

R Programming Language

# Sentiment Analysis

Using Tidyverse and Shiny

- Sentiment by Sentence
- Synthesis of the Results

Now we can analyze whether a sentence is likely to be positive or negative using a **Sentiment Dictionary**

## Sentiment-Dictionaries

### Dictionaries

bing

#### Bing

Sentiment lexicon that classifies words as Negative or positive.

Source:

<https://www.cs.uic.edu/~liub/FBS/analysis.html>. Details: This lexicon was first published in: Mingqing Hu and Bing Liu,

Show 10 entries

**CHOOSE**  
a sentence ID

**LEXICON**

31

2

32

94

33

95

34

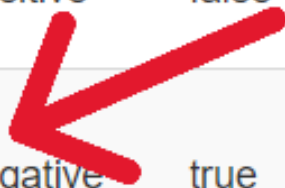
99

Sentences containing **sentiments** are evaluated and a **weight** is assigned

Assessment	Negation	Sen_Cor	Sen_Doc
likely positive	false	0	0.14
likely positive	false	0.03	0.25
likely negative	true	0.03	0.28
likely negative	false	0.04	0.32

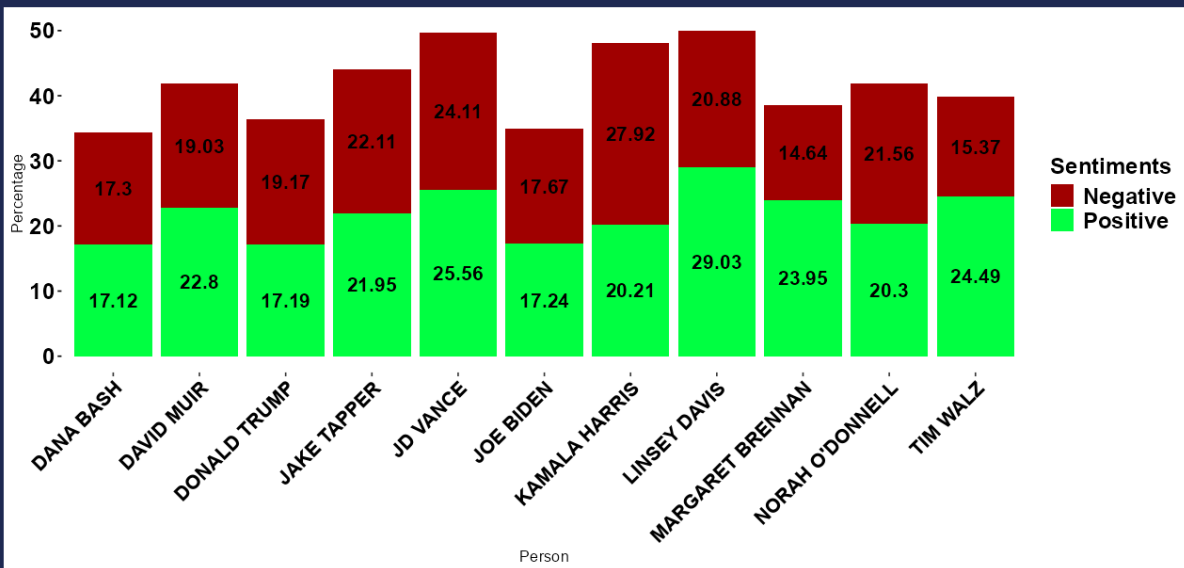
Predicted  
**SENTIMENT**

**WEIGHT**





# A synthetic graph is created with ggplot

Graph: Synthesis of the Sentiments by Sentence



The green bar is the addition of the weights of all the positive sentences and the red bar of the negative ones

# The same values are presented inside a table

Positive 	Negative 
17.12	17.3
22.8	19.03
17.19	19.17
21.95	22.11
25.56	24.11
17.24	17.67

# Thank you

Next steps:

- Filter words inside a dictionary
- Create a tab for Thematic Analysis

Visit the project:

[https://github.com/ortizpalanques1/debates\\_US\\_2024](https://github.com/ortizpalanques1/debates_US_2024)