Why Do Emotion Words Capture Our Attention?

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INTRODUCTION

"...The connection between attention and emotion is a robust, reliable and important one" (Yiend, 2010, pp. 3-4)

Categorical Negativity Theory (Pratto & John, 1991) purports attention is influenced by valence, how positive or negative a word is The Arousal Hypothesis (Russell, 1980) posits that words capture attention based on arousal. or how interesting a word is

Repetition blindness (RB)

RB is a failure to notice the second instance of a word when presented twice closely in time

RB occurs because of token individuation. a perceptual error where the two separate instances are processed and remembered together

Silvert et al. (2004) found negative emotion words were remembered better when shown in RSVP once, but when they were repeated, negative words had the worst recall Knickerbocker and Altarriba (2013) found RB occurred more with negative emotion words (e.g., sad) than negative emotion-laden words (e.g., death)

The current study examined negative and positive emotion words, as well as neutral words using a RSVP paradigm

METHOD

• 74 participants (*M* age= 19.68); 51.4% male and 48.6% female





DISCUSSION

- Interaction of valence and repetition
- Consistent with the findings of Knickerbocker and Altarriba (2013), it seems RB effects can be affected by emotion/valence. This is inconsistent with categorical negativity theory, as recall of negative words was impacted by whether or not the word was
- Interaction of repetition and arousal
 - The arousal hypothesis is partially supported such that high arousal words were recalled more often than low arousal words in the unrepeated condition.
- Interaction of valence and arousal
 - A word's arousal value only makes a difference on recall if it is positivelyvalenced. This suggests that valence and
- Overall, positive words do not exhibit typical RB
 - Positive word recall benefitted from
 - Improved performance could potentially be due to an ability to token individuate between two instances of repeated positive words better than other word types.
- Priming effects may play a role as well.
- Knickerbocker, H., & Altarriba, J. (2013). Differential repetition blindness with emotion and emotion-laden word types. Visual Cognition. 5, 599-627.
- Pratto, F., & John, O. P. (1991). Automatic vigilance: The attention-grabbing power of negative social information. Journal of Personality and Social Psychology, 61, 380-391. doi:10.1037/0022-3514.61.3.380
- Russell, J. A. (1980). A circumplex model of affect. Journal of Personality and Social Psychology, 39, 1161-1178. doi: 10.1037/h0077714
- Silvert, L., Naveteur, J., Honoré, J., Sequeira, H., & Boucart, M. (2004). Emotional stimuli in rapid serial visual presentation. Visual Cognition, 11, 433-460.
- riend, J. (2010). The effects of emotion on attention: A review of attentional processing of emotional information. Cognition and Emotion, 24, 3-47.

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