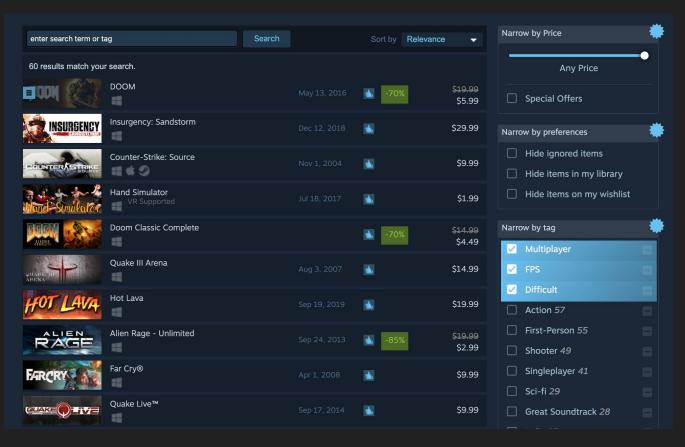




## The Steam Game Search Experience™

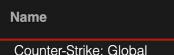


- Difficult to navigate
- Tags are basic and generic
- Results not necessarily best fits, or even multiplayer
- Need for curation

# Why FPS recommendations?

- Multiplayer FPS games constitute the highest played genre on Steam
- Specific topics within this genre deemed important by the actual players
- Want active games with
- reviews <2 years Each game has unique mechanics and community that can be extracted from reviews

# **Top Games** By Current Players



PLAYERUNKNOWN'S

ARK: Survival Evolved

MONSTER HUNTER: WORLD

**BATTLEGROUNDS** 

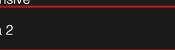
- Offensive
- Dota 2
- Siege

Destiny 2

Rust

3.





- Tom Clancy's Rainbow Six
- Team Fortress 2 67.901
- Grand Theft Auto V
  - 67,002 60,701

56,410

48.508

45,506

43,295

358,637

242,176

75.422

Last 30 Days

**Peak** 

**Players** 

More

**Hours Played** 

# Workflow and Methodology



Engine:
Topic-modeling
Recommendation
function



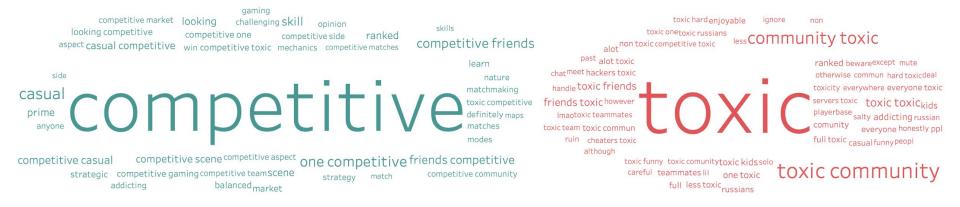
Abstraction & user input: Web app

#### "Looking for a challenging classic"

## How It Works

- Reviews are cleaned and stemmed
- Vectorized with TF-IDF
- NMF to reduce dimensions into 20 topics
- Games are averaged by their review vectors
- New search query is vectorized and finds games with closest cosine similarity







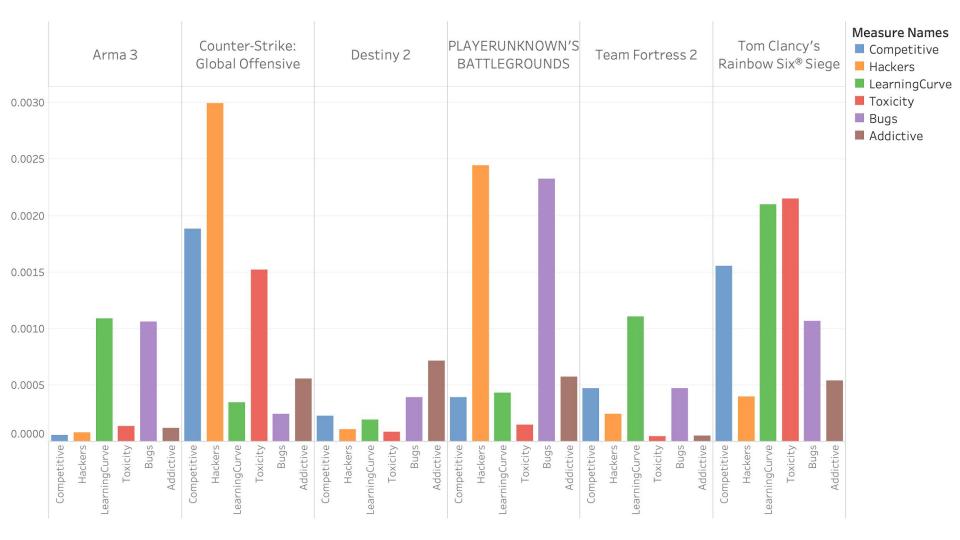
starting one hard

meet non
modes amount opinion general online group bunch
serious listening balanced growing feedback honestly
lovelycancerous less toxic developer dedicated cons
mic supportive care community downside community devs
mod community servers community pros community helpful
mod community mostlyweird problem community constantly
besides devs listen non toxic enjoyable ranked annoying care
workshop moments hilarious willing
garbage positive created skins racistruined ruins



#### \*community and developer interactions





# Recommendation App





Suggested tags: simulator, casual, community, competitive, hackers, toxic, learning curve, mmo, old classic, beautiful graphics

competitive classic

Submit

#### Counter-Strike



Store Page

Steam Charts

## Future Work

- Game reviews and recommendations for other platforms
- Show actual reviews most similar and relevant to user search terms to give more context directly on app
- Interactive tags for streamlined searching and slider for number of recommendations
- Capture more topics through modeling
- Incorporate peer group to improve predictions









### Questions?

