

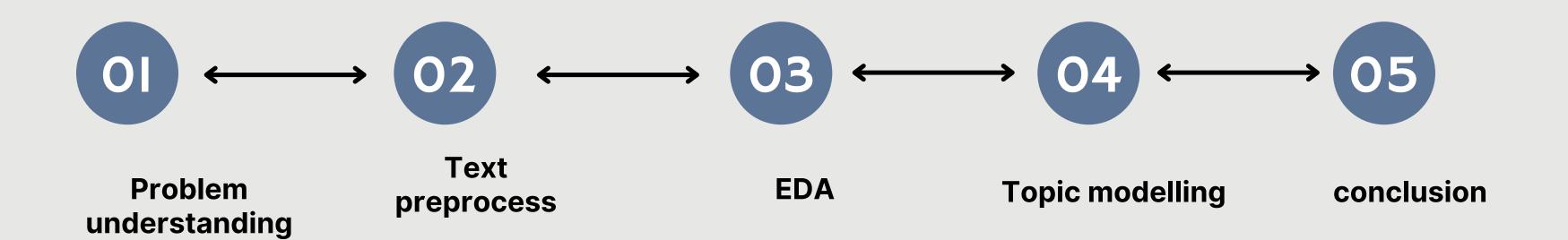
### Prepared by:

Abdultawwar Safarji Najla Bin-Melha Khalid Alrashed



Have you ever asked yourself that through your use of reddit you know the behavior of users?

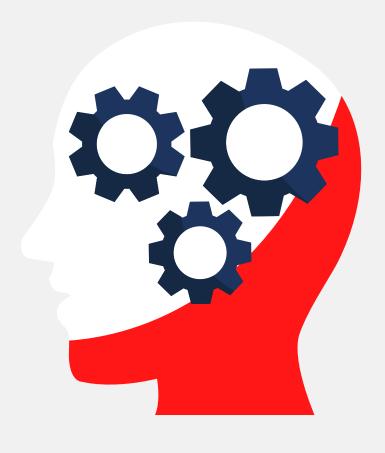
# Methodology



## Problem Understanding

#### Why Riddet Toping Modeling?

- To organize, understand and summarize large collections of textual information.
- Make it easy for the Reddit community to use unsupervised topic modeling and advance in technology as people discuss in text format.



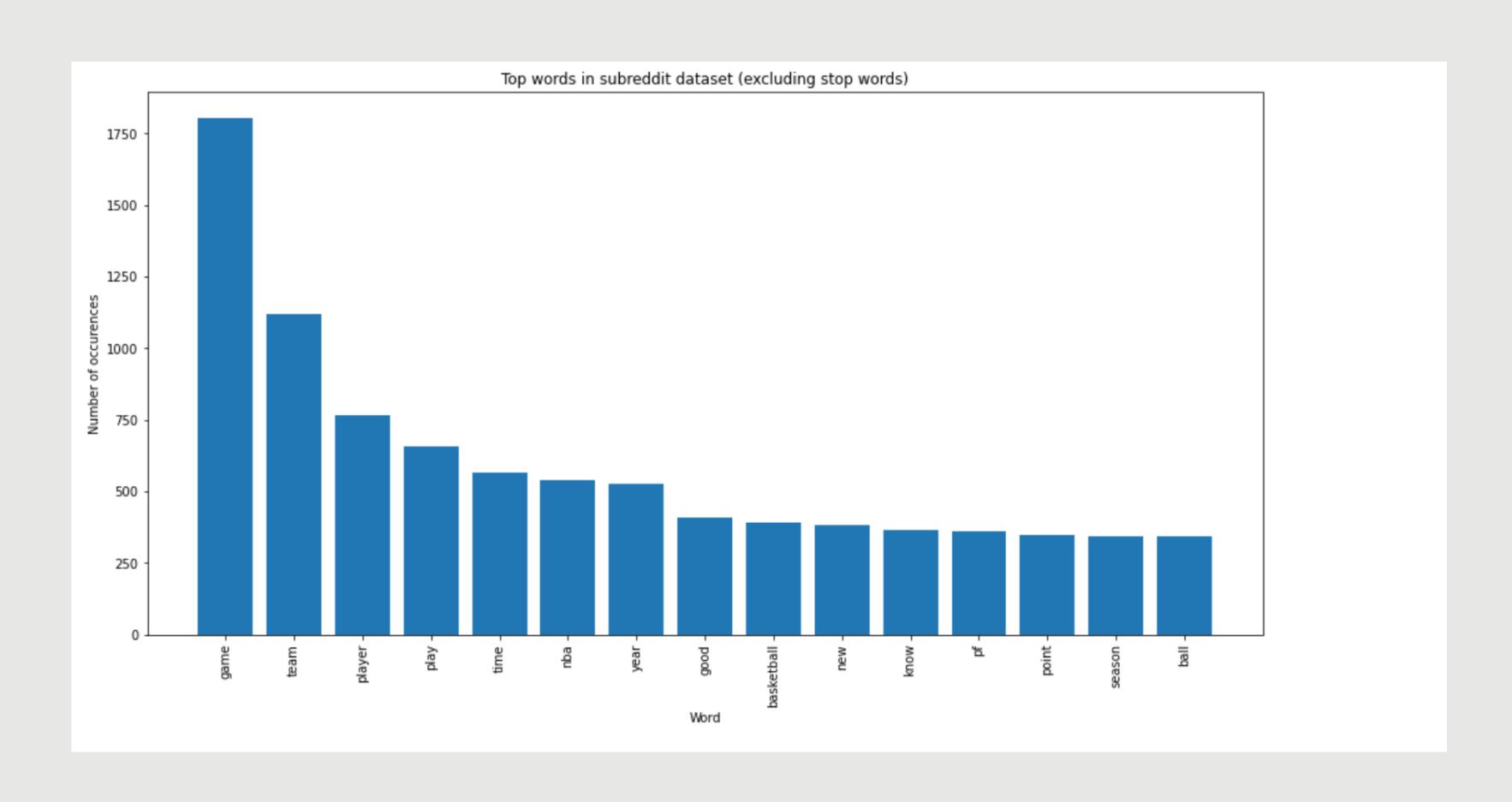
## Text preprocess

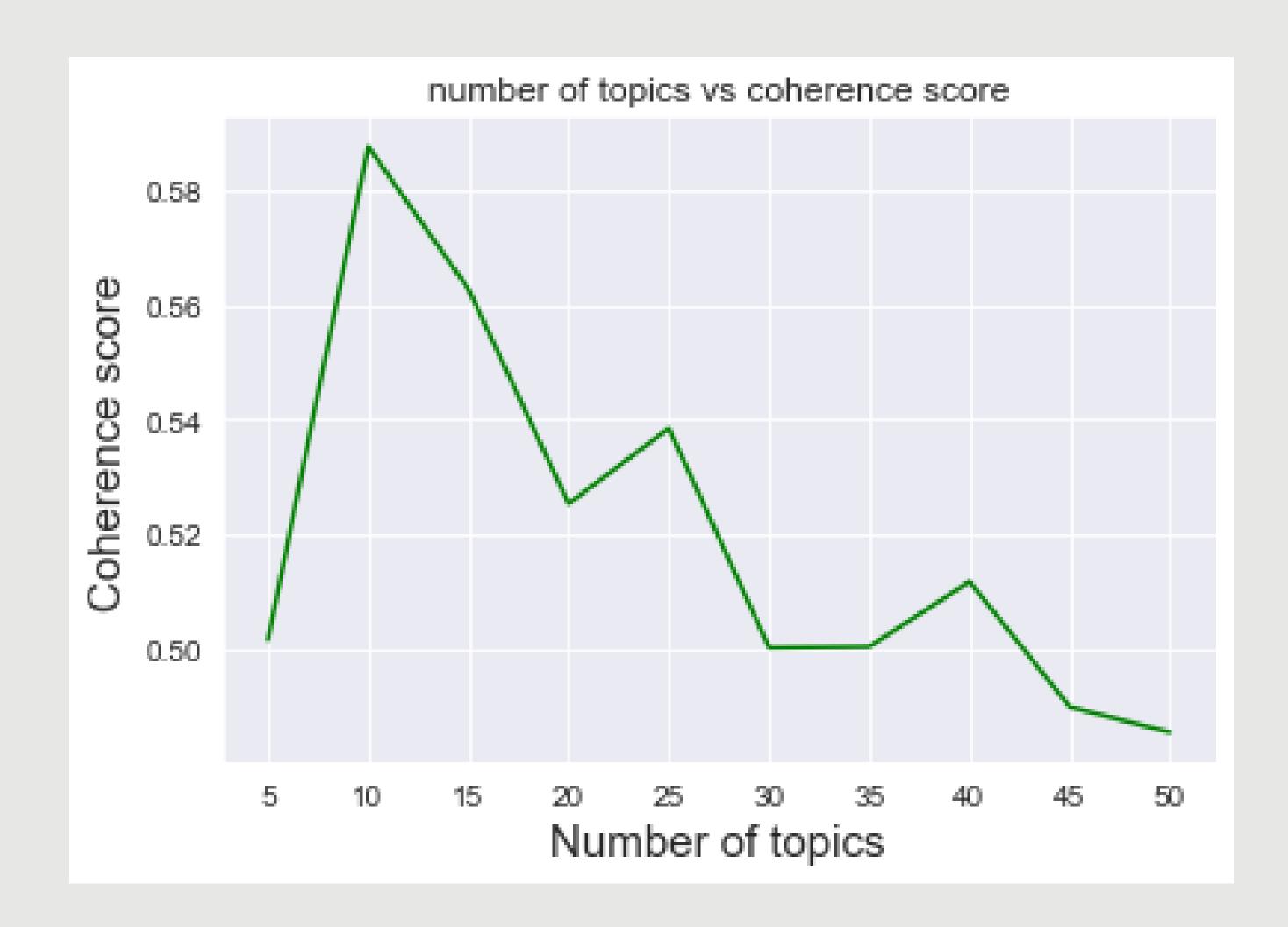
- URL links
- Numbers&punctuation(etc..)
- Tokenization

- Stop words
- lemmatization

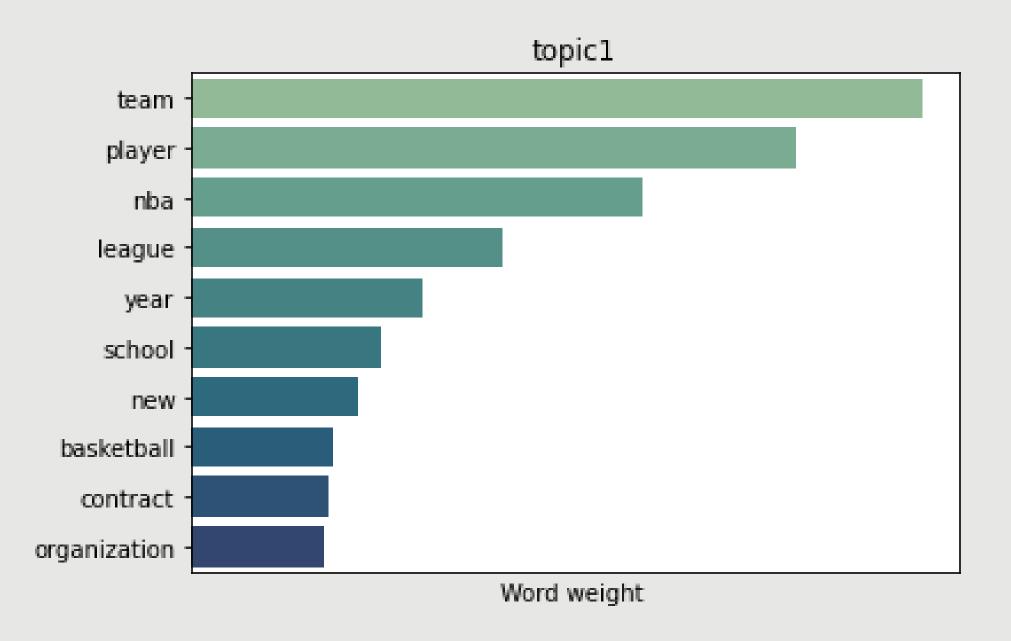


## **Exploratory Data Analysis**



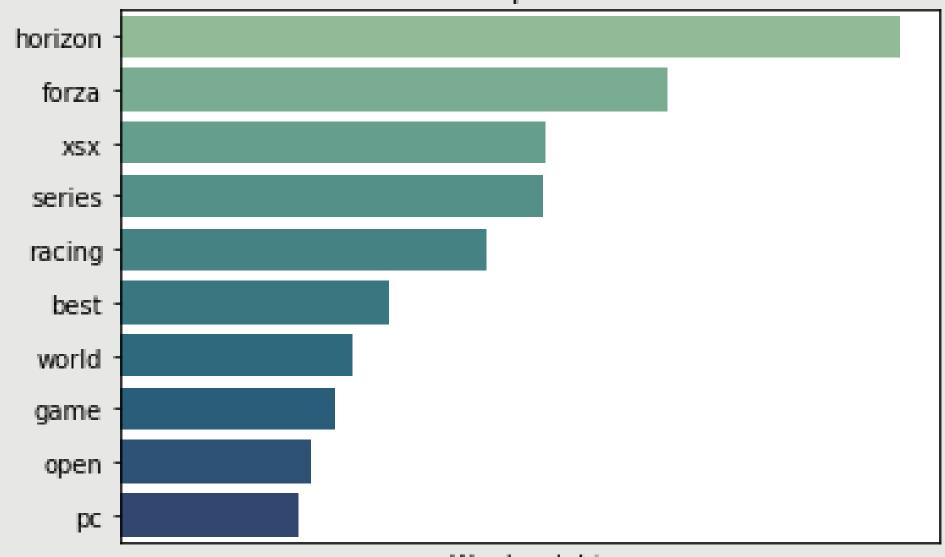


# Results



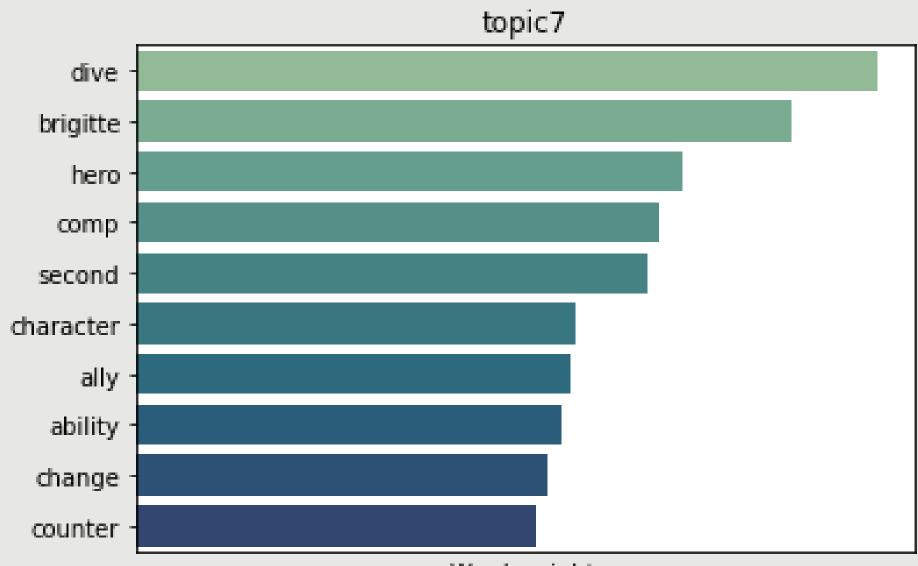


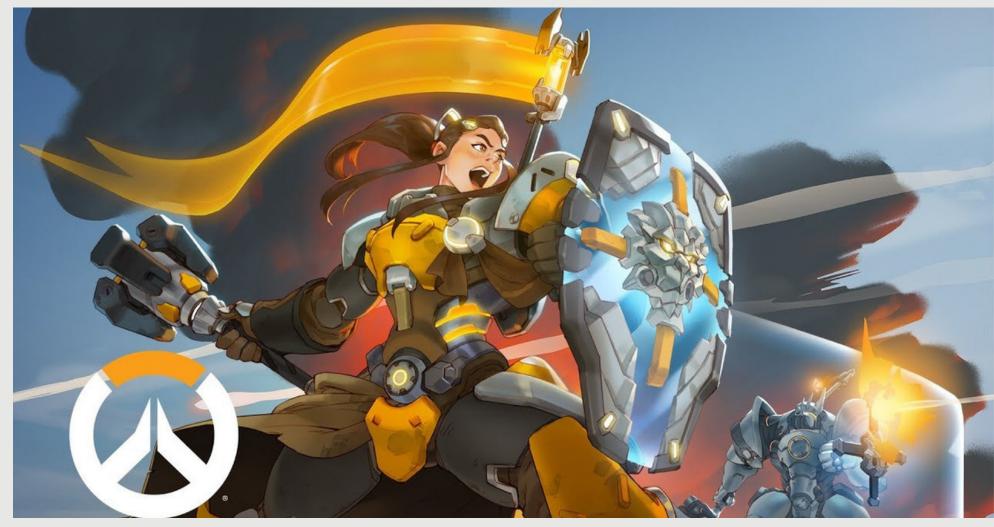




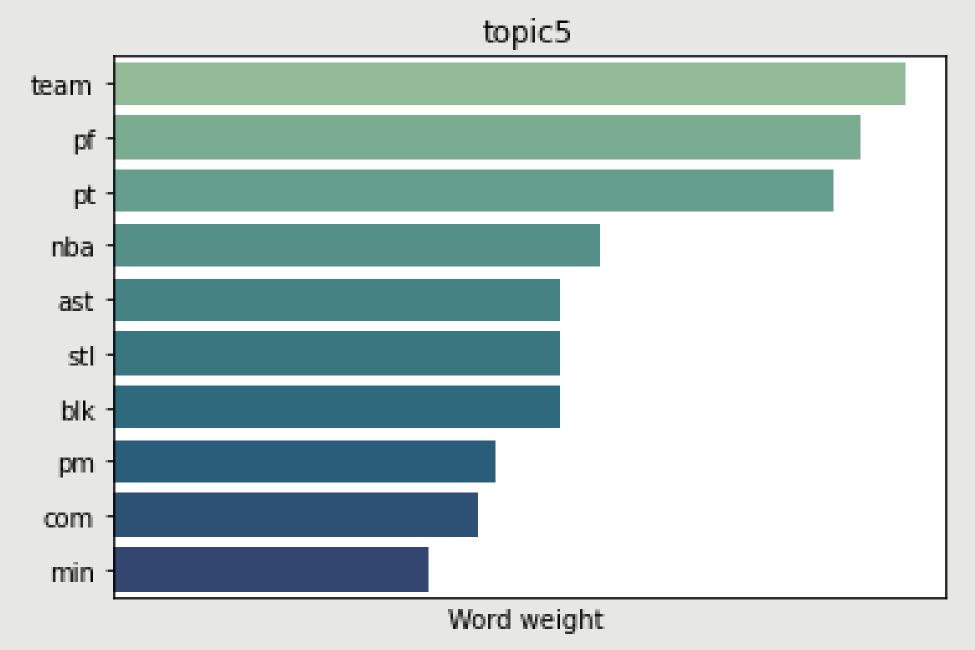


Word weight





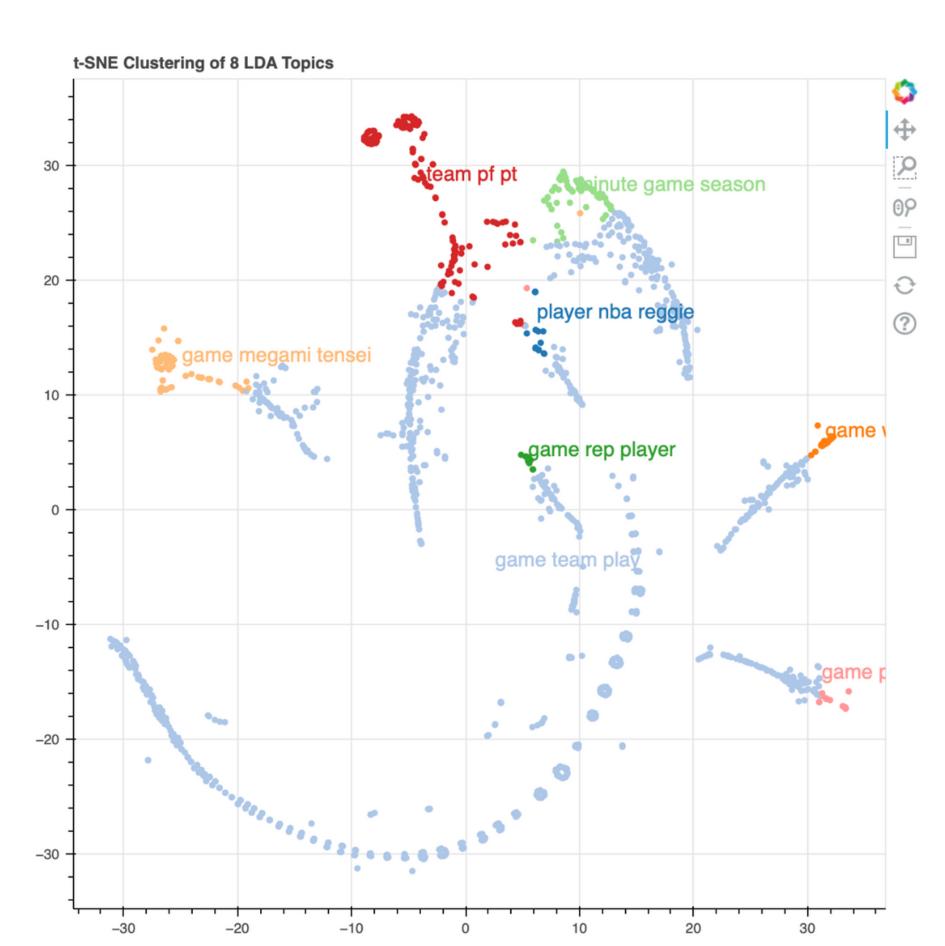
Word weight

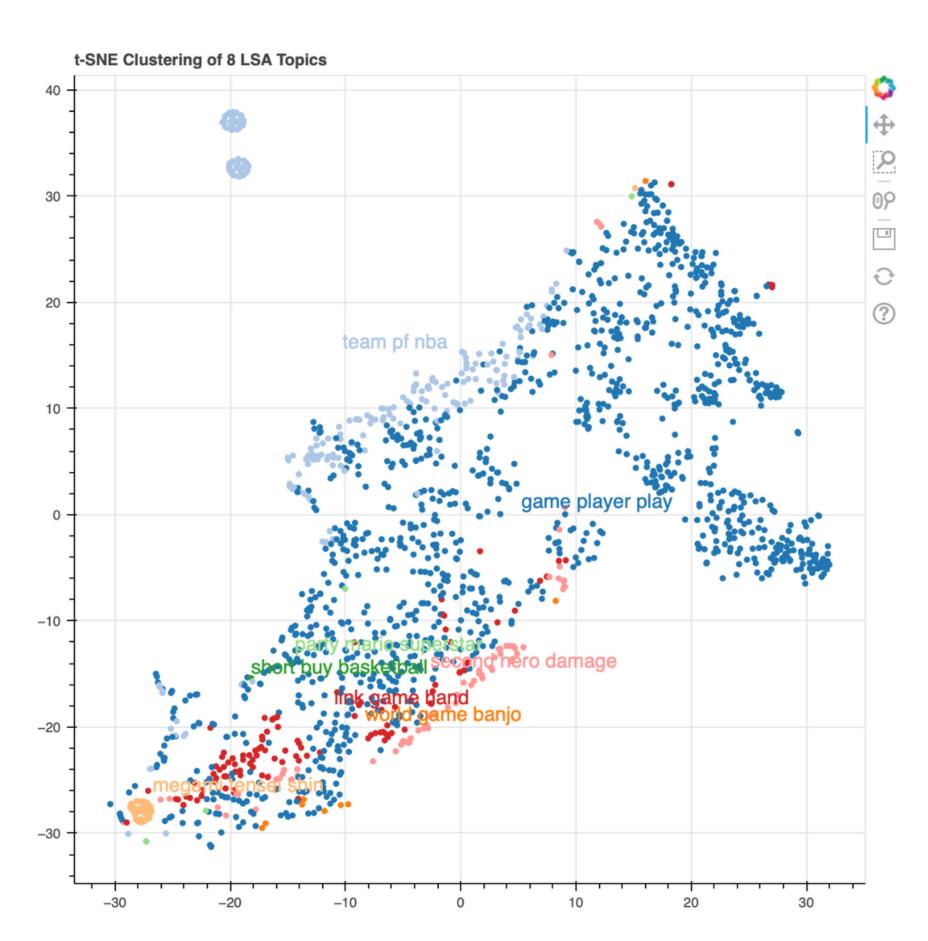


ORB	DRB	REB	AST	STL	BLK	ТО	PF
0	2	2	3	0	0	1	4

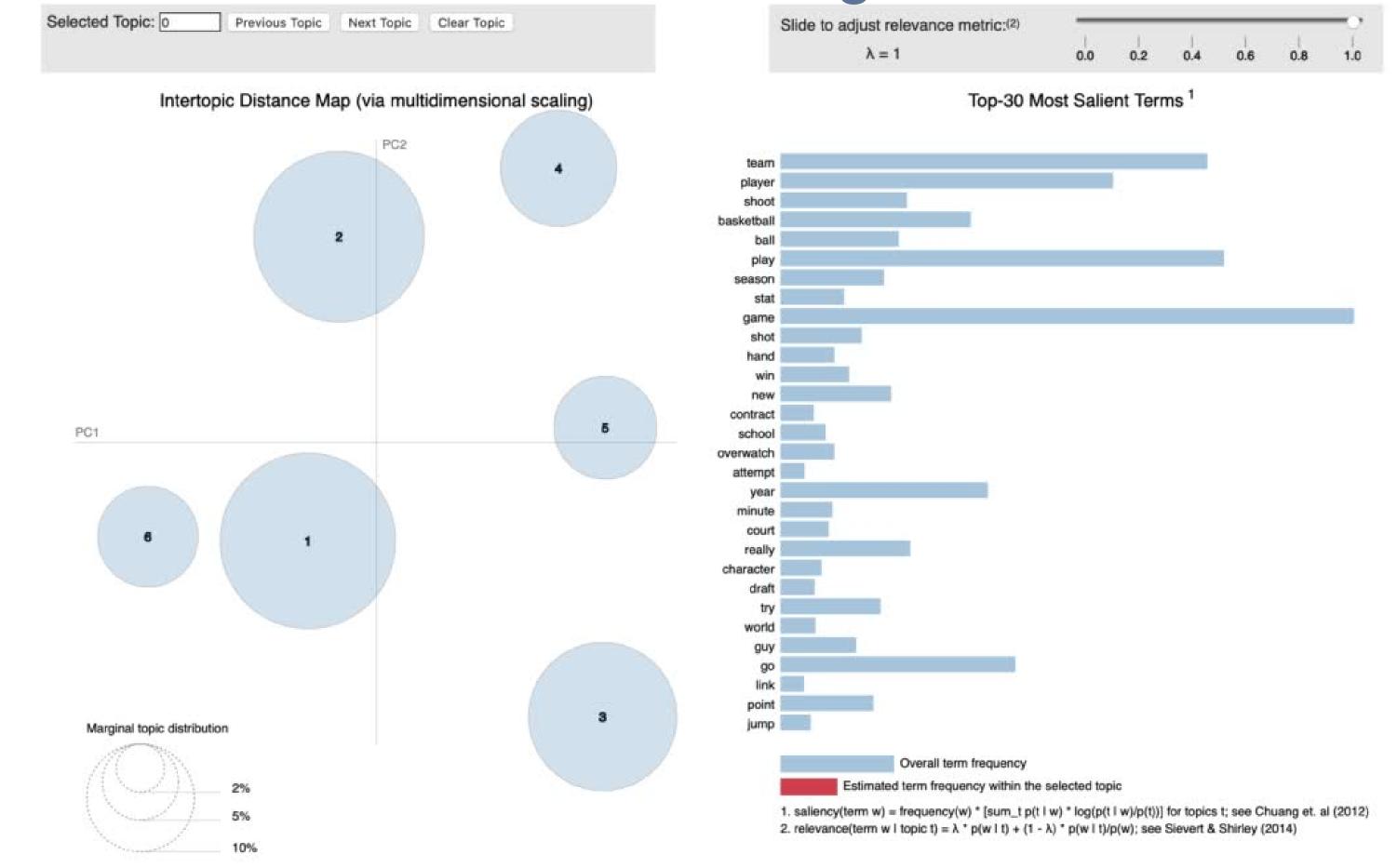


# Models Testing



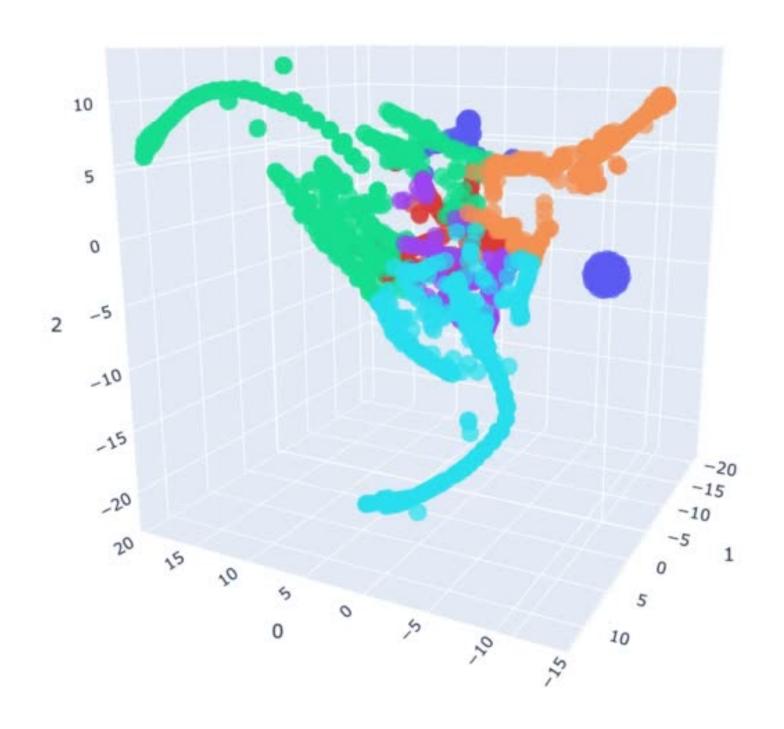


LDA Tunning



### LDA 3D

#### 3d TSNE Plot for Topic Model

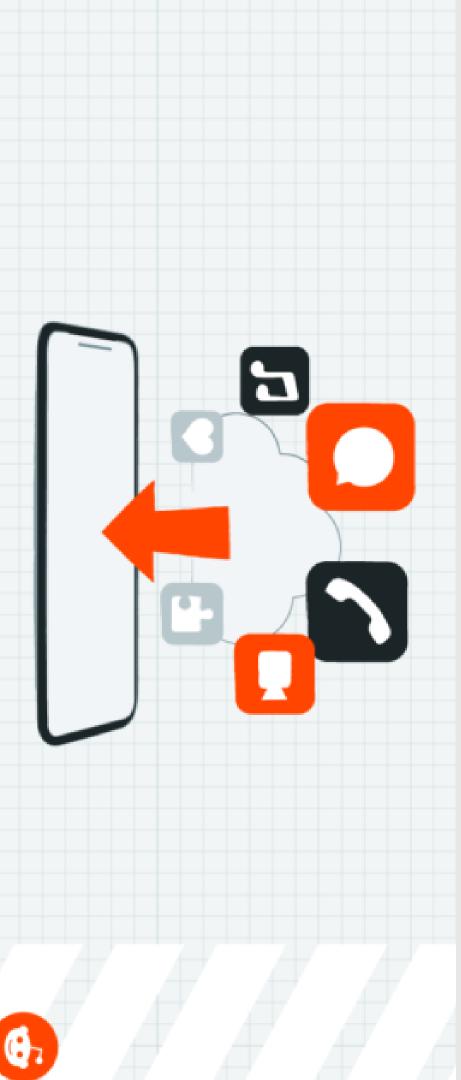


- Dominant\_Topic=Topic 0
- Dominant\_Topic=Topic 1
- Dominant\_Topic=Topic 2
- Dominant\_Topic=Topic 3
- Dominant\_Topic=Topic 4
- Dominant\_Topic=Topic 5

## Conclusion



- Reddit topics and posts need continuous cleaning and gathering.
- Need to explore more in more algorithms in topic modeling for Reddit.
- Ensure text quality modeling.



# Thank You For Listening.

Do you have any questions?