twitch stream chat modeling

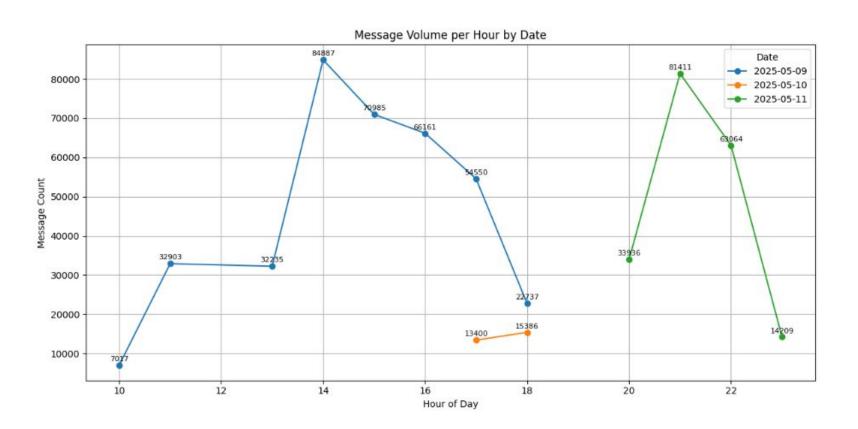
Jia Jia Shameek

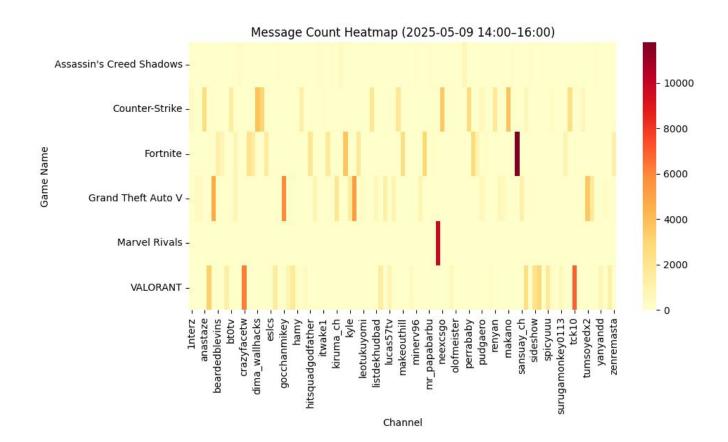
Data Project Process

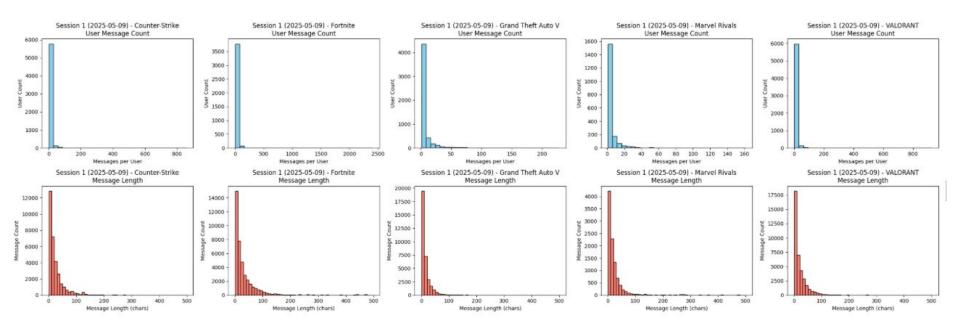


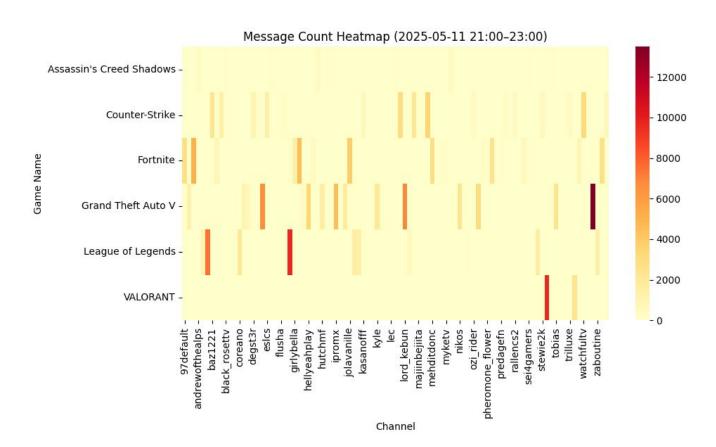


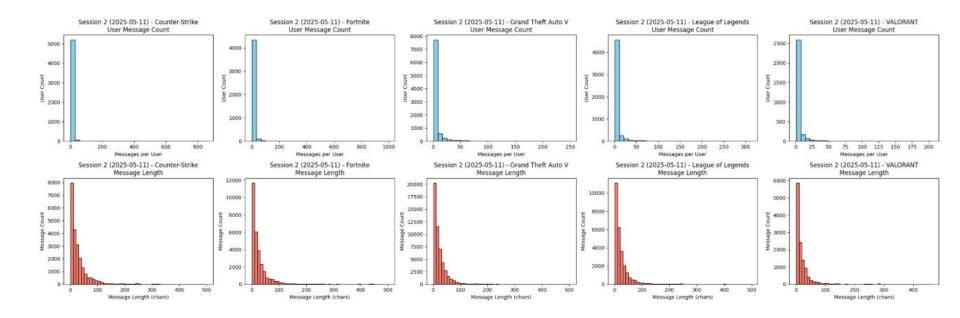
EDA





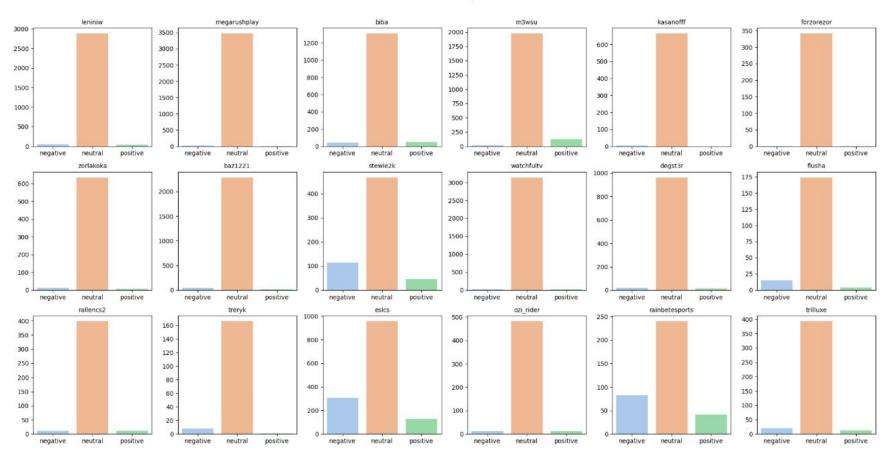






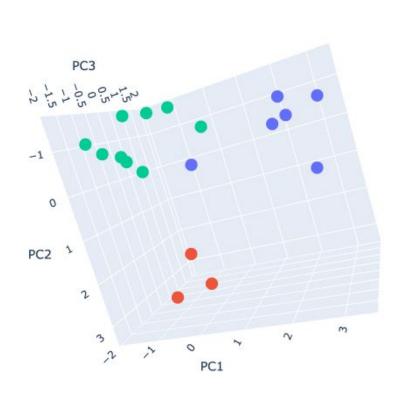
Text Modeling: Counter-Strike in Session2

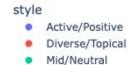
Sentiment Distribution per Channel



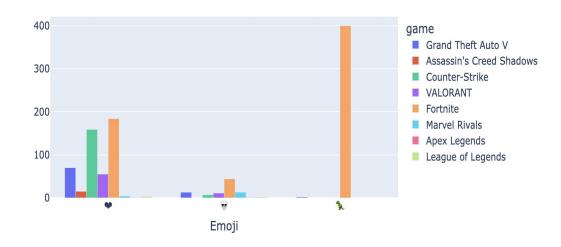
Text Clustering: Counter-Strike in Session2

Channel Style Clustering (3D PCA)





Emoji Preferences Across Games



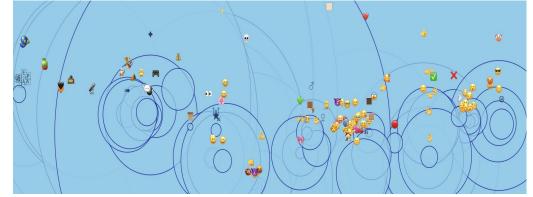
Before diving into semantic embeddings, let's first look at how emoji usage varies by game

t-SNE of Emoji Embeddings



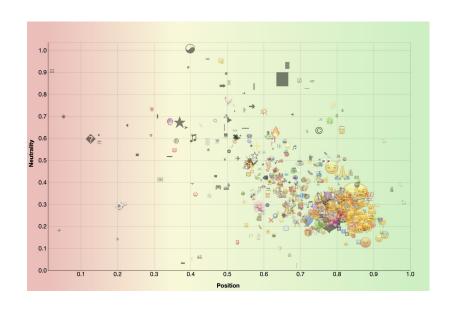
Some dense regions correspond to tactical game callouts, while others are driven by reactions, memes or inside jokes

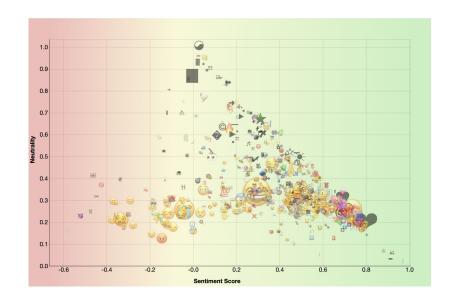
Even without labels, structure emerges, showing how shared language, repetition, and cultural references organise chat semantically



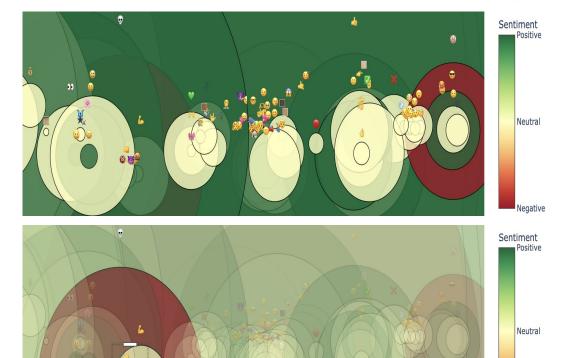
We move from words to emojis: Emoji Sentiment Score

Using a combination of external sentiment rankings (like Emoji Sentiment Ranking from Škrlj et al.) and custom mappings





Emoji Co-occurrence Embeddings



Emojis that appear together often are embedded closer using Node2Vec.

We then color them using a sentiment gradient red for negative, green for positive, gray for neutral.

What emerges is a kind of emotional map of chat