

- The Black Lives Matter movement has a strong social media presence
- A Pew Research Center survey found 48% of Black social media users surveyed made at least one post in solidarity with Black Lives Matter.
- Tweets pertaining to Black Lives Matter are known to carry no correlation to childhood trauma, though previous studies indicate traumatic events can
 negatively affect mental health in young adults.
- However, aspects of adolescent mental health in regards to the movement are unknown.

The purpose of this study was to determine the prevalence of references to certain emotions associated with the Black Lives Matter movement on Twitter

METHODS

Design:

• The study employed content analysis of 100 tweets using the codebook below.

Search Strategy:

• The latest tweets containing the phrases "I feel" or "Makes me feel" and the hashtag "BLM" were collected over the course of approximately one week in July 2021 Codebook

Variable	Definition					
Happiness	Tweet contains the words "happy, glad, grateful" or close synonyms in a literal sense pertaining to the writer					
Security	Tweet contains the words "safe, protected" or close synonyms in a literal sense pertaining to the writer					
Depression	Tweet contains the words or phrases "depressed, suicide, kill myself, hopeless" or close synonyms in a literal sense pertaining to the writer					
Anxiety	Tweet contains the words or phrases "afraid, scared, panic" or close synonyms in a literal sense pertaining to the writer					
Discomfort	Tweet contains the words or phrases "disgusted or sick" or close synonyms in a literal sense pertaining to the writer					
Anger	Tweet contains the words or phrases "Mad, angry, furious" or close synonyms in a literal sense pertaining to the writer					

Data Collection:

- 100 suitable tweets were identified using the criteria under "Search Strategy".
- Twitter demographic information (amount of retweets, likes, comments, verified status), and the following open codebook was compiled

Data Analysis:

- Descriptive statistics was used to calculate the percentage of tweets that fell under each codebook variable.
- Median likes, retweets, and comments were calculated per tweet for each codebook variable.

Analysis of Emotions in #BLM Tweets on Twitter

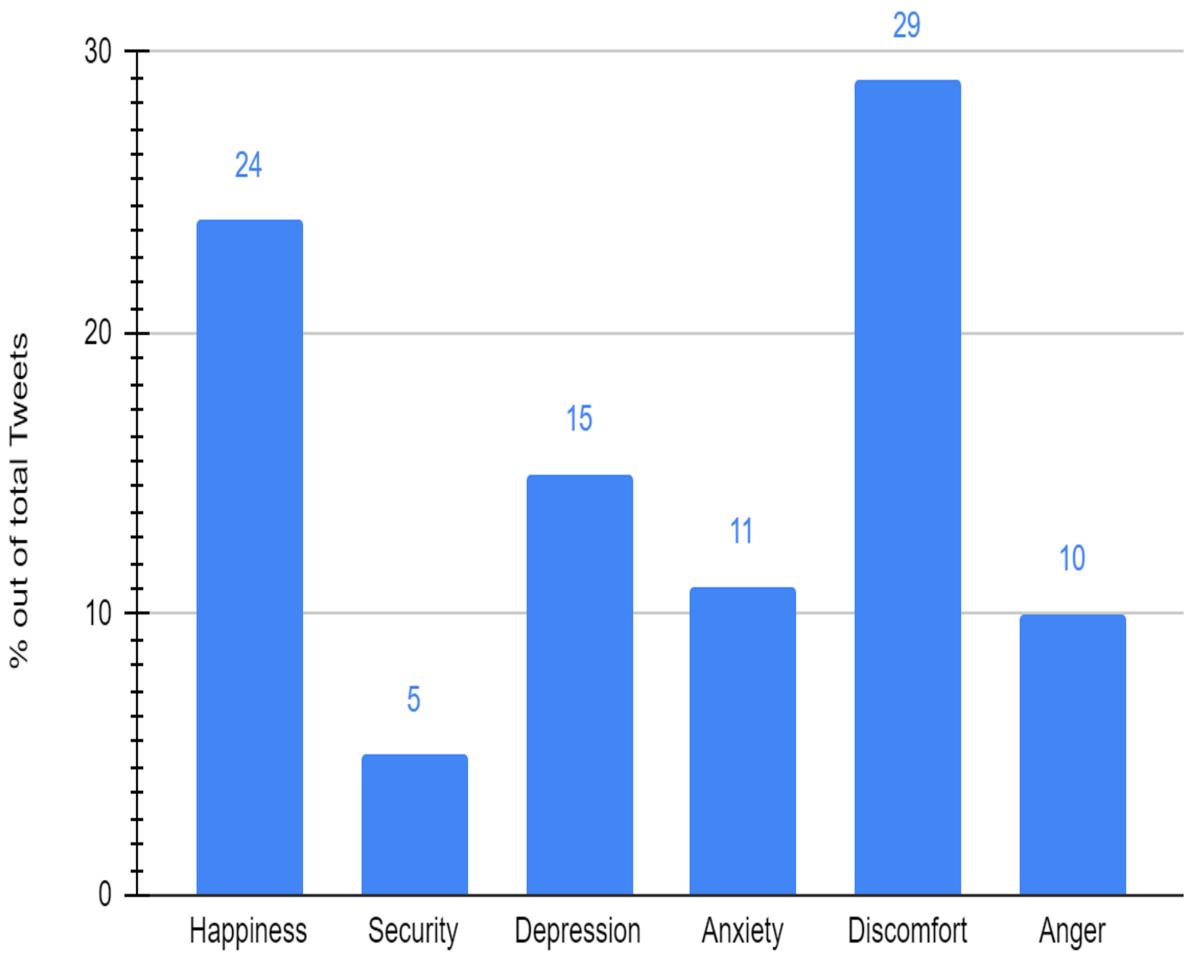
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RESULTS

			Demographic Information:					
	All tweets (n = 100)	Happiness (n = 24)	Security $(n = 5)$	Depression (n = 15)	Anxiety (n = 11)	Discomfort (n = 29)	Anger (n = 10)	
Median Likes	1	0	1	1	1	1	1	
Median Retweets	0	0	0	0	0	0	1	
Median Comments	0	0	0	0	0	0	0	
% Verified Users	3%	0%	0%	0%	0%	3.45%	0%	

100 tweets were collected. Of the collected tweets, 82% referenced a codebook variable. 11% of tweets met more than one codebook variable.

% of Tweets with codebook variables



* Some tweets met multiple variables

Example c	odebook t	weets:						
	Happi	ness:			Se	curity:		
It makes me feel good to see all the young people i know and follow standing for what they believe in and doing what they can to help. #BLM 5:08 PM · Jun 2, 2020 · Twitter for Android				It absolutely makes me feel more secure if more peop said it and believed it. Thank you. U have to realize there are people who label people who tweet #BLM o protest for the cause as terrorists if a Target burns, but a literal terrorist who blows up a block is just "depressed" 10:50 AM · Dec 29, 2020 · Twitter for iPhone				
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CONCLUSIONS

<u>Findings:</u>

- The most referenced emotion was "Discomfort" (29%), followed by "Happiness" (24%), while 26% referenced either "Depression" or "Anxiety"
- The least referenced emotions were "Security" (5%) and Anger (10%).
- These findings indicate the variety of emotions referenced on Twitter in regard to the #BLM.
- The median number of likes across all tweets was one and the median number of retweets across all tweets was one, demonstrating little interaction with these tweets.

Limitations:

- Small sample size may affect experimental accuracy
- User age cannot be determined, leaving room for error in assuming the sample applies to the larger teenage demographic
- Tweets do not provide conclusive information regarding user's mental health
- Timing may affect emotional responses to #BLM, since as the movement matures, different attitudes may arise, e.g. more widespread support or distrust

Implications:

- Greater awareness of how BLM affects those with depression and anxiety should be promoted, since demographic findings suggest little interaction with the collected tweets.
- Since 26% of tweets referenced depression or anxiety, Twitter may be a potential platform to identify user's needing mental health support.
- Future research should use a larger sample size and more comprehensive methods, e.g. interviews

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