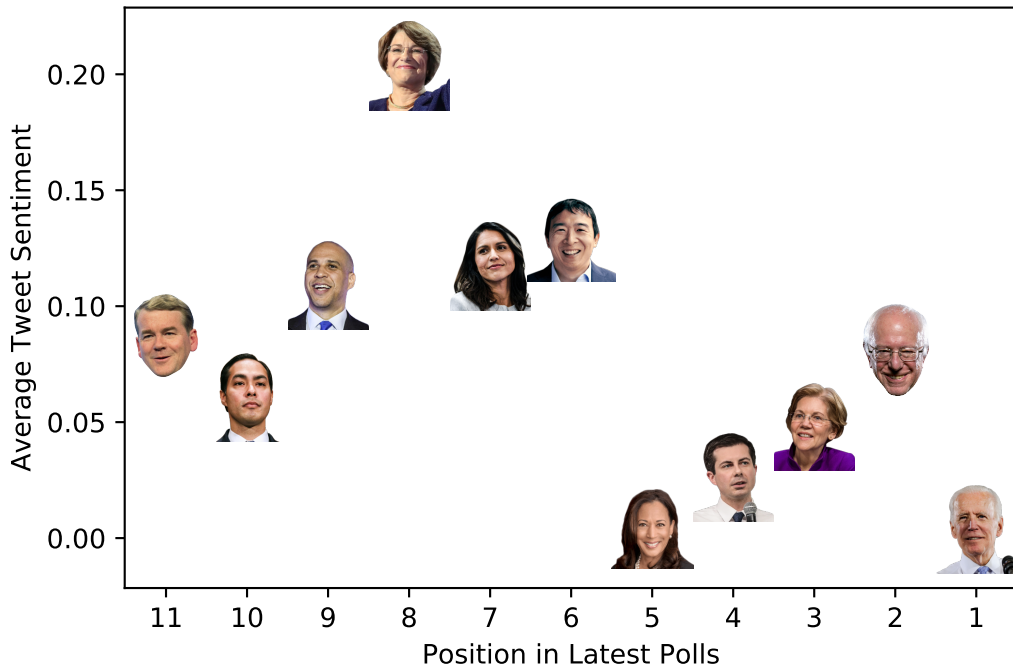


## Average Tweet Sentiment vs. Position in Polls



The ranking in the most recent polls is based upon the current RealClearPolitics (RCP) average.

Tweet sentiment is calculated using the TextBlob Python package and is conducted on all tweets of more than 30 words between Sep 2 and Nov 16 of 2019. 30 words was chosen to make the sentiment analysis more accurate. Sentiment is calculated on a continuous scale from -1 (negative) to 1 (positive), with a score of 0 having a neutral sentiment. Bloomberg and Steyer are excluded from this analysis because of their late entry into the race.