Interactions of emoticon valence and text processing

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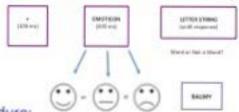
Research Question:

Emoticons in informal text communication are common worldwide. They have the potential to reveal emotion and social functions, analogous to facial expression and body gestures in face-to-face verbal communication.

Do emoticons and words share a lexicon?

In the present study we bring emoticons into the laboratory to examine the interrelation of emoticons and words in lexical decision (LD) experiments with spatially superimposed emoticon-word pairs.

Experimental Task:



Procedure:

Lexical Decision (LD): Word or not a word? emoticon prime-word target

Emoticon Decision (ED): Happy or Sad? (or neutral) word prime-emoticon target

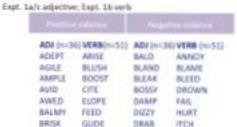
Expt.1: Emoticon primes repeat over trials. LD and ED tasks performed with different ss

Expt.2: Word primes repeat. Task: Lexical Decision (only)
Different ss see verb and adjective (adj) targets

2a: cheer vs. groan w/adj target; 2b: sigh vs. grin w/ verb target

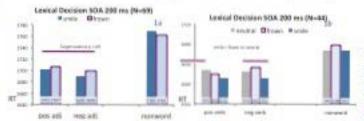
Materials:

BUFF



Results Expt1. abc (repeated emoticon prime):

DUSTY

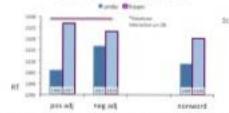


Summary:

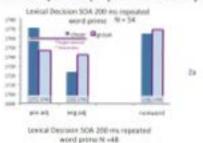
Lexical decision task: no interaction of emoticon valence with target valence.

Emoticon decision task: emoticon valence is significant and marginally interacts with target valence.

Desired Service SOA 200 ms (N=20)



Results Expt2ab (repeated word prime):



Egro-Quyh.

Summary: Prime-target valence congruity slows LD (adj targets) when prime word repeats.

Discussion:

- Effect of target valence also evident w/ D':
 - adjectives (Expla) but not verbs (Explb).
 - word (Expla/2a) and emotion primes.
- Valence congruity facilitation evident only in emoticon-target pairs in ED positive (Exp1b).
- Valence congruity inhibition from repeated word primes in LD (Espas).

Do emoticons and words share a lexicon? Prime (word)-target valence congruity:

- · LD suggests not easily.
- ED suggests possibly.
- · Asymmetry warrants further research.

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