# ELON MUSK

# Sentiment Analysis

## Using Tweets from 2010 to 2023

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GitHub: https://github.com/carlstedt1

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# Sentiment Analysis

## Using Tweets from **2010** to **2023**

### OVERVIEW

1. Text **Preprocessing** Basics
2. Sentiment from **Roberta Base**
3. Topics from **NMF Model**
4. **Change** after buying Twitter/X
5. **Negative** Tweets
6. Tesla Price **Prediction**

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# TEXT PREPROCESSING BASICS

## Original:

*@DavidSacks* The truth is always more complex and nuanced than what is reported. This platform now cares about the truth, even if we don't like the truth.

2023-06-11

Normal Text Preprocess

## Lemmatized:

*davidsack truth always complex nuance report platform care truth even like truth*

## Vectorized:

Tokenization

| N-GRAM | WEIGHT |
|---|---|
| truth | 0.711283 |
| care truth | 0.325565 |
| nuance | 0.305411 |
| complex | 0.248013 |
| report | 0.242121 |
| ..... | |

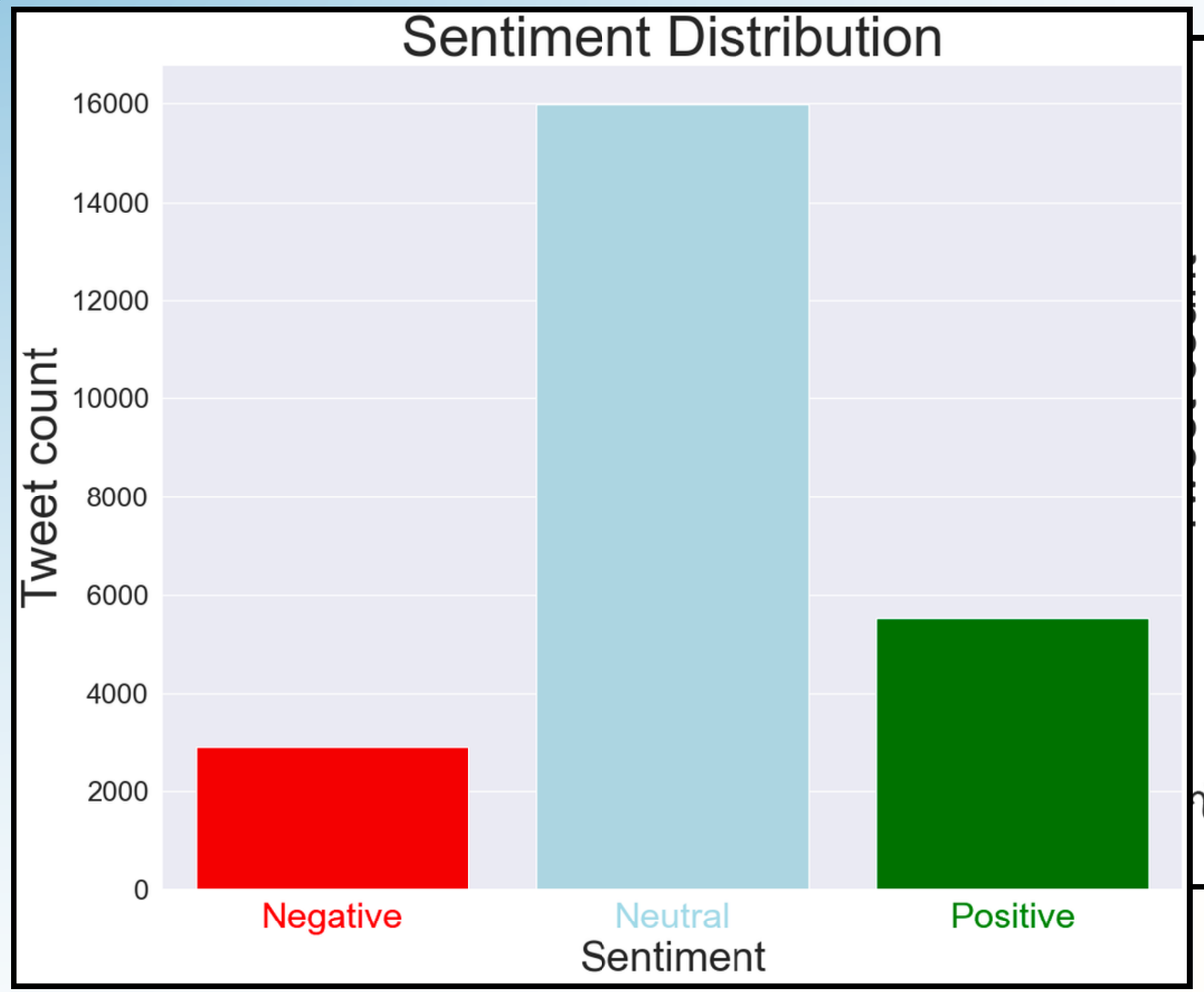
## Model:

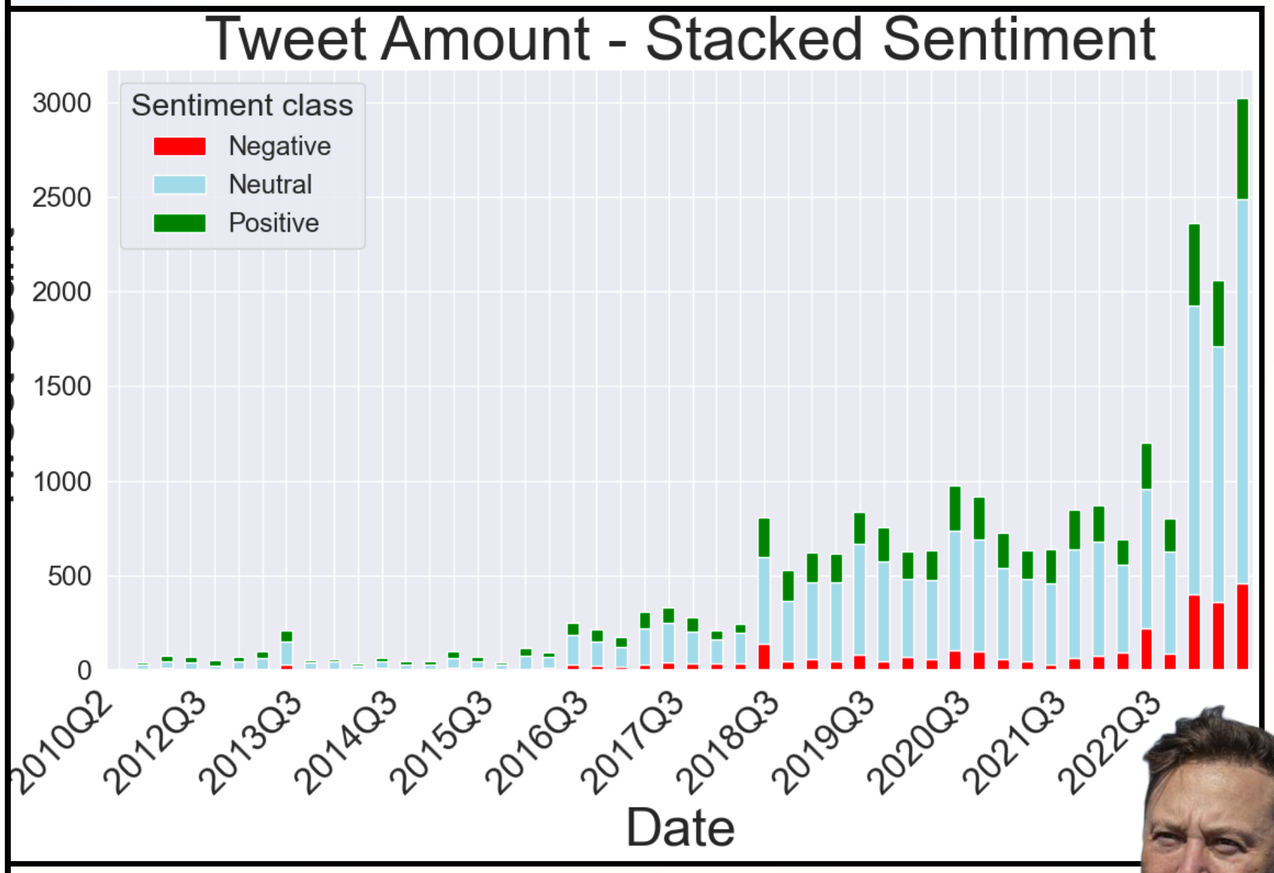
Sentiment:
***Roberta Base***

Topic:
***NMF***
*Non-negative Matrix Factorization*

# SENTIMENT RESULTS - ALL TIME

SLIDE: 1 - 2



# SENTIMENT RESULTS - ALL TIME

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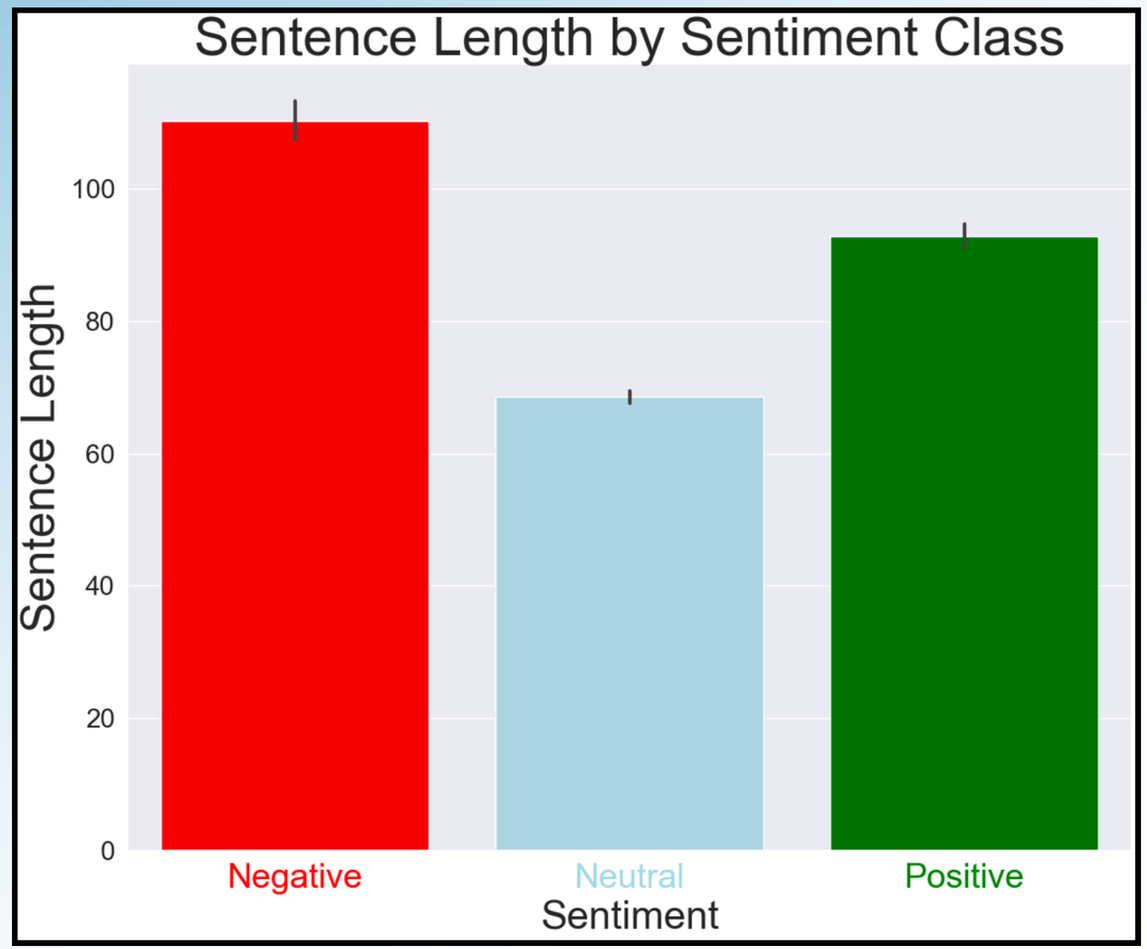
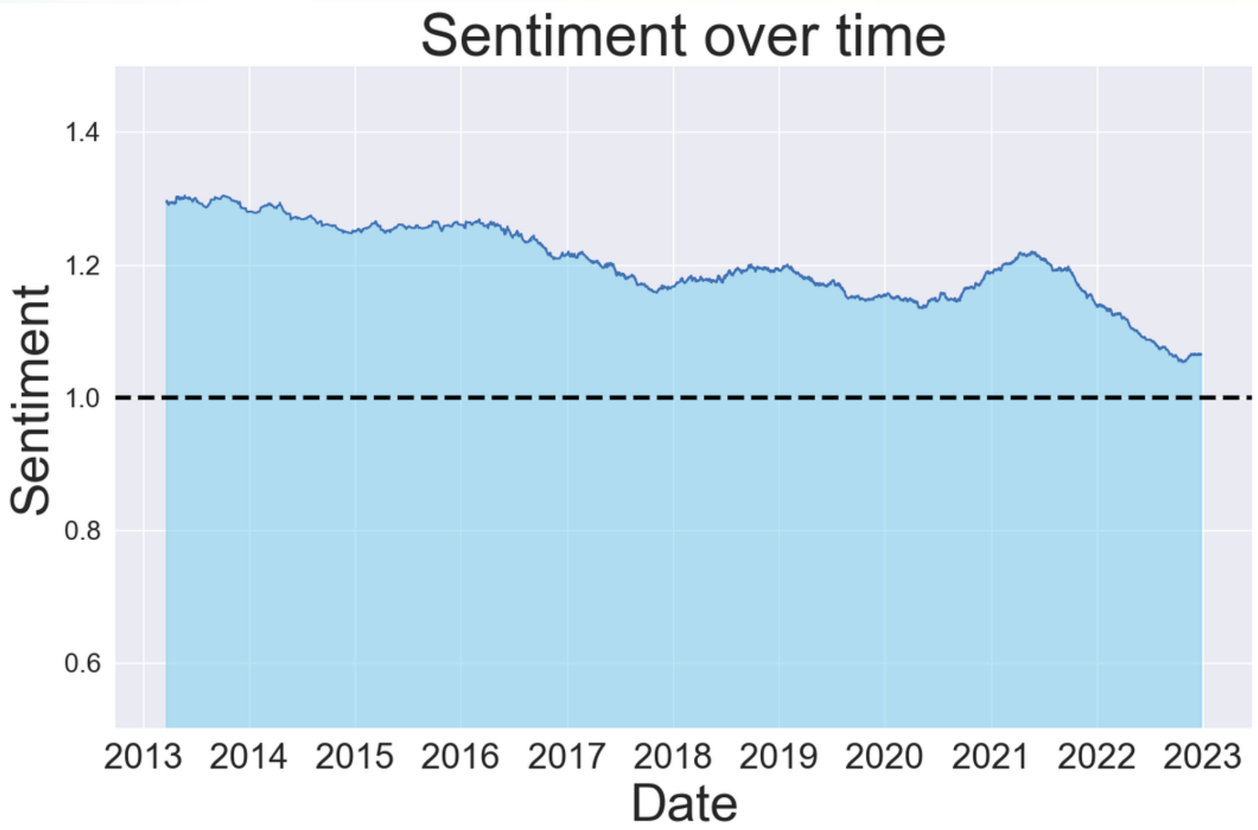


# SENTIMENT RESULTS - ALL TIME

SLIDE: 1 - 2

# TOPICS 2010 - 2022/04/14
Elon buys Twitter

SLIDE:
1 - 2 - 3

## CorpoElon

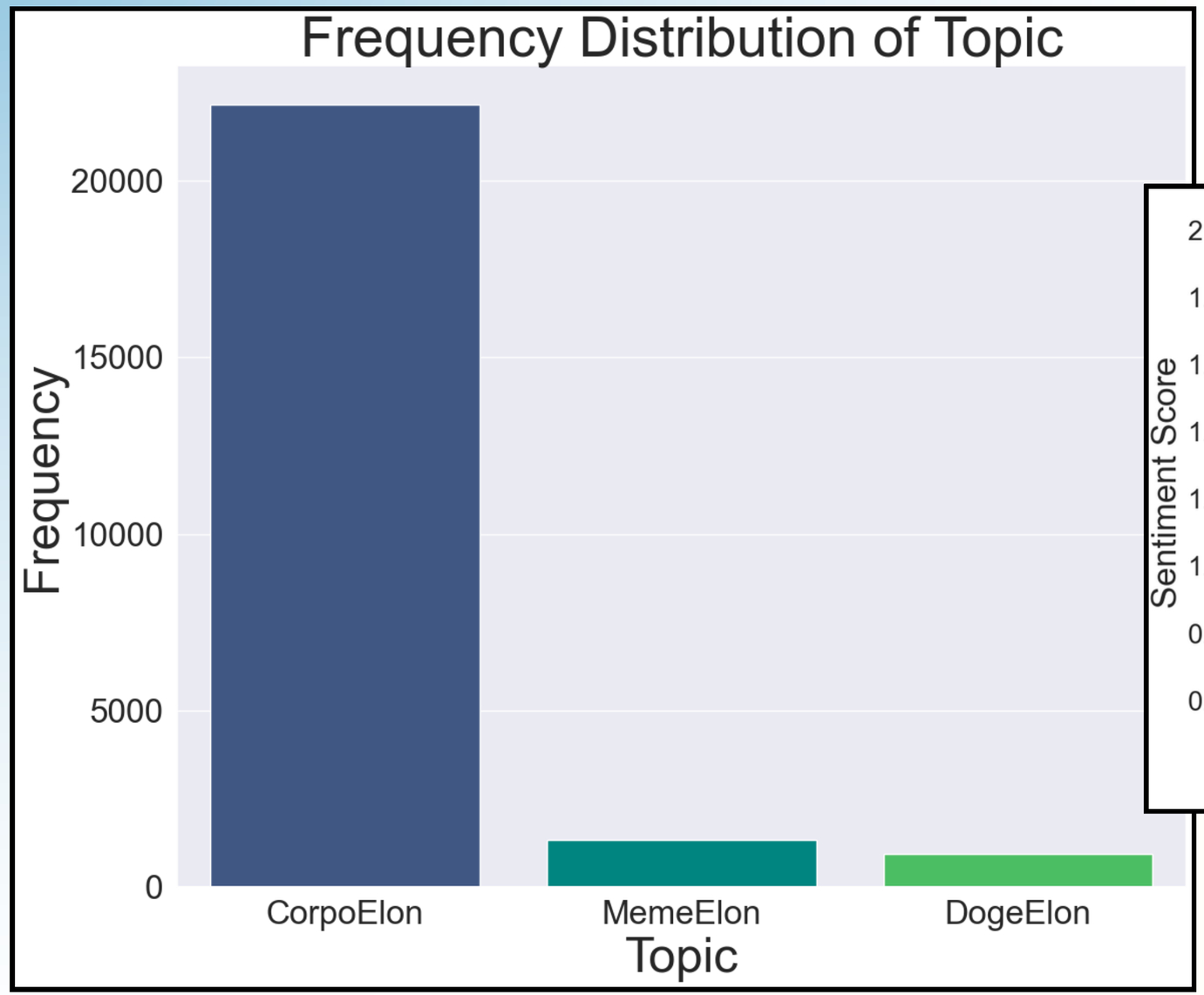
## MemeElon

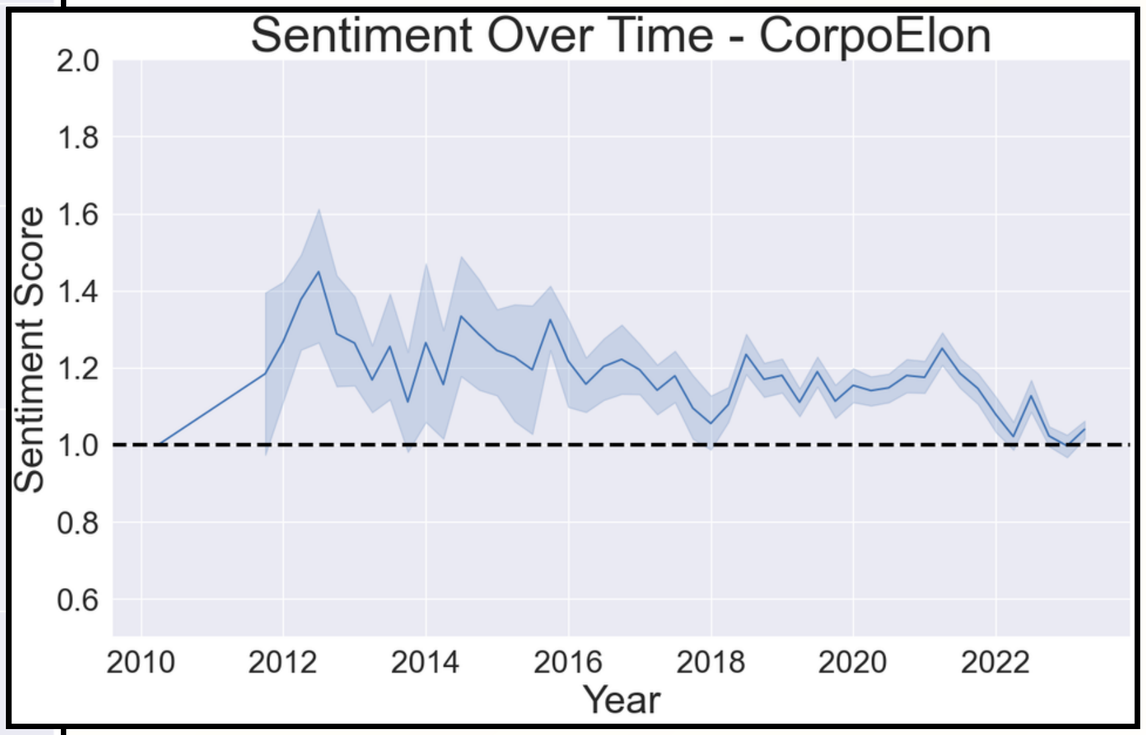
## DogeElon

# TOPICS 2010 - 2022/04/14

Elon buys Twitter

SLIDE: 1 - 2 - 3

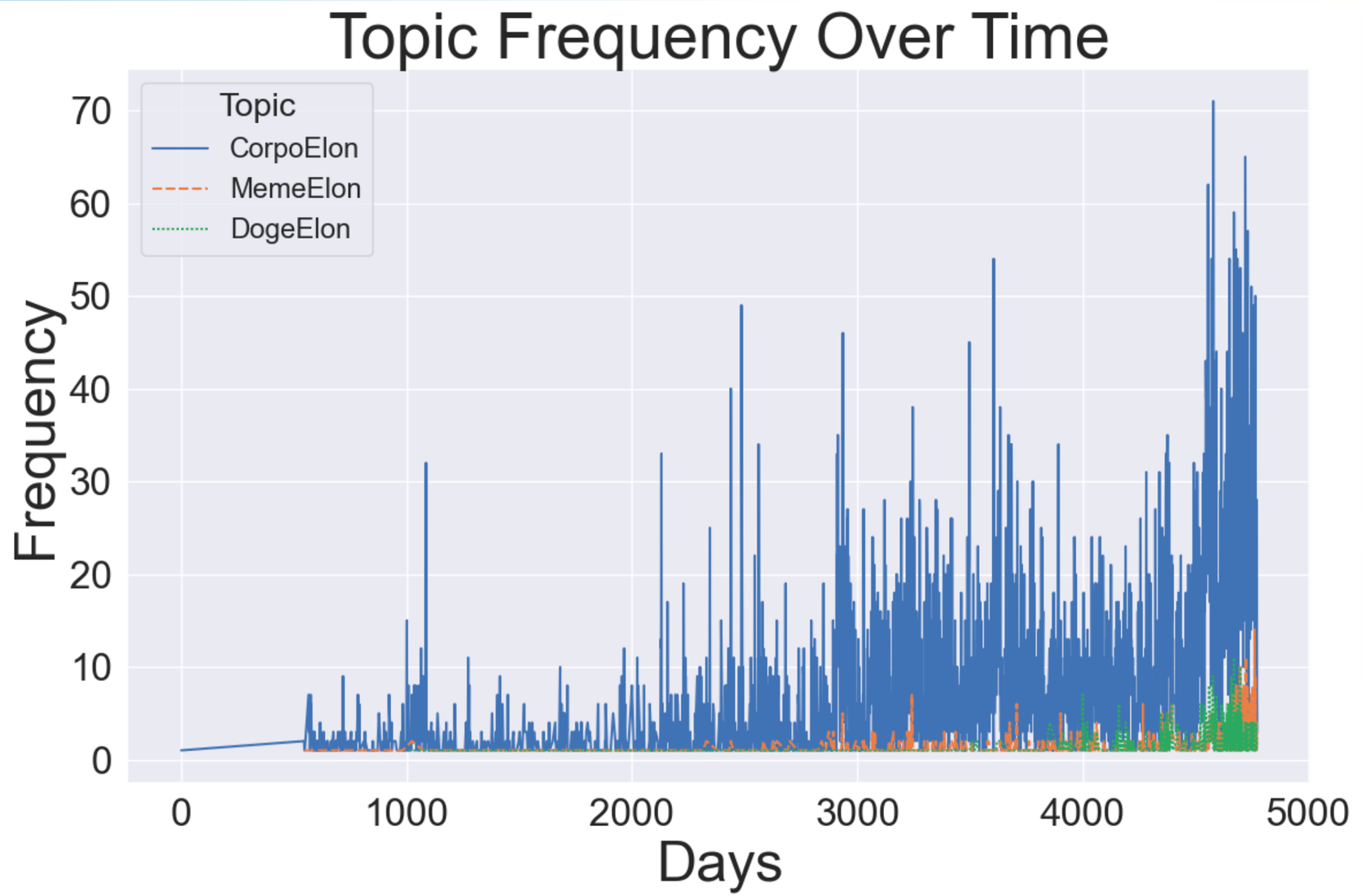


# TOPICS 2010 - 2022/04/14

Elon buys Twitter

SLIDE: 1 - 2 - 3



# TOPICS 2022/04/14 - NOW
Elon buys Twitter

SLIDE:
1 - 2 - 3

# Identified new Elon!

CorpoElon

MemeElon

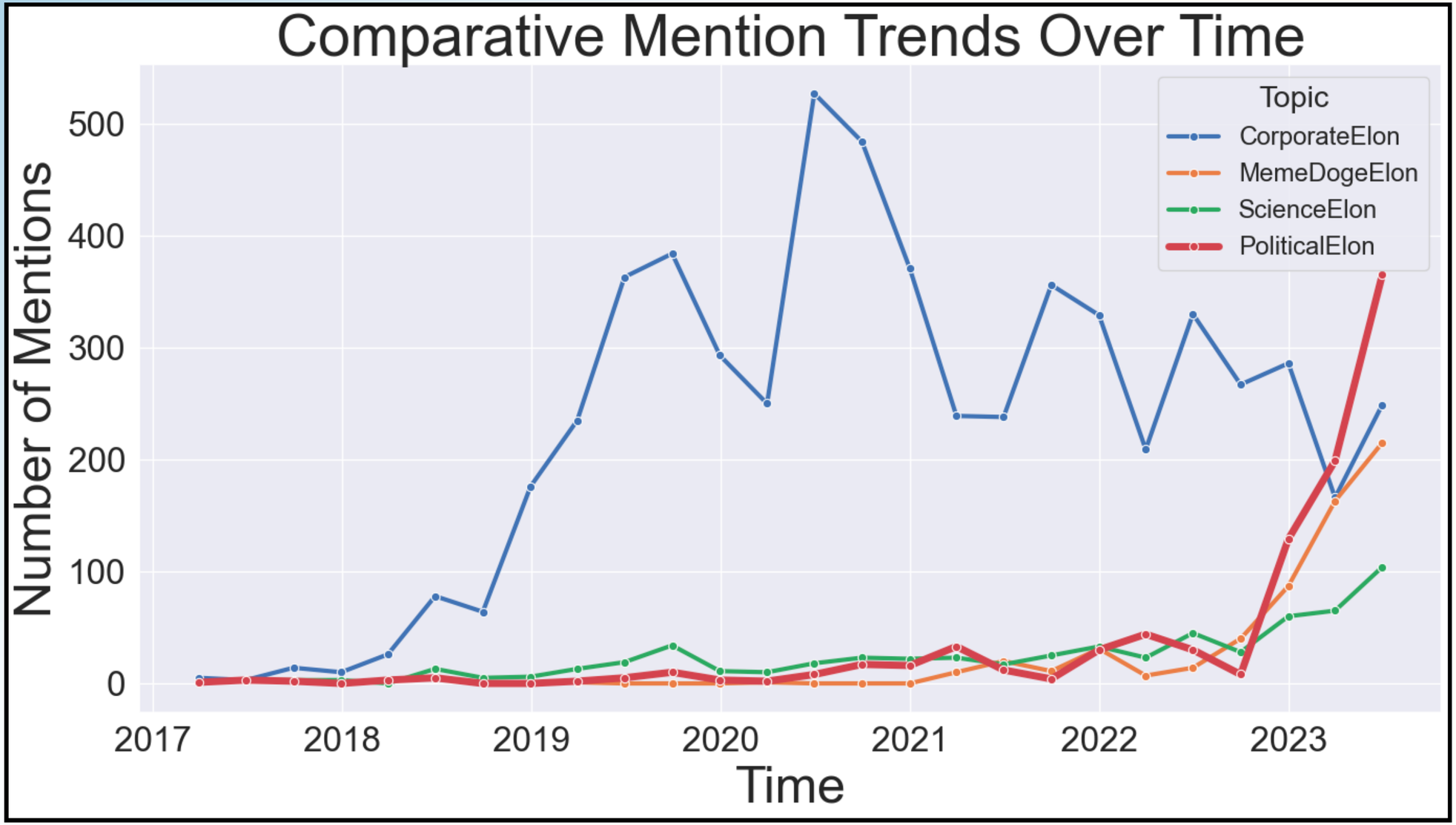
DogeElon

PoliticalElon

# TOPICS 2022/04/14 - NOW

Elon buys Twitter

SLIDE: 1 - 2 - 3



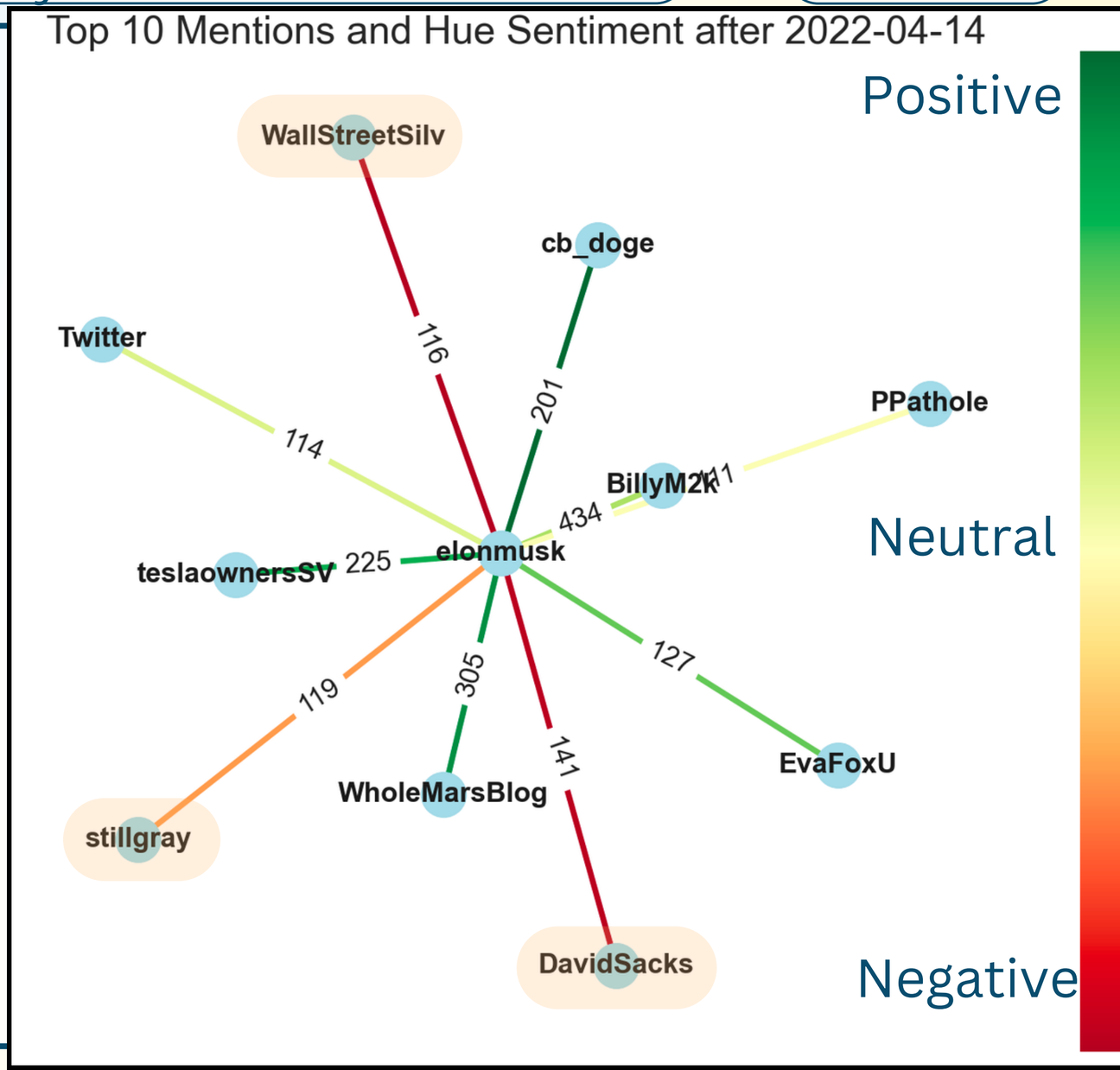
# TOPICS 2022/04/14 - NOW

Elon buys Twitter

SLIDE: 1 - 2 - 3

## Negative Sentiment Mentions:

- **@WallStreetSilv**:
  - GenZ Pessimist Investor
- **@DavidSacks**:
  - Political Venture Capitalist
- **@stillgray**:
  - Controversial Political Doomsday Commentator



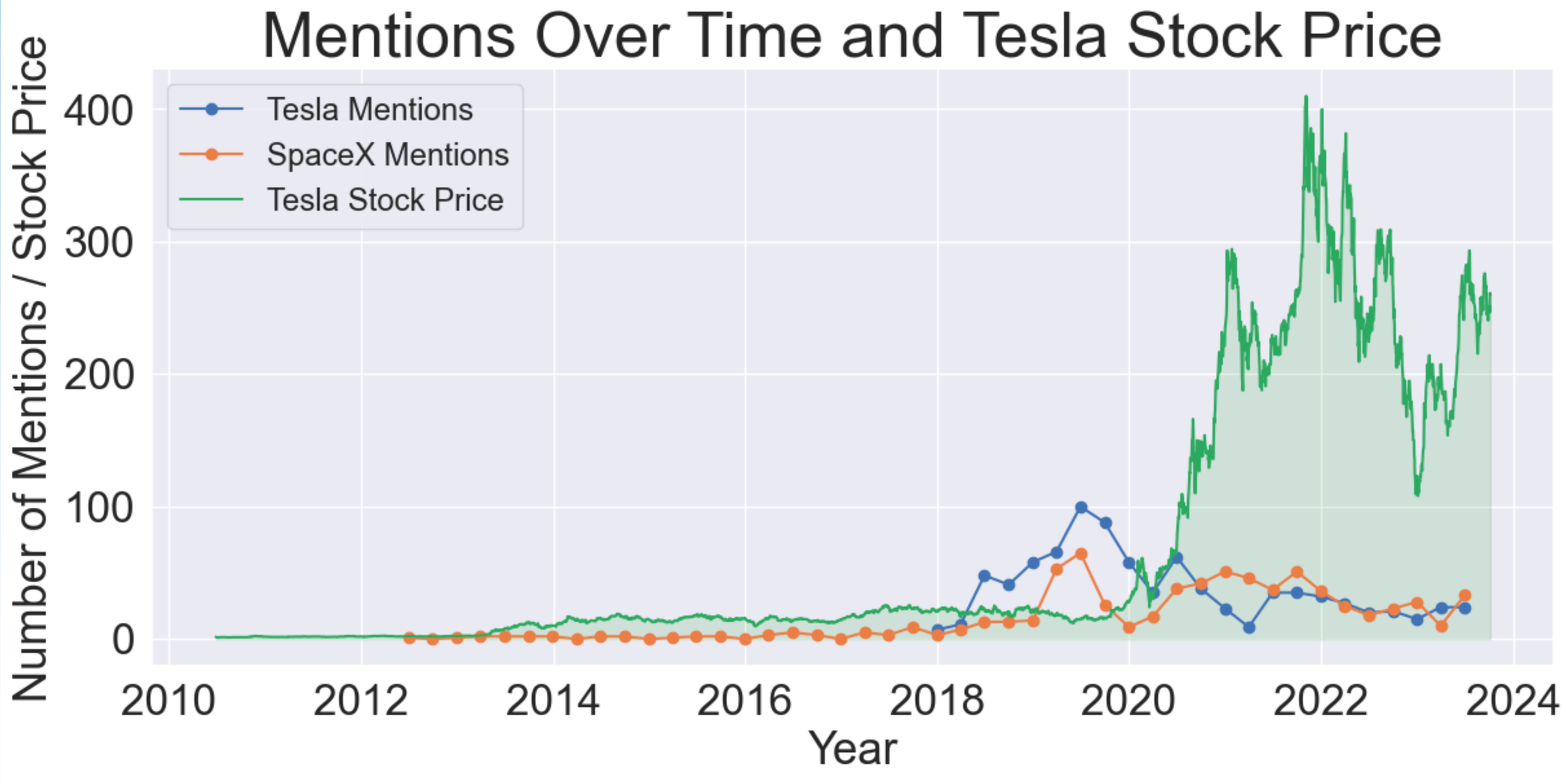
# TOPICS 2022/04/14 - NOW
Elon buys Twitter

SLIDE:
1 - 2 - 3

## @stillgray's Twitter Feed

# TESLA STOCK PRICE PREDICTIONS

SLIDE: 1



## Learnings

**NLP**
which was
very fun!

## Highlights

Working hard!
Very focused!

## Looking forward

Implementing
my results on
predicting Tesla
Stock Price!

# **THANKS** FOR THESE **EPIC** 10 WEEKS