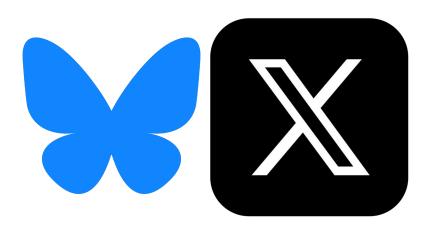
Comparative Sentiment Analysis of X (Twitter) and Bluesky



Townsend Southard Pantano Aaron Moradi

AGENDA

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DATA

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EXPERIMENTAL RESULTS

08-09

ANALYSIS

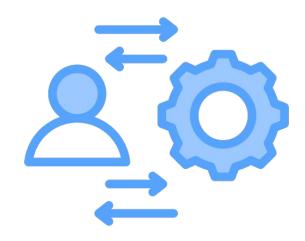
10-11

CONCLUSION



APPROACH

- Goal: Compare user sentiment on X (Twitter) and Bluesky.
- Sentiment Analysis Framework:
 - Preprocessing text (removing hashtags).
- Platforms Analyzed:
 - X (Twitter): Large, diverse user base.
 - Bluesky: Smaller, younger user base.
- Sentiment Categories:
 - Positive and Negative



DATA

- Timeframe: January 2023, July-October 2024
- Data Volume:
 - X: 6 million tweets
 - Bluesky: 5 million posts
- Data Preprocessing:
 - Cleaned for noise (removed URLs)
 - Language filtering: Only posts in English

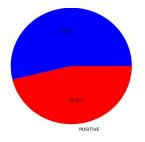


LIVE DEMO

EXPERIMENTAL RESULTS

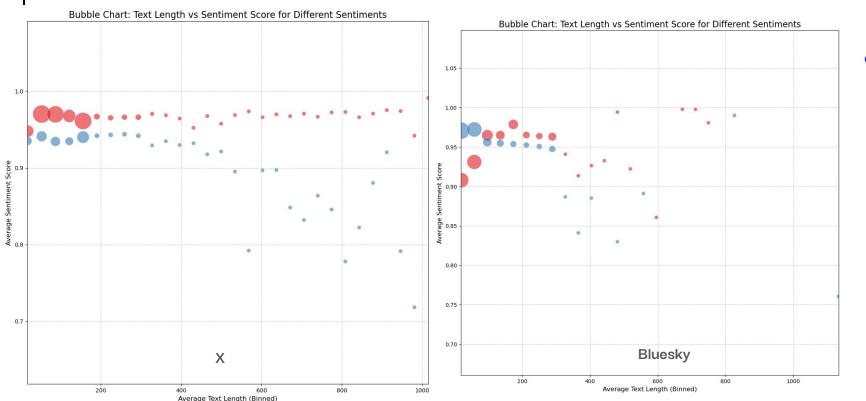
- Sentiment Distributions:
 - X: 27.41% Positive, 72.59% Negative
 - Bluesky: 46.22% Positive, 53.80% Negative
- Notable Observations:
 - X: Significantly higher percentage of negative content
 - Bluesky: Shows a more balanced sentiment distribution





Bluesky

EXPERIMENTAL RESULTS



- Max Bubble Size (1000)
- Positive Sentiment
- Negative Sentiment

ANALYSIS

- Key Differences:
 - X: Negative sentiment dominates, possibly reflecting its larger and more diverse user base, which can amplify polarizing opinions
 - Bluesky: Sentiment is more balanced, suggesting a smaller, more engaged, or like-minded community

ANALYSIS

- Preprocessing Text:
 - Allowed the analysis to focus on meaningful terms that carry sentiment
- Sentiment Dynamics:
 - The disparity in sentiment between platforms could result from differences in user interaction styles or the types of topics discussed

CONCLUSION

- Summary of Findings:
 - X: Reflecting a polarized and often contentious user base.
 - Bluesky: Sentiment is more balanced, with a higher proportion of positivity
- Future Work:
 - Explore how specific topics (politics, entertainment) influence sentiment differently on each platform

CONCLUSION

- Implications:

- X: High negativity could impact user experience, but it also highlights its role as a space for diverse and polarizing conversations
- Bluesky: A more positive sentiment may appeal to users seeking less confrontational discussions

THANK YOU!

