

Mood Congruent Visual Perception

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INTRODUCTION

- Inattentional blindness is missing a stimulus within the visual field when cognitive resources are spent elsewhere (Bredemeier et al., 2014)
- Some stimuli manage to break through the attentional filter
 - Mood plays a critical role in what people see and remember (Spindle & Riener, 2013)
 - Stimuli congruent with one's mood and goals are more likely to be noticed and remembered (Becker & Leininger, 2011)
- Current study looked at how a participant's mood influenced what words would be noticed and remembered when they were presented at a speed on the threshold of conscious awareness (.03058 Sec)

METHODS

- Undergraduate RIT students (N= 29 mean age = 20.62, SD = 5.85, 44.8% male and 55.2% female)
- 15 participants were in a positive mood, 14 were in a negative mood (PANAS).
- Ishihara Color Vision Test
- Mood Induction Video: Positive, Negative, or Neutral
- PANAS to assess mood state after video
- Color Identification Task (see below)
- Recall Task
- Recognition Task (99 words, 30 from the task and 69 new)

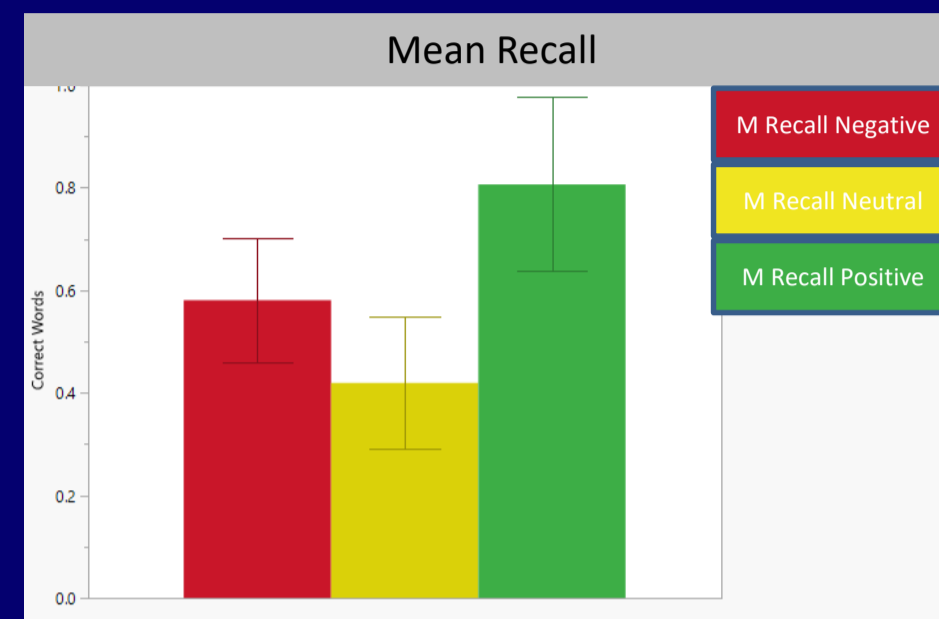


Figure 1. Mean correct recall for negative, neutral, and positive words for all participants

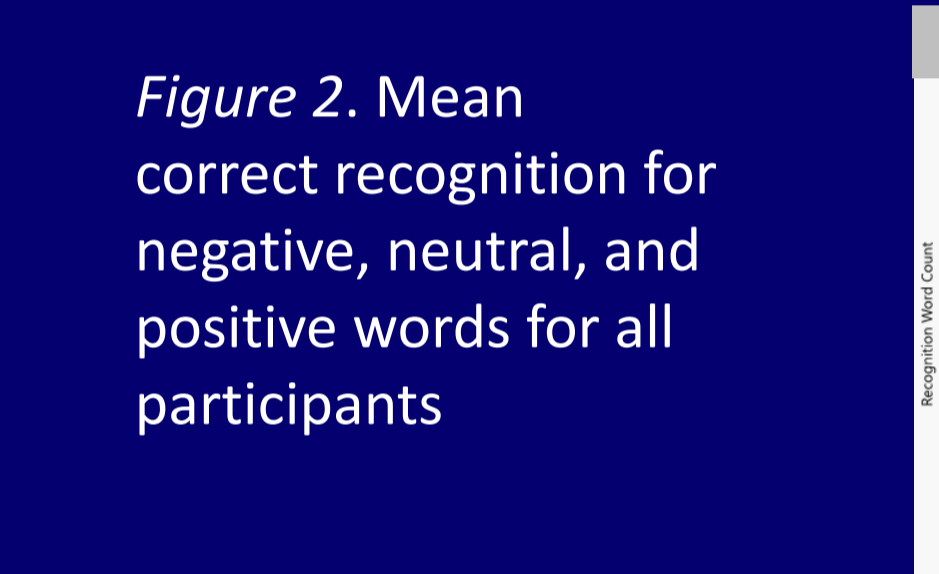


Figure 2. Mean correct recognition for negative, neutral, and positive words for all participants

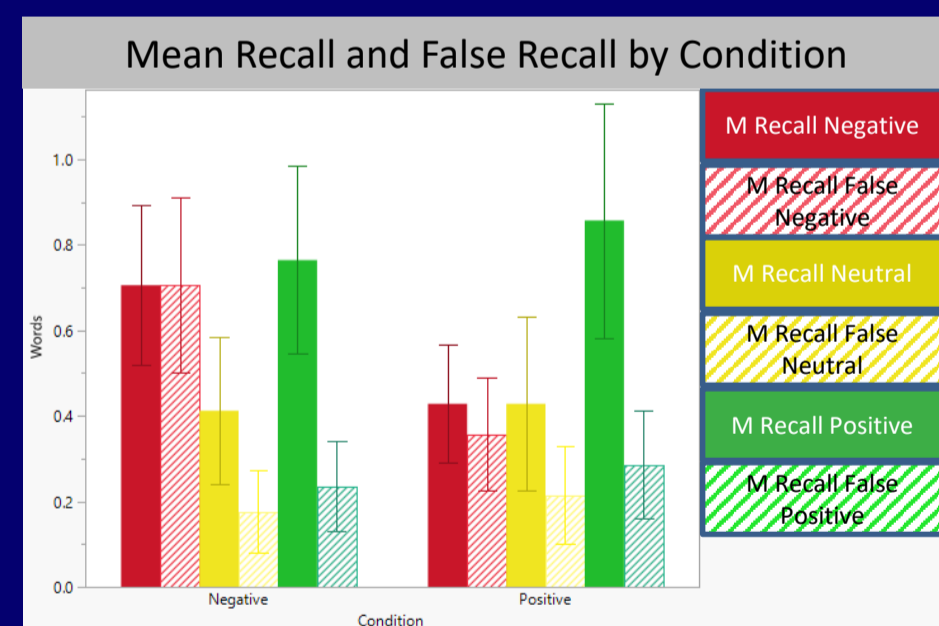


Figure 3. Correct recall for negative, neutral, and positive words, and false recall for negative, neutral, and positive words by mood state (negative or positive)

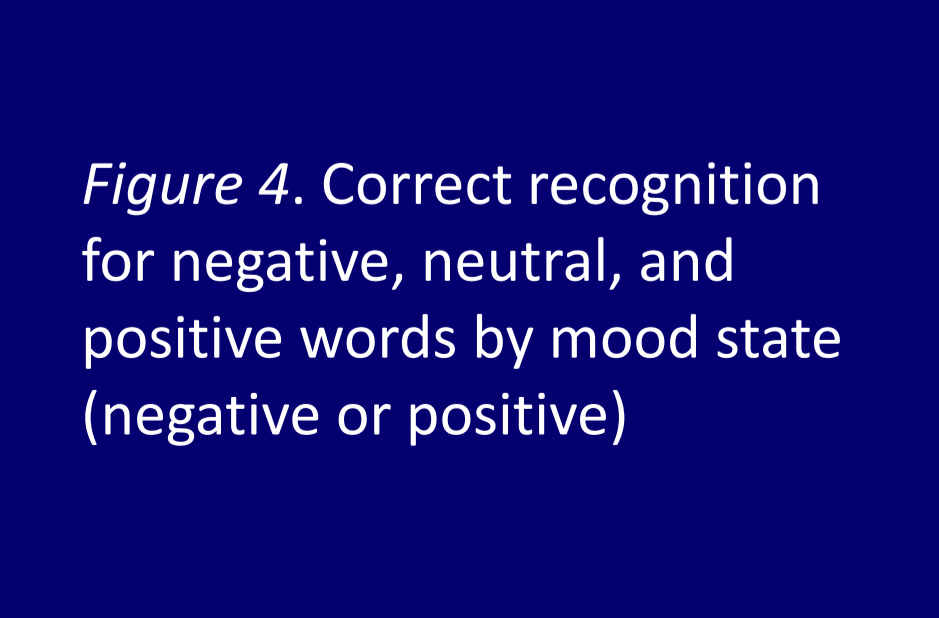


Figure 4. Correct recognition for negative, neutral, and positive words by mood state (negative or positive)

DISCUSSION

- There was a three-way interaction between task, valance and mood.
 - Participants in a negative mood recognized more negative words than positive words and neutral words
 - Participants in a positive mood recognized more positive words than neutral words and more negative words than neutral words
 - The broaden-and-build theory of positive emotions suggests that positive emotions broaden one's awareness and encourage novel, varied, and exploratory thoughts and actions (Fredrickson, 2006)
- Word Recognition was better than Recall
 - Negative words were recognized the most, followed by positive words. Neutral words were recognized significantly less than both positive and negative words consistent with the emotional memory enhancement theory (Serenio et al., 2015)
- Participants in a negative mood recalled more false negative words (words that were not in the task) than those in a positive mood consistent with the negative dominance theory (Wicker et al., 1979)
 - People in a negative mood are more likely to see everything in a negative light. The results here show that those in a negative mood thought of other negative words they were not shown more than participants in a positive mood.

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