

Team 3's

My Anime List

Analysis and Recommender



The List of Anime



Anime Data

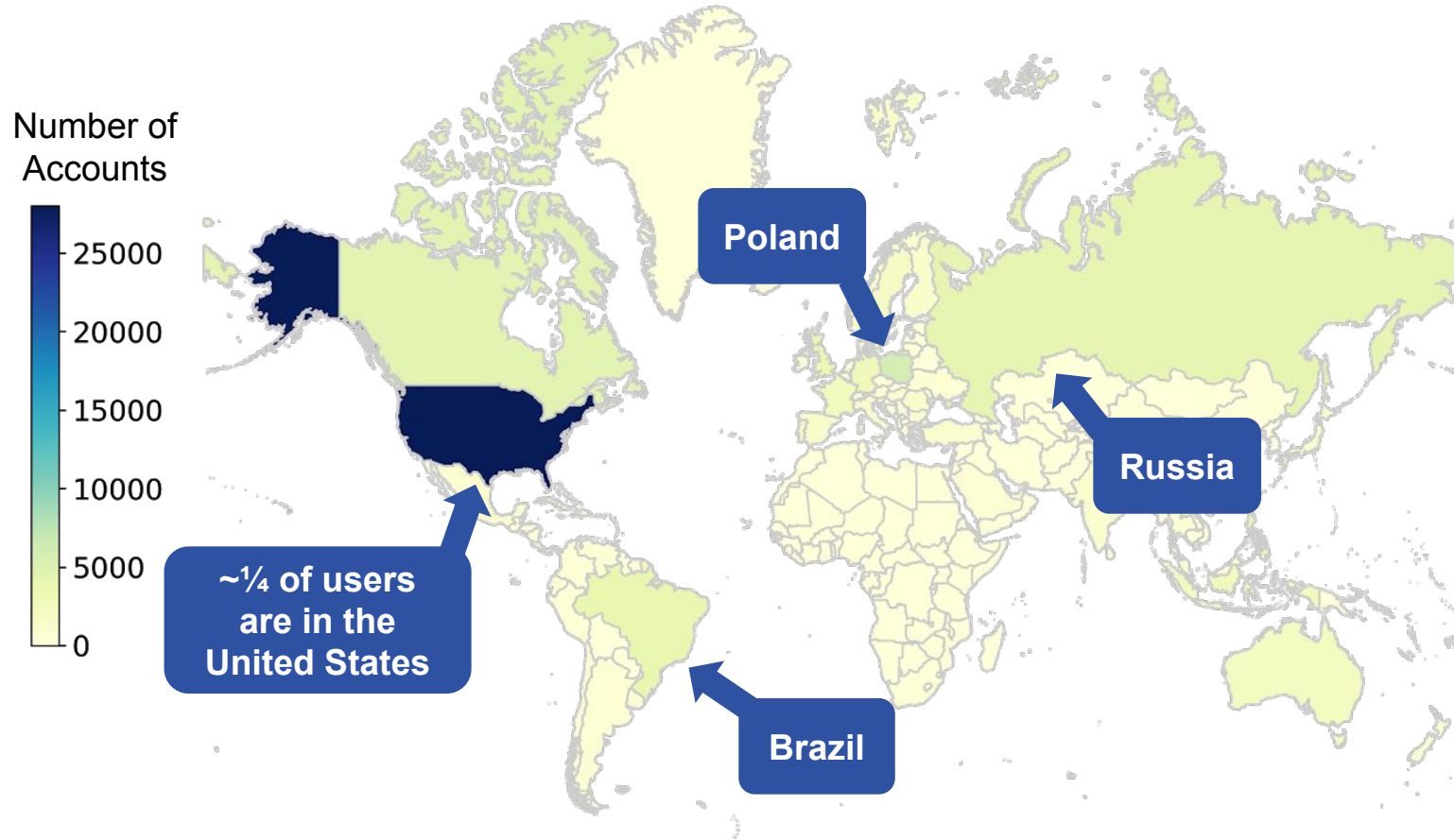
Titles	12717 listed anime.
Air Date	From 1963 to present.
Genre	Action, comedy, etc.
Studio	The animators + writers.

User Data

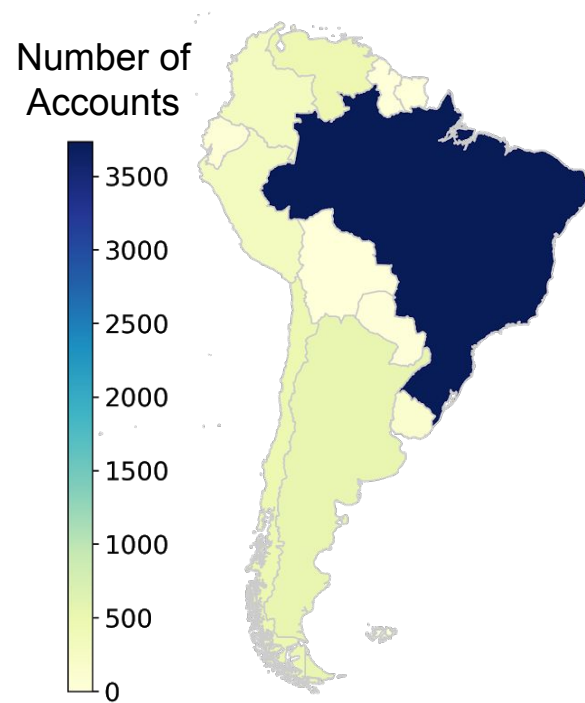
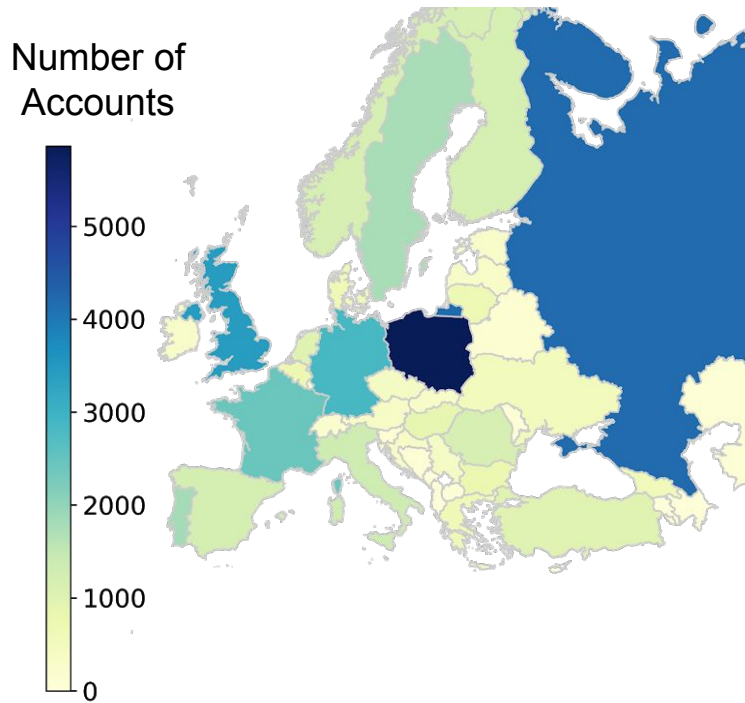


Accounts	119596 unique users
Location	from all around the world.
Watch History	They love anime.
Ratings + Reviews	With 40 million+ reviews.

With a diverse user base.

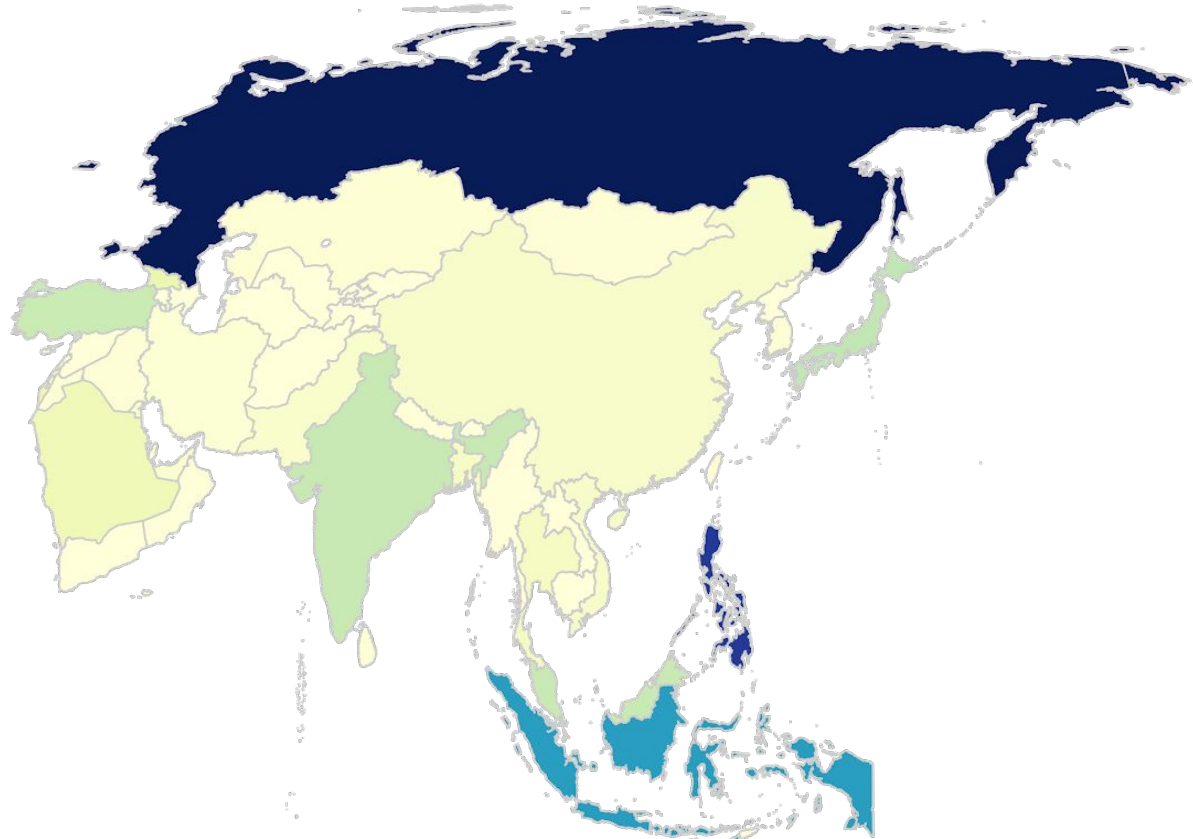
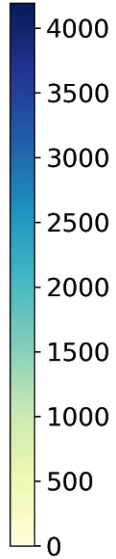


Distributed throughout the continents



Distributed throughout the continents

Number of
Accounts



Some anime filter to the top

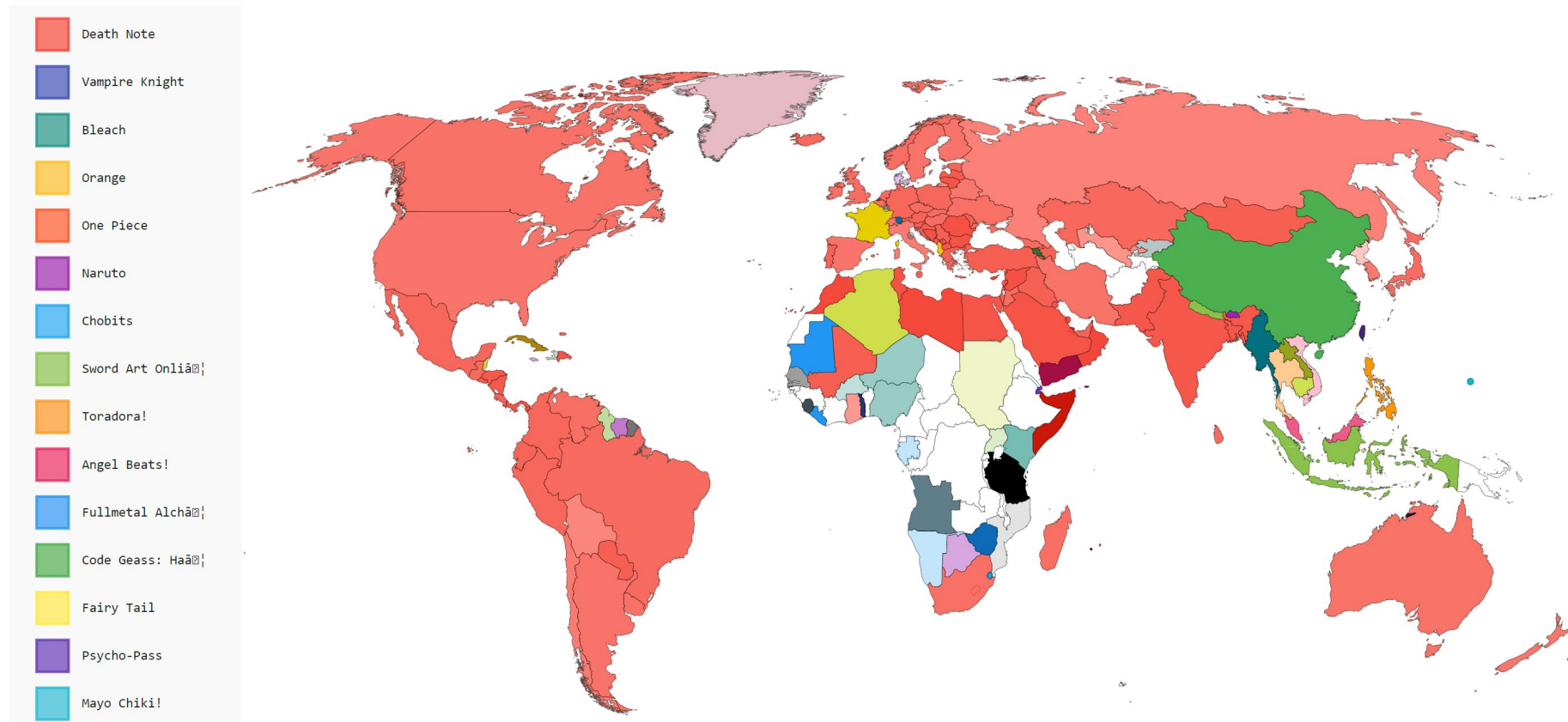
Top Anime by Popularity Updated twice a day. (How do we rank shows?)

Rank	Title	Score
1	 Death Note  TV (37 eps) Oct 2006 - Jun 2007 2,633,469 members	★ 8.63
2	 Shingeki no Kyojin  TV (25 eps) Apr 2013 - Sep 2013 2,562,118 members  Manga Store Volume 1 \$10.99 Preview	★ 8.48
3	 Fullmetal Alchemist: Brotherhood  TV (64 eps) Apr 2009 - Jul 2010 2,276,727 members  Manga Store Volume 1 \$6.99 Preview	★ 9.18
4	 Sword Art Online  TV (25 eps) Jul 2012 - Dec 2012 2,234,463 members  Manga Store Volume 1 \$7.99 Preview	★ 7.25
5	 One Punch Man  TV (12 eps) Oct 2015 - Dec 2015 2,150,264 members	★ 8.57

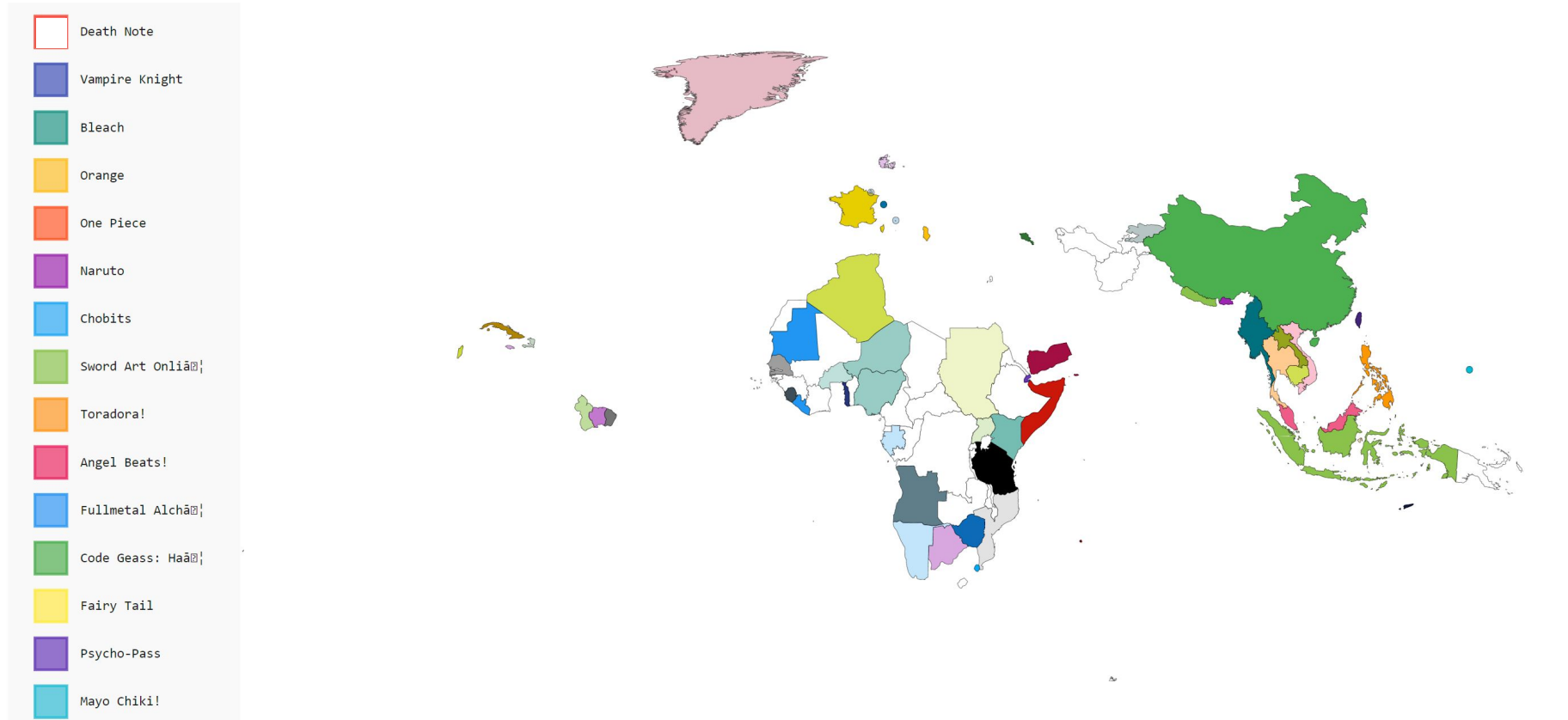
Despite the richness of MAL's data.

They seem to do remarkably little analysis.

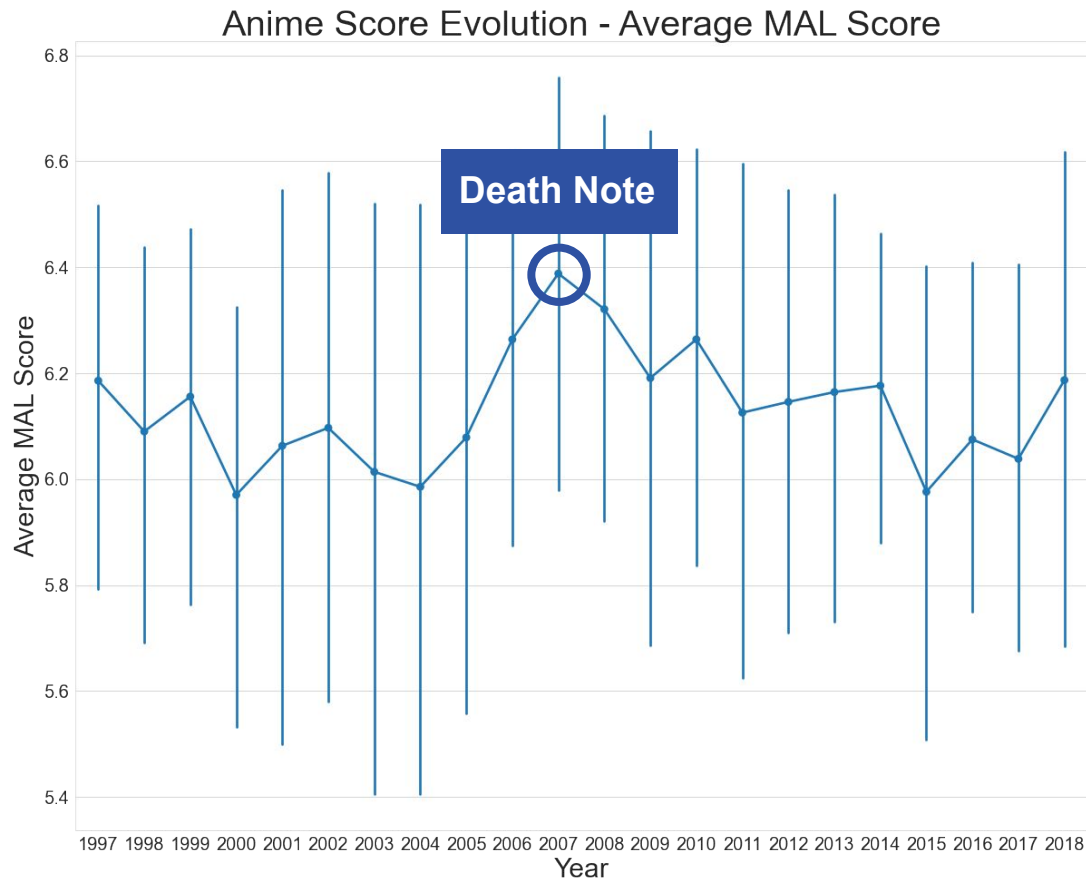
The most popular anime by country



Death Note is by far the most widespread



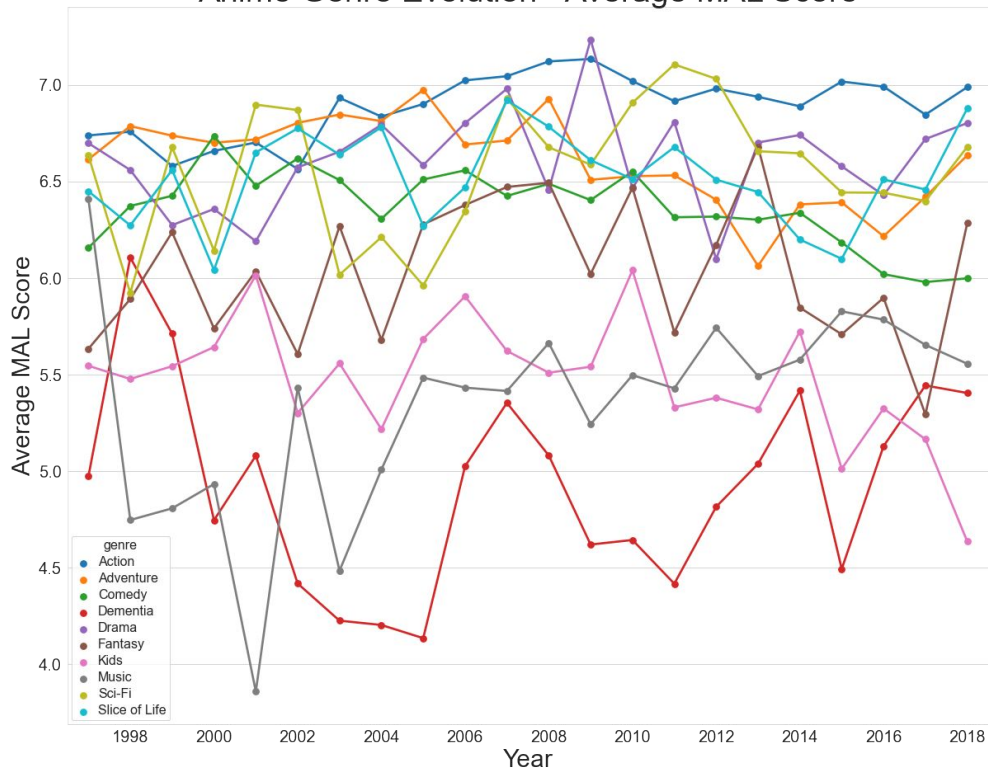
What are the characteristics of a good anime?



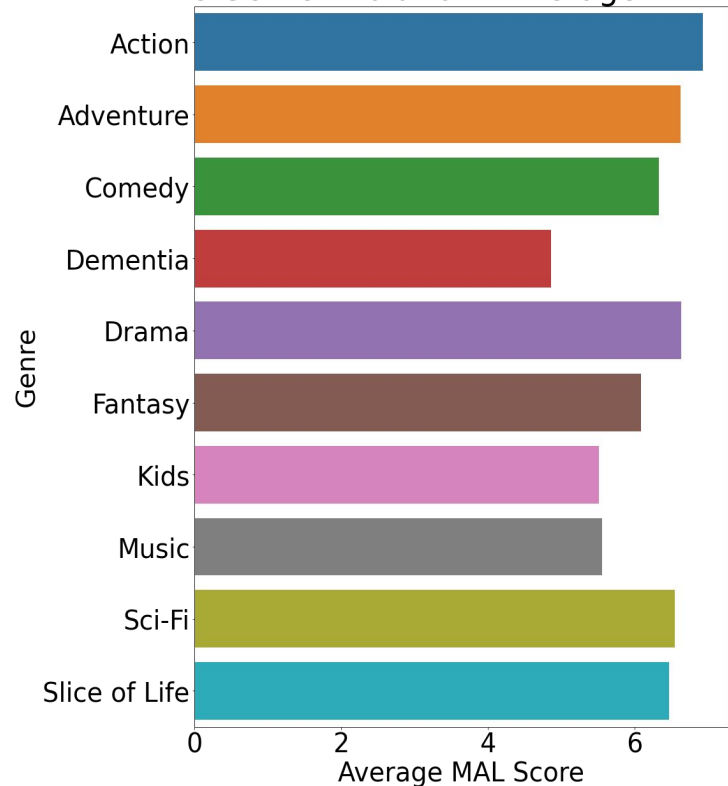
Average score
is pretty flat.

What are the characteristics of a good anime?

Anime Genre Evolution - Average MAL Score

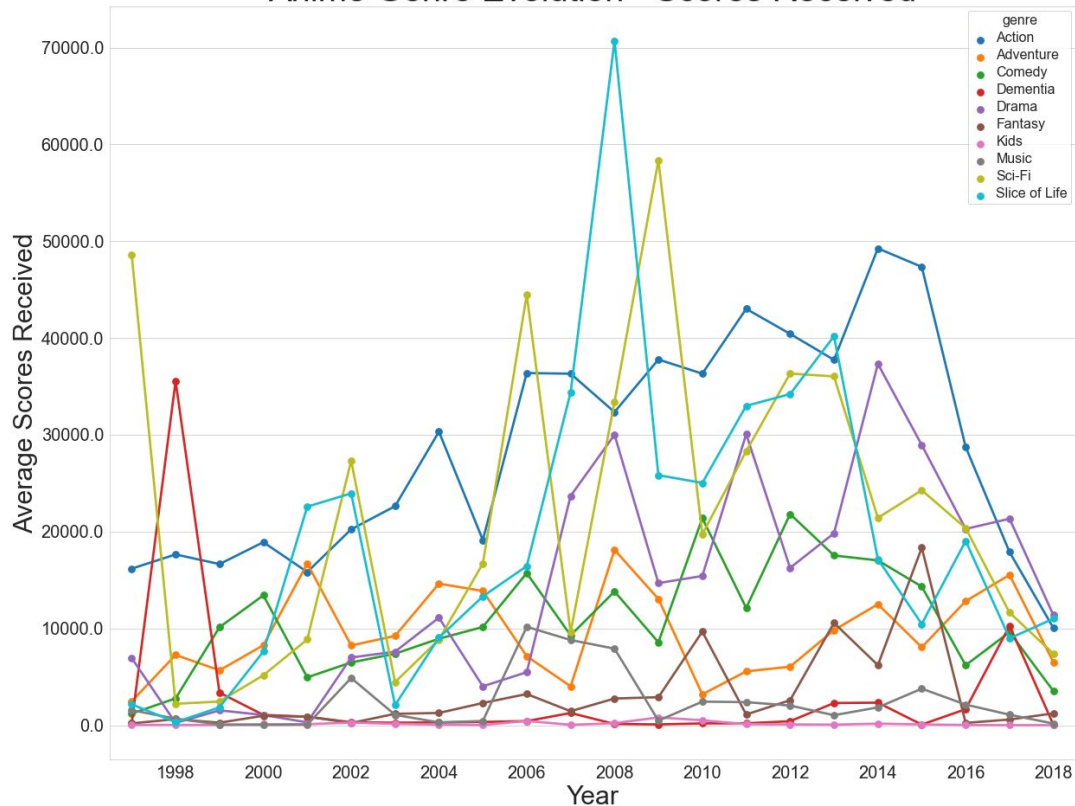


Anime Genre Evolution - Average MAL Score

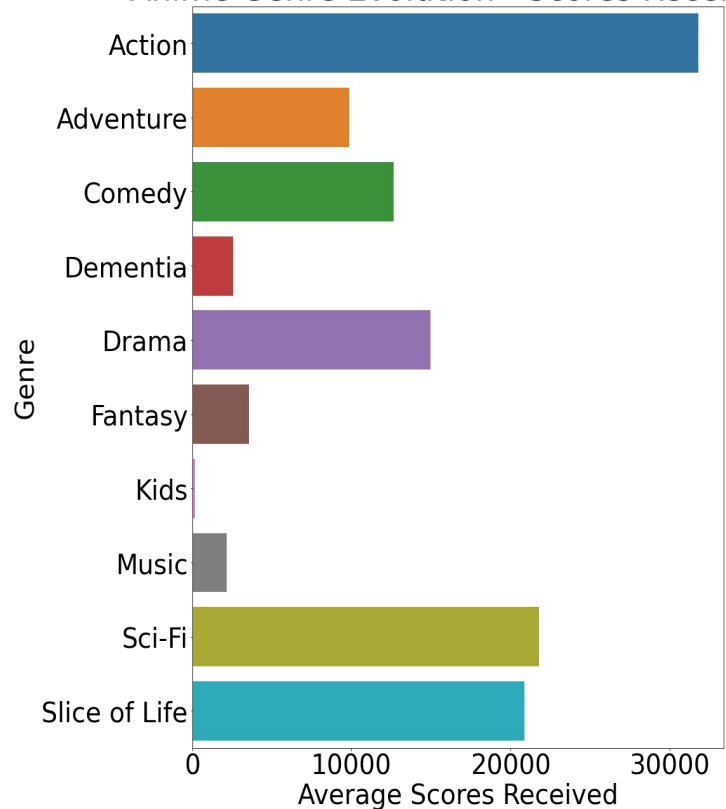


Average age of MAL users: ~28

Anime Genre Evolution - Scores Received



Anime Genre Evolution - Scores Received

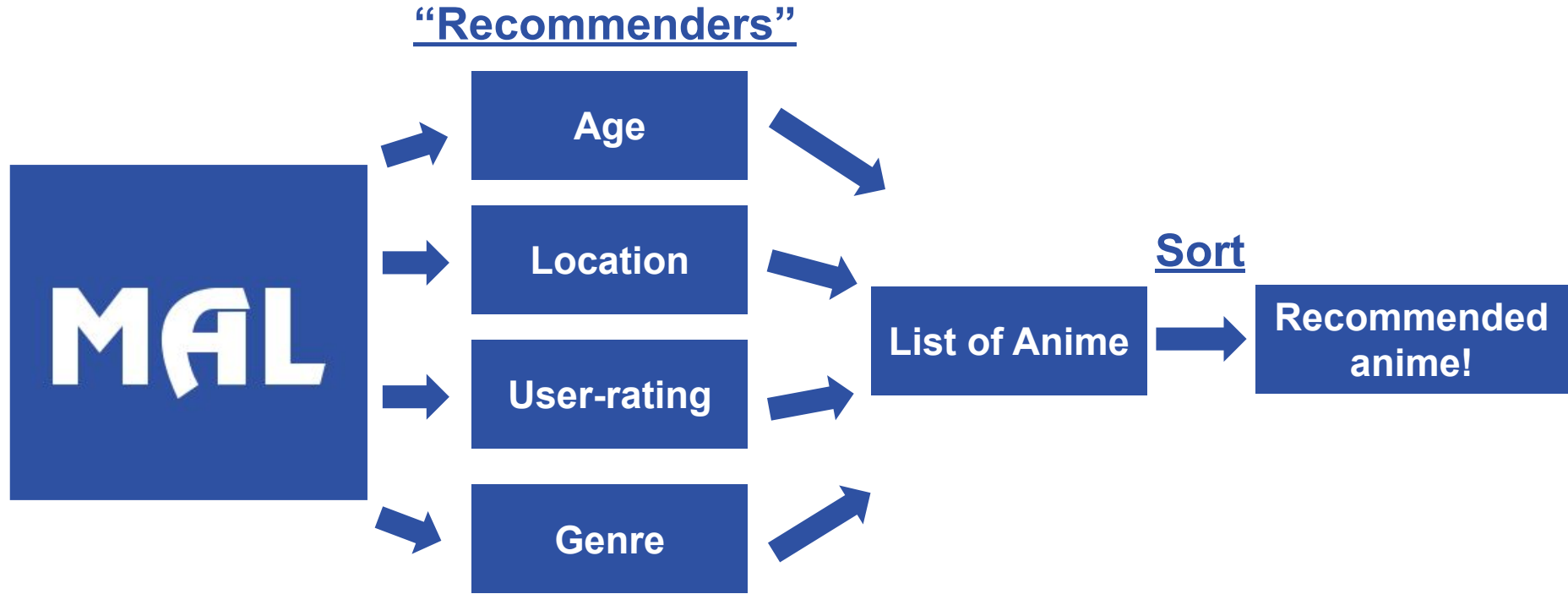


A gaping hole in MAL's functionality

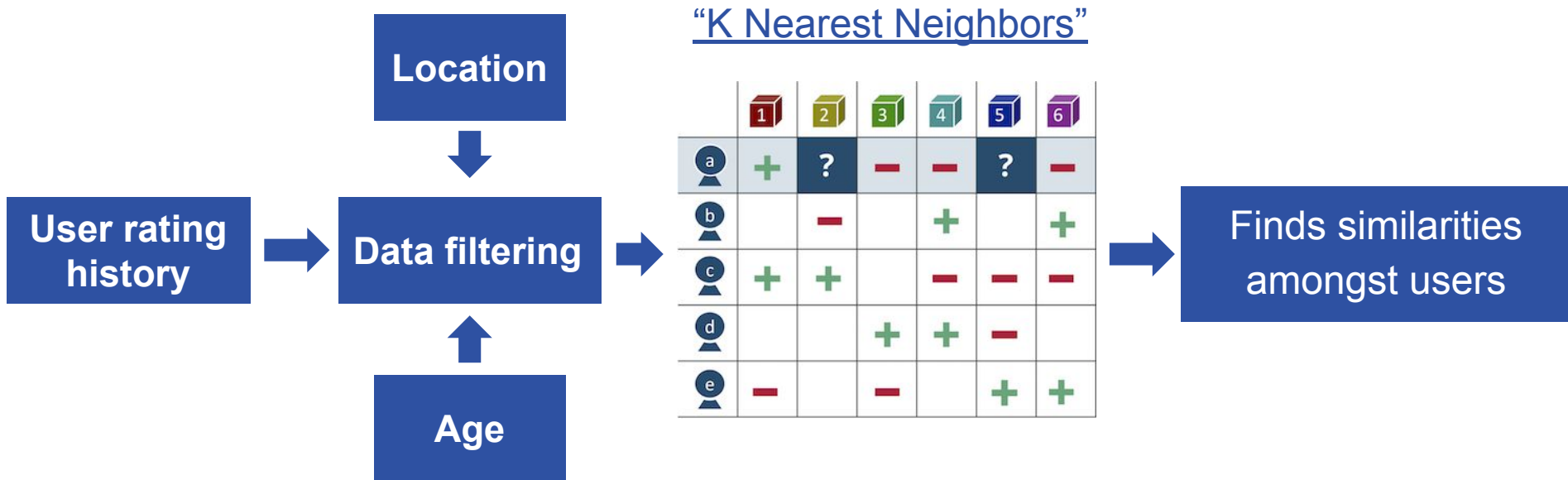


**So we
made one**

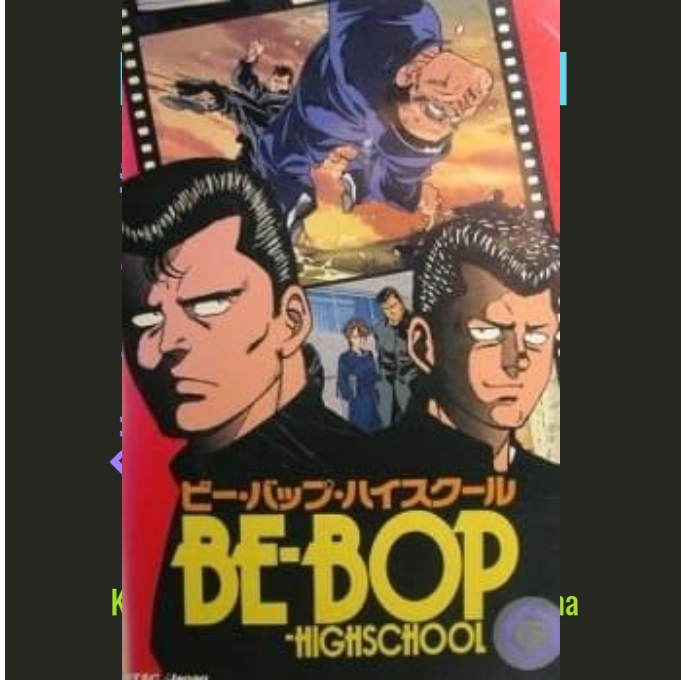
What did we want to build?



How did we build it?



User age/location filtering



Age = 27 years old

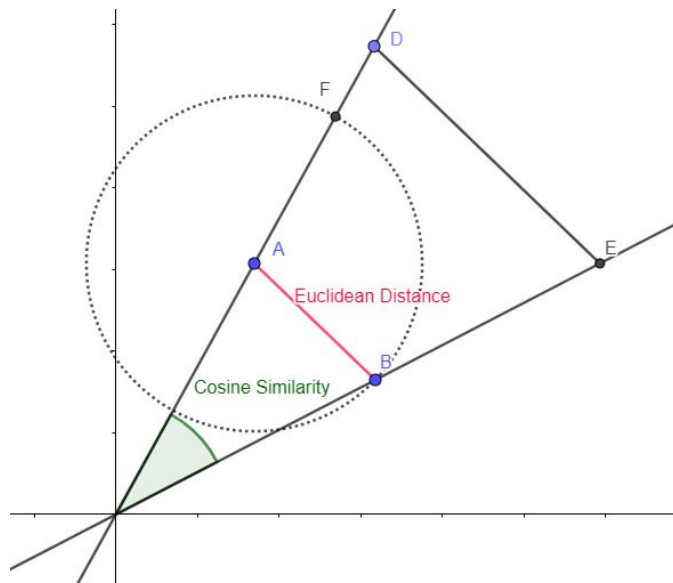


Location = Poland

How did we build it?

“Cosine Similarity”

Genre



Finds the correlation
between anime by
genre

Visualization: Genre based recommendation

"Sword Art Online"



Action

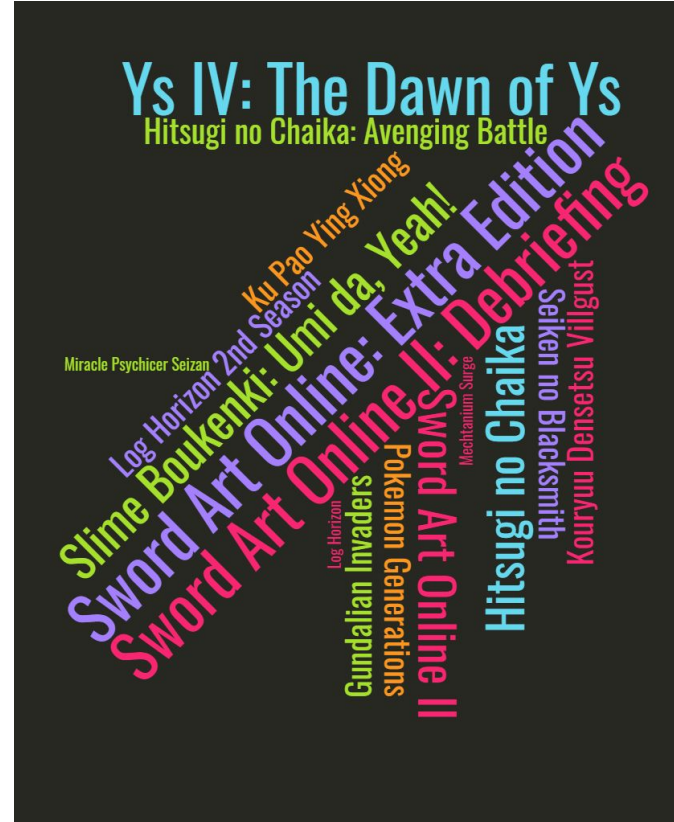
Adventure

Fantasy

Game



Similarity scores	titles
0.99	Sword Art Online II
0.99	Sword Art Online Movie: Ordinal Scale
0.99	Sword Art Online: Extra Edition
0.89	Ys IV: The Dawn of Ys
0.89	Sword Art Online II: Debriefing
0.80	Slime Boukenki: Umi da, Yeah!
0.80	Hitsugi no Chaika
0.80	Generation of Chaos Next: Chikai no Pendant



Some examples...

Age: 21

Location: United States

Anime: One Piece

Recommendations: 10



Genres: Action, Adventure, Comedy,
Super Power, Drama, Fantasy, Shounen

Age-Location-Genre-based Recommendation

Initializing

Ready

Please enter your age, location, anime you want recommendations based off of, and how many you would like recommended.

{age},{location},{anime},{recommendations}

For values you don't want to fill in put 'na'

21,United states,One Piece,10

Recommendations based on your age

Usagi to Kame

Mari Iyagi

Tsuki ga Kirei Recap

Yume 10 Yoru

Kamigami no Ki

Ten

Kurogane no Linebarrels Picture Drama

Binan Koukou Chikyuu Boueibu LOVE!

Shika to Kanta

Toradora!

Recommendations based on your location

Usagi to Kame

Yume 10 Yoru

Mari Iyagi

Tsuki ga Kirei Recap

Shika to Kanta

Seto no Hanayome

Nodame Cantabile

Udauda Yatteru Hima wa Nee!

Binan Koukou Chikyuu Boueibu LOVE!

Kamigami no Ki

Recommendation based on Ranking & Scoring

Highest rank
Zukkoke Sann
Zukkoke Sann
Zukkoke Sann
Zou no Hanak
Yuuki Aru Ho
Zumomo to Nu
Zukkoke Sann
Zukkoke Sann
Zouressha ga
Zou no Inai



ruguru-sama

akusen

High
Full
Kimi
Gint
Stein
Stein
Hunt
Gint
Ging
3-ga
Gint



ime
d

Recommendation based on Rating & Genre

Recommendations based on similar rated animes

Chobits

Yojouhan Shinwa Taikei

Nodame Cantabile: Paris-hen

Onkyo Seimeitai Noiseman

Shakugan no Shana II (Second)

Mobile Suit Zeta Gundam: A New Translation III - Love Is the Pulse of the Stars

Naruto

Saiunkoku Monogatari 2nd Season

Seto no Hanayome

Recommendations based on similar genres

One Piece: Episode of Sabo - 3 Kyoudai no Kizuna Kiseki no Saikai to Uketsugareru Ishi

One Piece: Long Ring Long Land-hen

One Piece: Episode of Merry - Mou Hitori no Nakama no Monogatari

One Piece: Episode of East Blue - Luffy to 4-nin no Nakama no Daibouken

One Piece: Episode of Nami - Koukaishi no Namida to Nakama no Kizuna

One Piece Movie 1

One Piece Movie 4: Dead End no Bouken

One Piece: Taose! Kaizoku Ganzack

Dragon Ball Movie 1: Shen Long no Densetsu

One Piece Movie 5: Norowareta Seiken



Limitations of our system



Important Note

anime.csv	anime_id	title	status	aired_string	score	scored_by	rank	popularity	members	genre
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user_mal.csv	username	anime_id	my_score
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Our dataset is unlabeled, so we cannot validate our results except through subjective feedback.

user_country_age.csv	username	gender	age
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user_by_age.csv	username	gender	age	country
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What does an Anime fan say?



Thanks!

