

IS ANGER MORE ABSTRACT THAN FEAR?

A Construal Level Lens

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Anger

Fear

CLT conceptualizes basic emotions like fear and anger as low-level (concrete) emotions.

But is anger more abstract than fear?

- More social.
- Abstract, social concepts.
 - Abstract universal and social rules, and principles.
- A central emotion behind our moral compass.

- Less social.
- More concrete concepts.
 - e.g., physical properties of a threat (although anxiety can be more abstract than fear).
- A central emotion in threat processing.

Averill (2012), Zahn et al. (2007)

LeDoux (2014), Mobbs et al. (2019), Trope & Liberman (2010)

Construal Level & Regulatory Scope

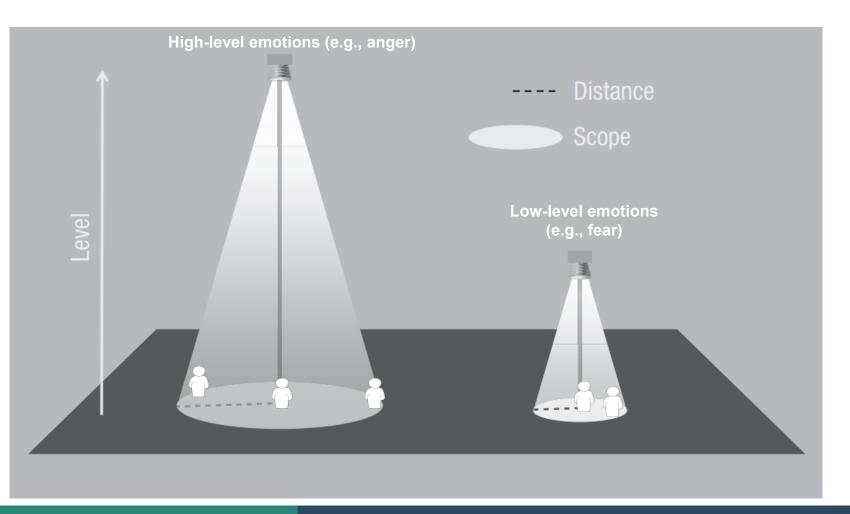
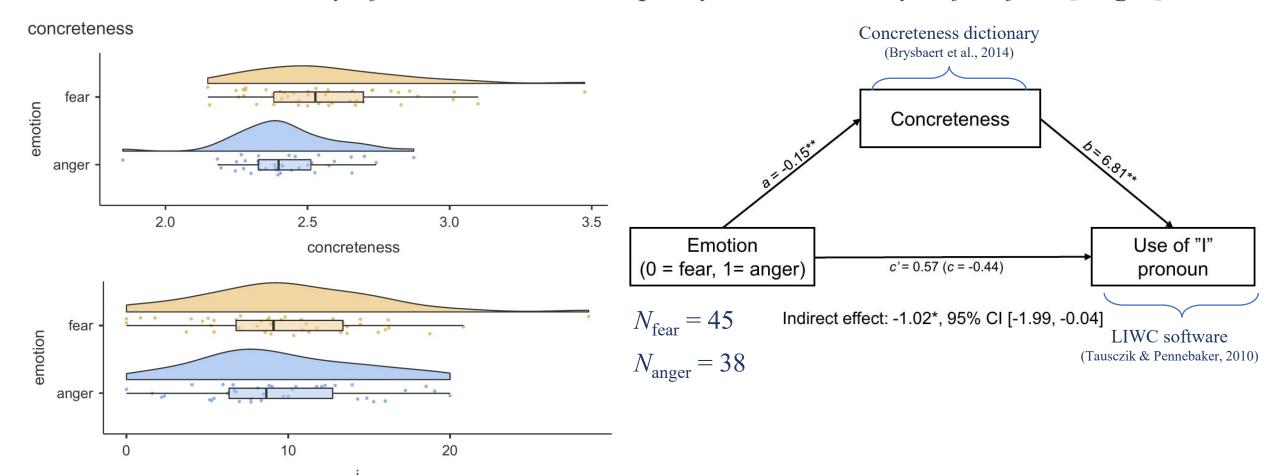


Figure adapted from:

Trope, Y., Ledgerwood, A., Liberman, N., & Fujita, K. (2021). Regulatory Scope and Its Mental and Social Supports. *Perspectives on Psychological Science*, *16*(2), 204-224.

Dataset 1: Fear vs. personal anger (autobiographical writing task)

"Please recall a memory of an event within the past year that made you feel fear [anger]."



Dataset 1: Fear vs. personal anger (autobiographical writing task)

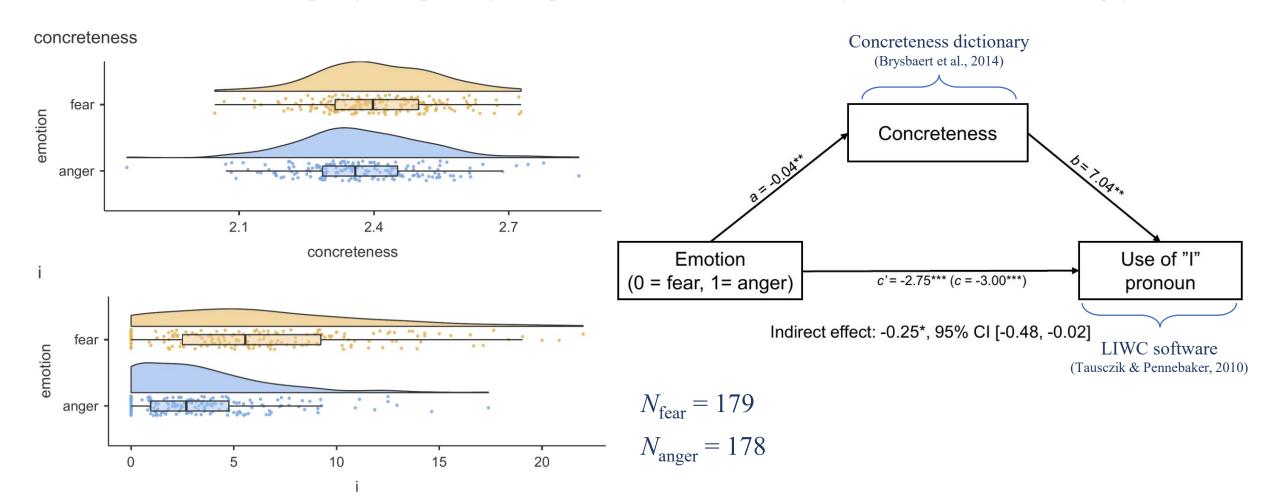
Correlation Matrix

		emotion	concrete	i	we_bin	they_bin
emotion	Pearson's r p-value	_ _				
concrete	Pearson's r	-0.308 ** 0.005				
i	Pearson's r p-value	-0.042 0.707	0.295 ** 0.007	_		
we_bin	Pearson's r	-0.004 0.972	0.071 0.521	-0.399 *** < .001	_ _	
they_bin	Pearson's r p-value	0.103 0.356	-0.100 0.370	-0.059 0.597	0.053 0.637	_ _

Note. emotion (0 = fear condition, 1 = anger condition), concreteness = proportion of concrete words, i = proportion of first-person pronoun "I", we_bin (0 = no first-person pronoun "we" used, 1 = first-person pronoun "we" used), they_bin (0 = no third-person pronoun "they" used, 1 = third-person pronoun "they" used). * p < .05, ** p < .01, *** p < .001.

Dataset 2: Anxiety vs. moral anger (writing task)

"Please think about a specific aspect of the pandemic that has made you most worried [angry]"



Dataset 2: Anxiety vs. moral anger

"Please think about a specific aspect of the pandemic that has made you most afraid [angry]"

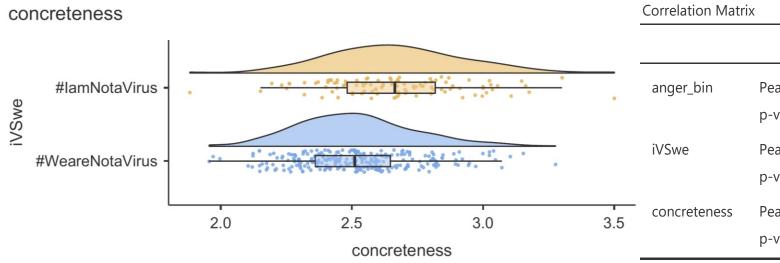
Correlation Matrix

		emotion	concreteness	i	we_bin	they_bin
emotion	Pearson's r p-value	_ _				
concreteness	Pearson's r p-value	-0.130 * 0.014	_ _			
i	Pearson's r p-value	-0.339 *** < .001	0.259 *** < .001	_		
we_bin	Pearson's r p-value	-0.190 *** < .001	0.105 * 0.047	-0.121 * 0.022	_	
they_bin	Pearson's r p-value	0.413 ***	-0.015 0.780	-0.285 *** < .001	-0.038 0.469	_ _

Note. emotion (0 = fear condition, 1 = anger condition), concreteness = proportion of concrete words, we_bin (0 = no first-person pronouns used, 1 = first-person pronouns used), they_bin (0 = no third-person pronouns used, 1 = third-person pronouns used). * p < .05, ** p < .01, *** p < .001.

Dataset 3: Twitter (N = 607)

Tweets tagged with #WeareNotaVirus VS #IamNotaVirus.



		anger_bin	iVSwe	concreteness
anger_bin	Pearson's r p-value	_ _		
iVSwe	Pearson's r p-value	0.260 *** < .001	_ _	
concreteness	Pearson's r p-value	-0.132 * 0.013	-0.274 *** < .001	<u> </u>

Note. anger_bin (0 = no use of anger-related words, 1 = use of anger-related words), iVswe (0 = first-person pronoun "I" in Tweet hashtag, 1 = first-person pronoun "we" in Tweet hashtag), concreteness = use of concrete words. * p < .05, ** p < .01, *** p < .001.

To summarize...

Results suggest that...

- Anger (vs. fear) activates more abstract mental representations.
- Anger (vs. fear) causes people to consider socially distant others.
- Consistent with Construal Level Theory and Regulatory Scope Theory.
- "I am more concrete [and fearful?] than We" (Yin et al., 2022)
- Furthers our understanding of the social function of anger.
- ! Results are exploratory. Future (preregistered) studies needed to replicate findings.

Thank you!

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