

Reddit-based Analysis of Comparative Information Sentiment Test

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PROJECT OVERVIEW

- Input two keywords
- Input number of Reddit posts to analyze
- Get analysis

```
import praw
import re
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
from collections import Counter
from prettytable import PrettyTable

# Reddit API credentials (Replace with your own)
reddit = praw.Reddit(client_id="9XMFqbSv3t9R0eaIwdYJjg",
                     client_secret="U1N76Gdwn-MeWI318YvQSANN",
                     user_agent="script:negafied:v1.0 (by /u/negafied)")

# Initialize VADER sentiment analyzer
vader = SentimentIntensityAnalyzer()

def clean_text(text):
    """Clean text by removing links and special characters"""
    return re.sub("https?:\/\/\S+", "", text).split()

def analyze_sentiment(text):
    """Analyze sentiment using VADER"""
    cleaned_text = clean_text(text)
    sentiment = vader.polarity_scores(cleaned_text)

    # Determine overall sentiment
    if sentiment['compound'] > 0.05:
        sentiment = 'positive'
    elif sentiment['compound'] < -0.05:
        sentiment = 'negative'
    else:
        sentiment = 'neutral'
```

```
2 import re
3 from vaderSentiment.vaderSentiment import SentimentIn
4 from collections import Counter
5 from prettytable import PrettyTable
6
```

```
# Sentiment Table
sentiment_table = PrettyTable()
sentiment_table.field_names = ["Sentiment", f"{keywo
for sentiment in set(sentiments1.keys()) | set(sent
    sentiment_table.add_row([
        sentiment.capitalize(),
        sentiments1.get(sentiment, 0),
        sentiments2.get(sentiment, 0)
    ])
print(sentiment_table)
```

```
# Sentiment Percentage Table
percentages1 = calculate_percentages(sentimer
percentages2 = calculate_percentages(sentime
percentage_table = PrettyTable()
percentage_table.field_names = ["Sentiment"
for sentiment in set(percentages1.keys())
    percentage_table.add_row([
        sentiment.capitalize(),
        f"{percentages1.get(sentiment, 0
        f"{percentages2.get(sentiment,
    ])
print("\nSentiment Percentages:")
```



SENTIMENT ANALYSIS - VADER

- Valence Aware Dictionary for sEntiment Reasoning
- polarity + intensity = valence score
- Incorporates slang and acronyms

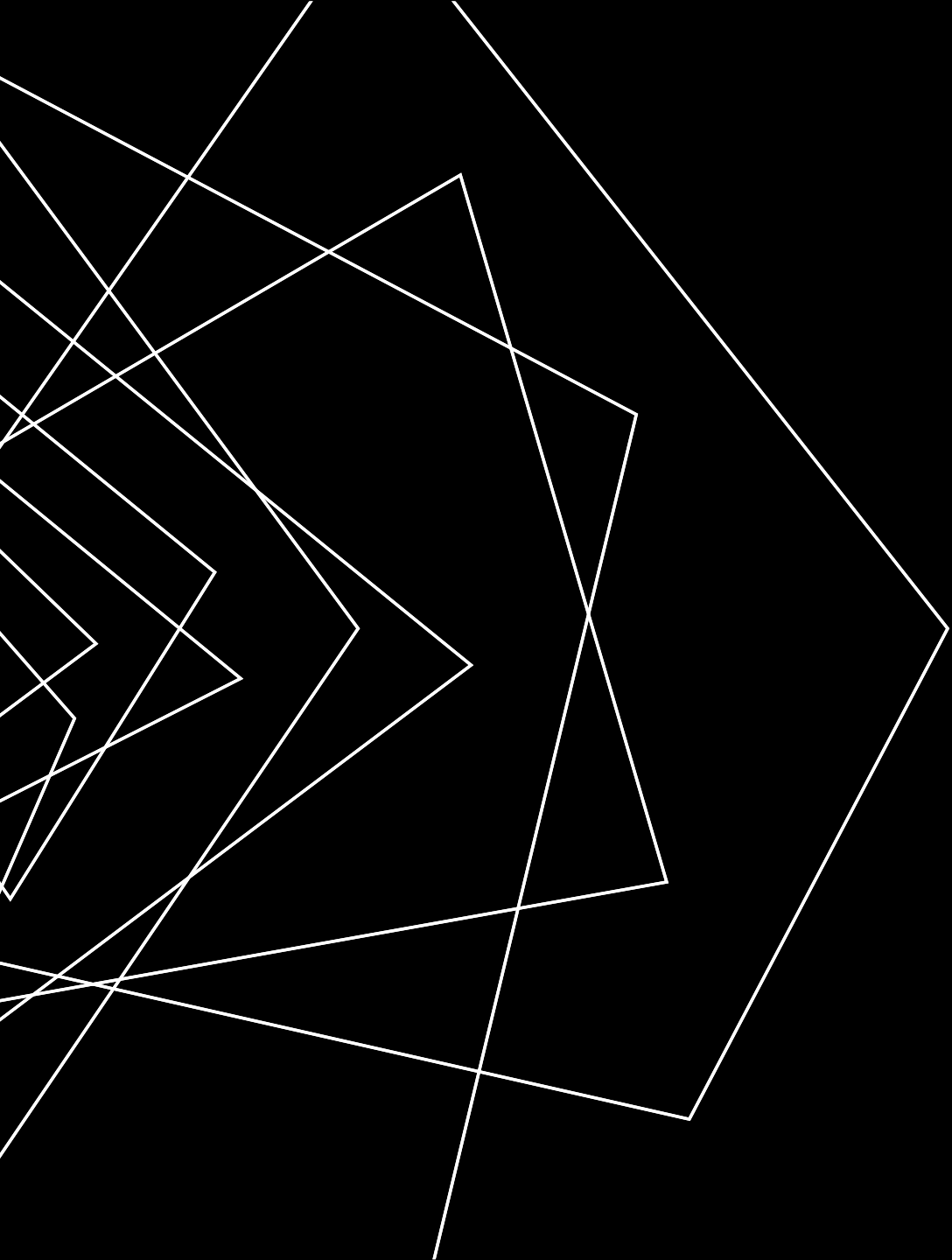
Measured by RACISM

(Reddit-based Analysis of Comparative Information Sentiment - Metrics)

- X-Score: Arbitrary weight negative and positive sentiment
 - Positive: 5
 - Negative: -8
- Grade: Based on Math 31 grading system
 - Additional S-tier: 97%+
- Reliability: Dependent on number of posts analyzed

X-score, Grade, and Reliability:

+-----+-----+-----+			
	Metric	Black	White
+-----+-----+-----+			
	X-score	30.92	-48.00
	Grade	F	F
	Reliability	High	High
+-----+-----+-----+			



THANK YOU