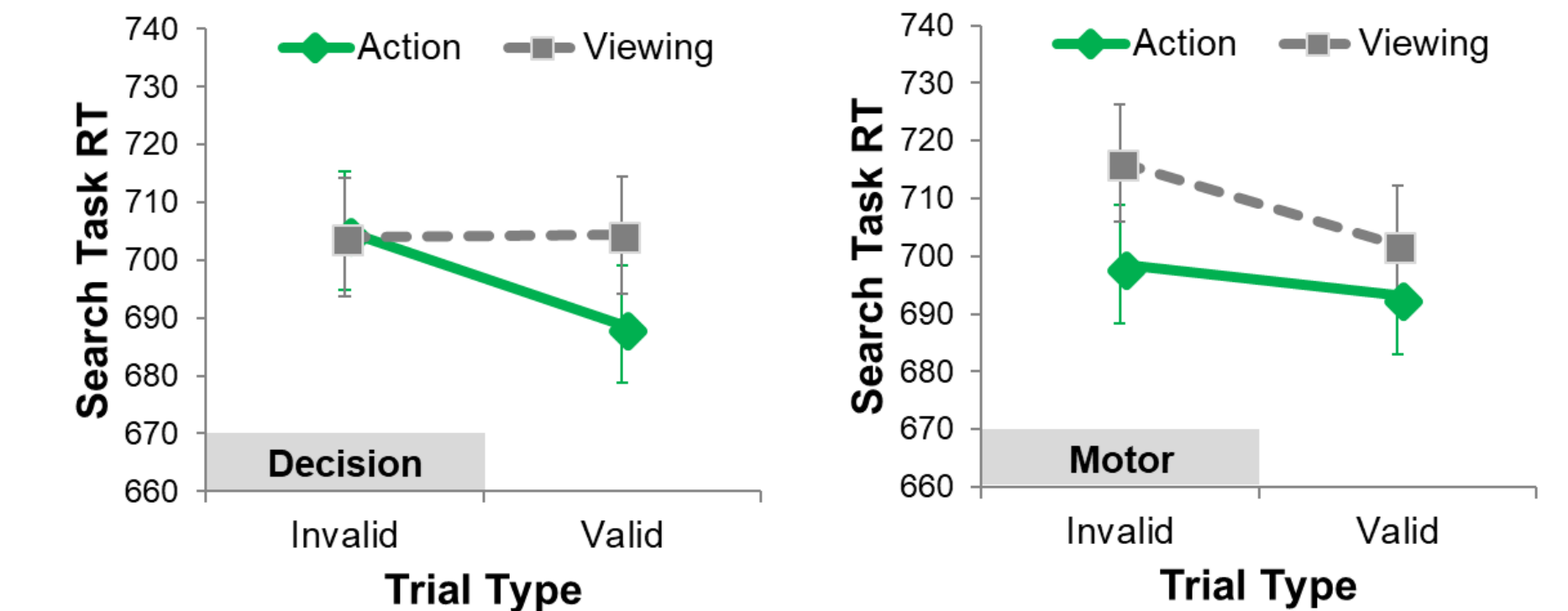
Action task: if cue feature* appears, press space bar

Search task: find tilted line and indicate its tilt



Experiment 3

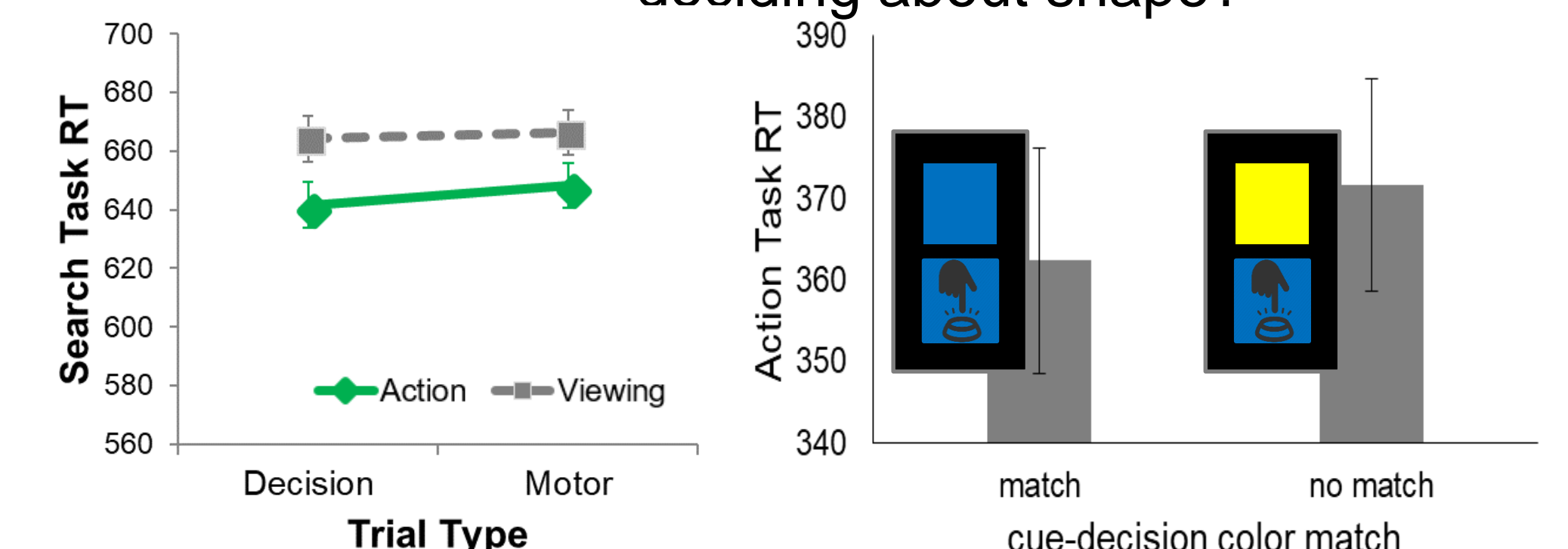
Is the effect dependent on color processing?



→ Perhaps, weak evidence for decision effect when decision made about shape

Experiment 4

Was color processed when deciding about shape?



- Yes, color was processed: evidence from space bar RTs
- But, no evidence for decision color winning competition

Summary:

- It's the decision to act that matters
- The extent to which the decision to act affects visual search depends on the task