

Supplementary materials

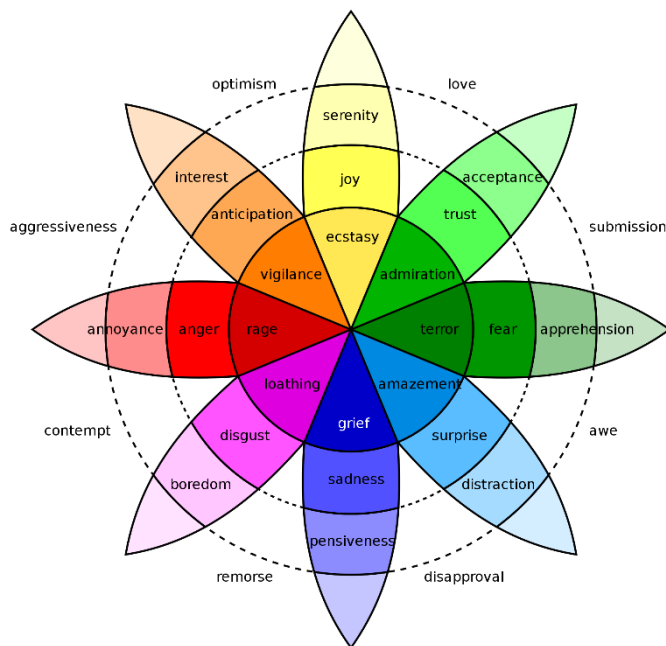


Figure 1. Plutchik's wheel of emotions. Adapted from Wikimedia Commons
https://commons.wikimedia.org/wiki/Category:Plutchik%27s_Wheel_of_Emotions

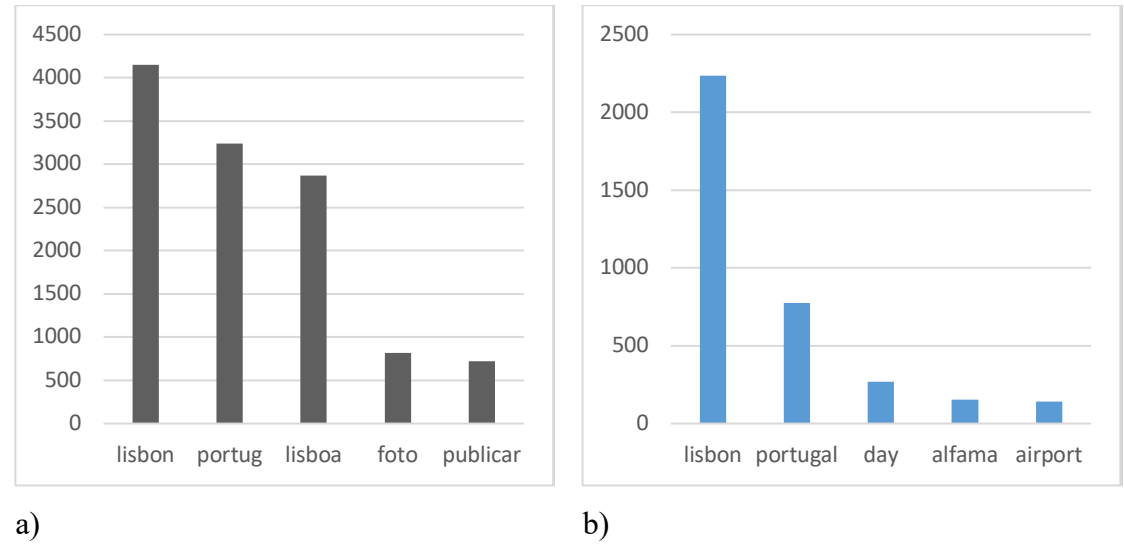


Figure 2. Frequency of words in Twitter comments in 2019 between 9 am and 7 pm in Lisbon: a) includes automatic comments, b) does not include automatic comments from the Twitter social network.

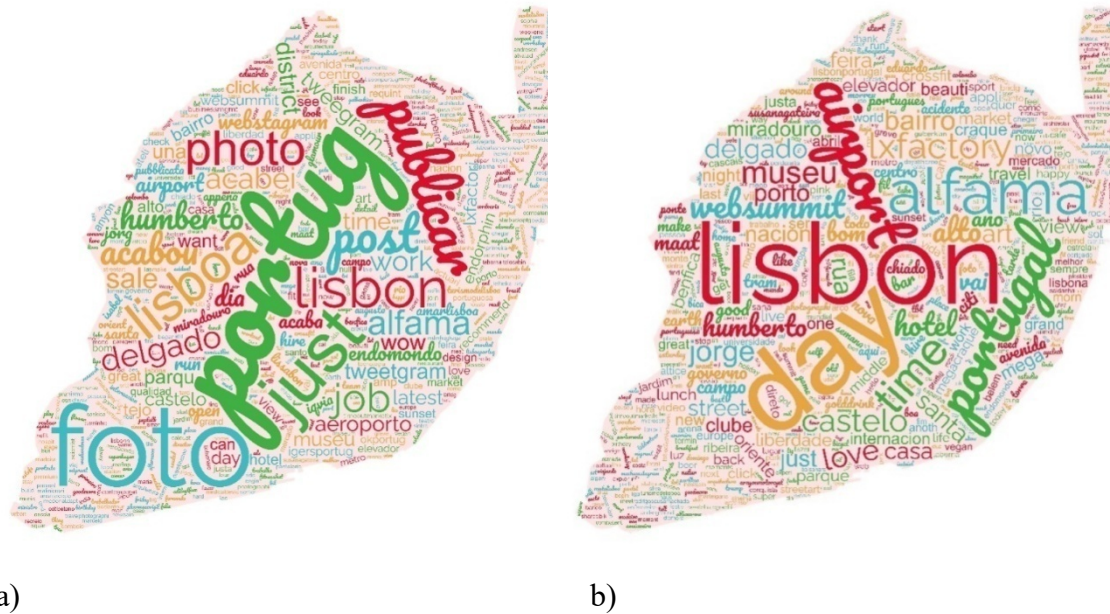


Figure 3. Word cloud, a) includes the words from the automatic comments, b) does not include the words from the automatic comments from the social network Twitter.

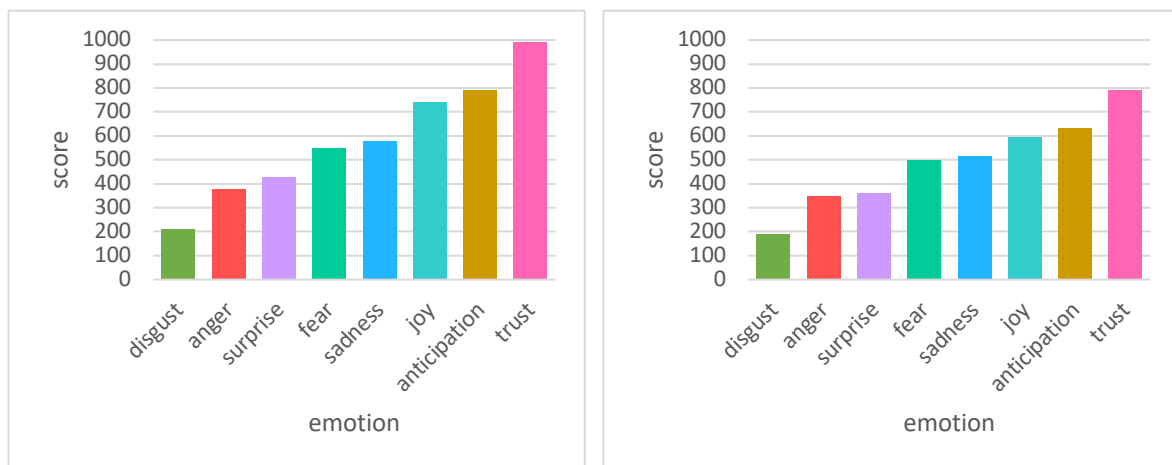


Figure 4. The total score of words associated with emotions in Portuguese Twitter comments in 2019 between 9 am and 7 pm: a) includes automatic comments, b) does not include automatic comments.

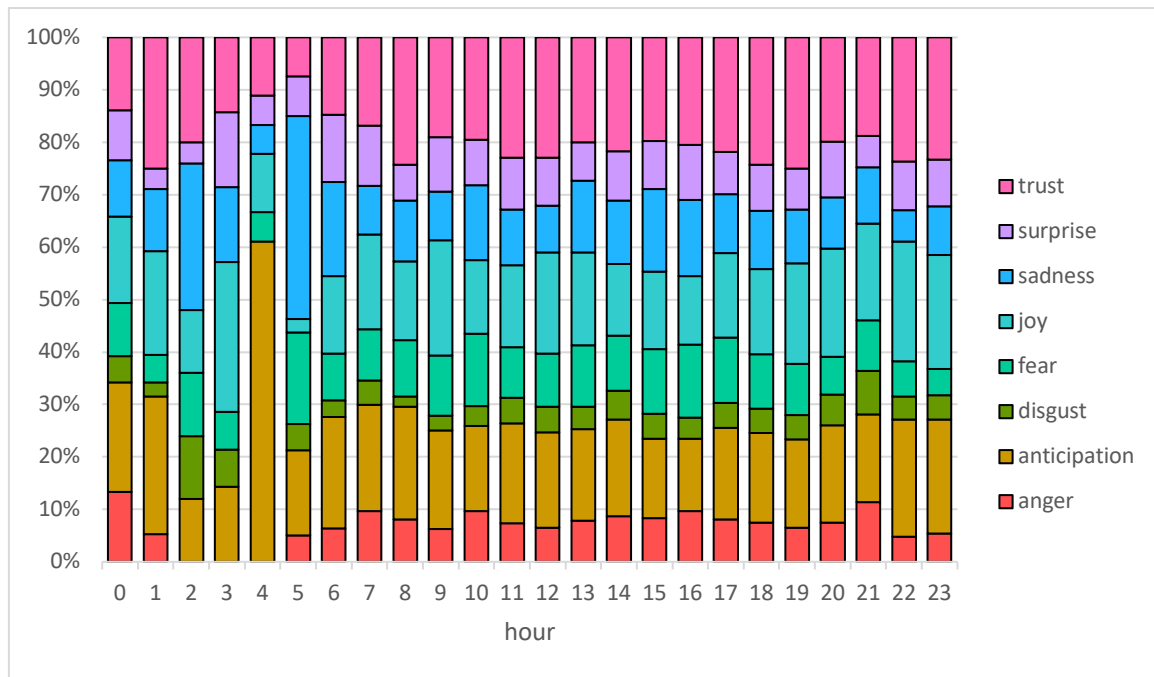


Figure 5. Percentage score of emotion-related words in Portuguese Twitter comments in 2019 across hours of the day (includes automated comments).