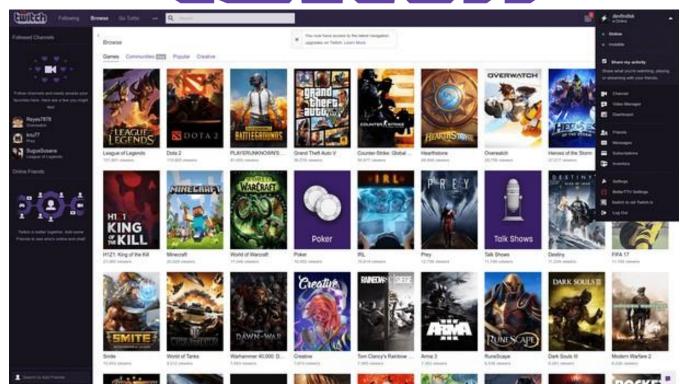
Capstone Presentation

Analysis by Derek Steffan

Automated Twitch Highlights

"Analysis" by Derek Steffan



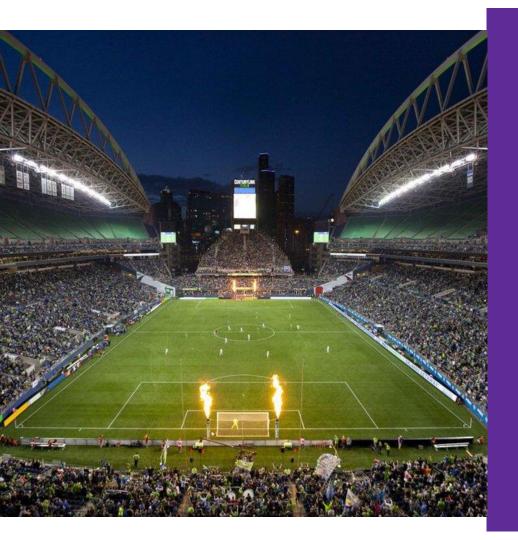


How can busy people keep up with their favorite streamers?

I assume no liability for...

- Feelings hurt
- Sensibilities offended
- Braincells lost

...while reading Twitch chat



Actual picture of Twitch chat

The content of Twitch chat is highly correlated to what is happening in the broadcast.

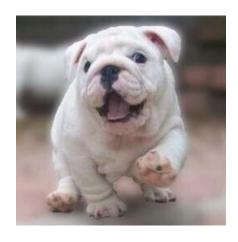


- 0:17 Revva1: pog
- 0:17 wayden11: POGGERS
- 0:18 Bowsette_IRL: POG
- 0:18 onerdlyaccurate: POGGES
- 0:18 raubhenxd: omg
- 0:18 HoundLuver: POG
- 0:18 natsdogi: WTF
- 0:18 jordan420: 🔊 🐊 🔊
- 0:18 BeeRumble: WTFFFFFFFFF
- 0:18 DemonChilly: OMG
- 0:18 Delire: Pog
- 0:18 🚳 🛦 Koulla; RIP PepeHands

Twitch chat "cheering"

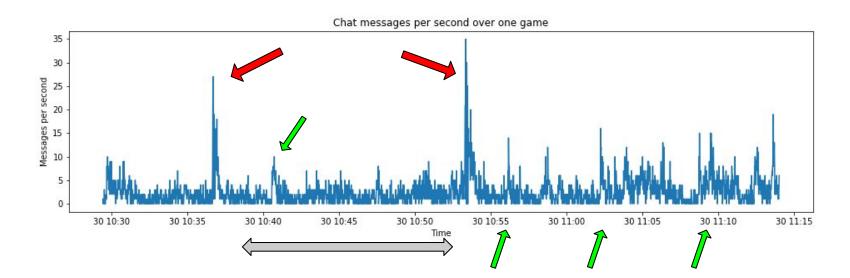


Twitch chat "laughing"



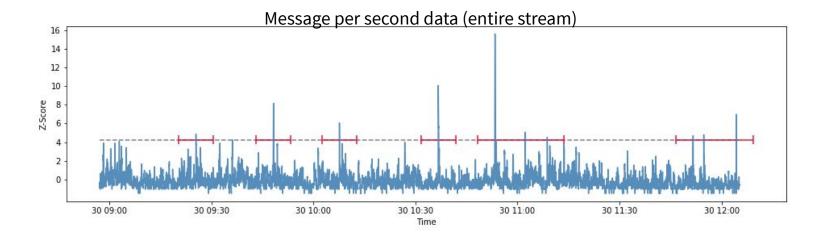
4,000 to 8,000 avg. viewers ~3 chat messages per second

Admiral Bulldog



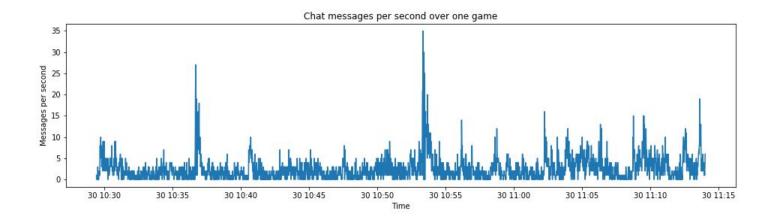
Anomalies in chat activity are caused by highlights in gameplay.

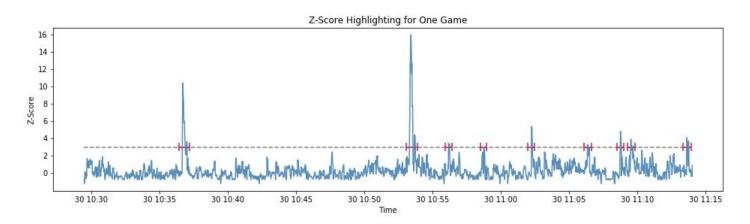
The content of
Twitch chat is
highly correlated to
what is happening
in the broadcast.



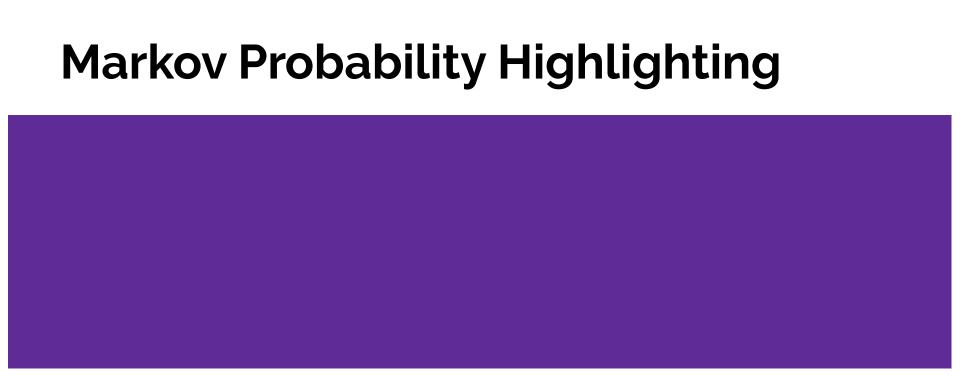
Intuition

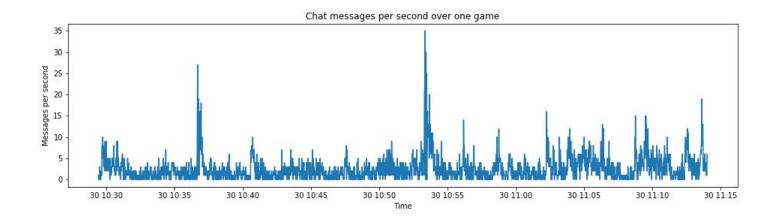
Z-Score Highlighting

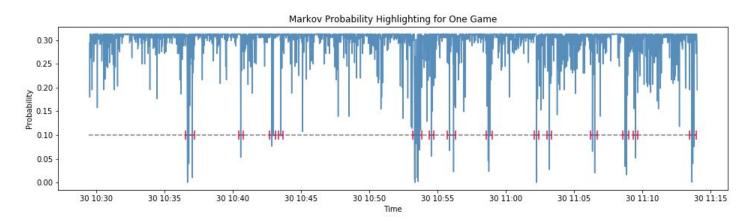




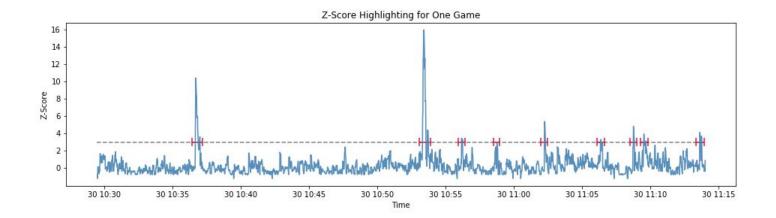
Z-Score Threshold

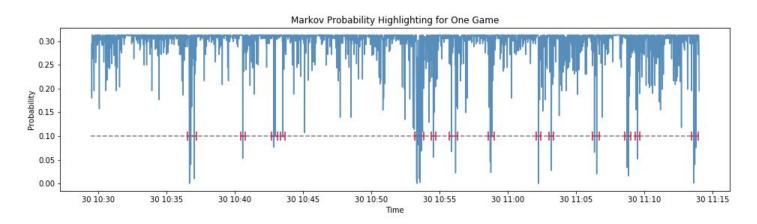






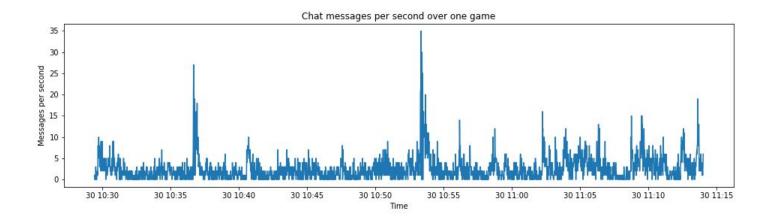
Markov Chain Probability

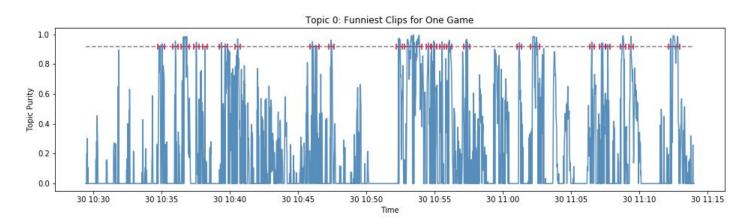




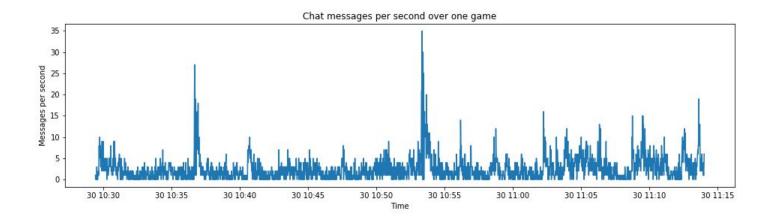
Z-Score vs. Markov Chain

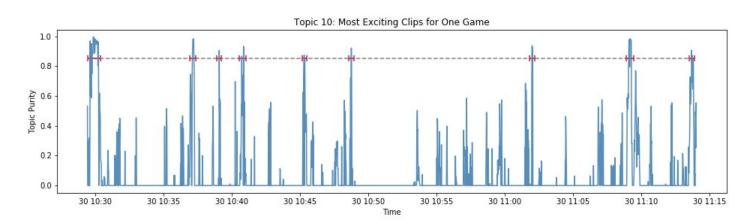
Topic Modeling





Topic Modeling





Topic Modeling

Next Steps

Key Takeaways...

- Streams are long
- Chat reacts to the stream content
- Anomalies are caused by highlights

Capstone Presentation

Analysis by Derek Steffan

Thank you.



