



Using NLP to Create a Tier List for Super Smash Bros

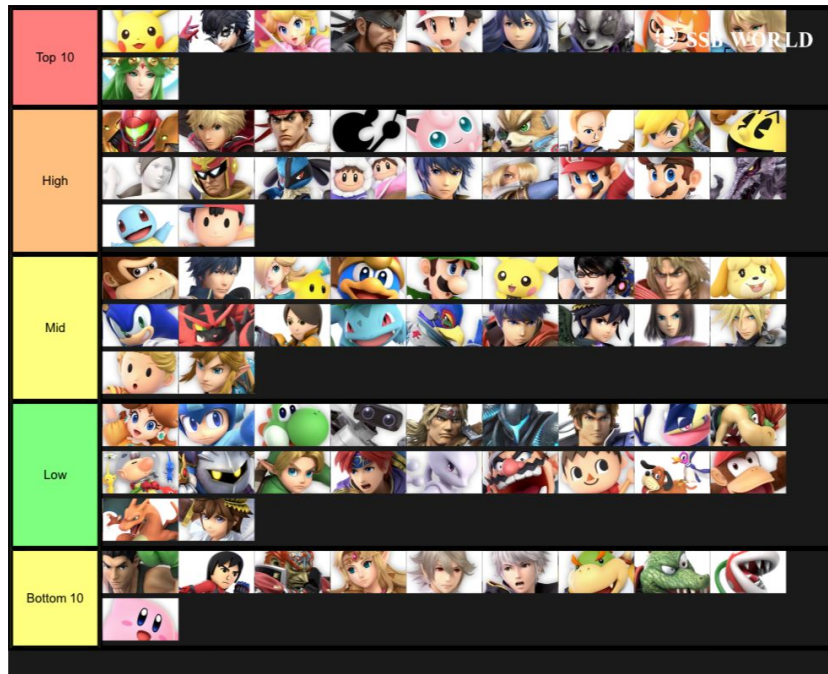
Danielo Bennett



Introduction

Motivation: Tier lists are highly subjective and subjective. The tier lists are usually created by individual gamers in the community & are meant to reflect community as a whole. Due to how subjective the “best” characters are, there is much contention from person to person.

Solution: Using Gamefaqs message board posts for Super Smash Bros. Ultimate, create a tier list that is based around the sentiment of the entire community



What is Super Smash Bros?

- A 2D fighting game including many of Nintendo's gaming franchises joined together. The point of each match is to knock your opponents off the stage to gather points.

Marvel: Infinity War is the most ambitious crossover event in history.

Nintendo:



What is GameFAQS?



A website that has FAQs, guides for many video-games, & message boards for each video game that allows players of the video game to discuss basically anything regarding the video game.

Methodology

BeautifulSoup

 mongoDB



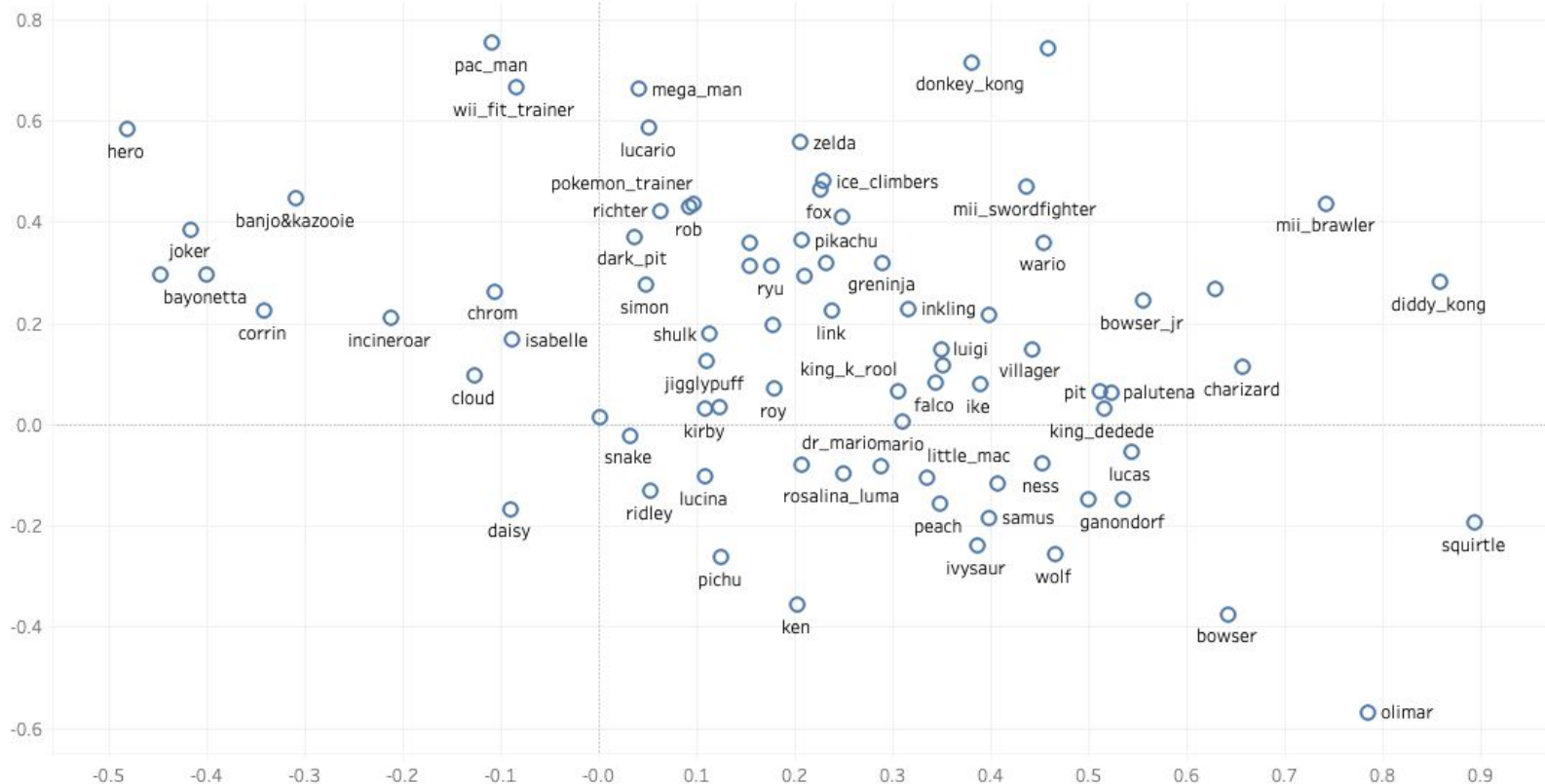
CorEx



Final Dataset

- Over **118K** posts from Smash message board from almost **5k** message threads.
- Standardized character names across various nicknames used by board.
- Removed common message board terms as well as normal english stop words.

Results – Word2Vec



Results - CorEx

```
58: olimar,hey,cranberry,sprite,discussionswitch,pm,wanna,arbiter,brock,misty  
59: lucario,sw,fc,code,friend,switch,pngswitch,mhgu,psn,nnid  
60: one,would,game,think,really,could,get,still,make,well  
61: wolf,mains,brawl,mysteriously,flames,suffering,servers,gathered,lost,bloody  
62: villager,accumulate,sleepy,throb,backup,karma,edgy,account
```

Corex anchored topic modeling didn't yield usable results. There are too many non-relevant words for the model to produce usable topics/ words for each character.

Conclusions

- It is extremely difficult to gather character rankings based on community rankings.
- Due to the nature of threads, it is difficult to tie posts back to a specific character.
- Irrelevant threads that have nothing to do with this game

Boards » Super Smash Bros. Ultimate » How good do you think Shulk is?

ZayKayWill ▾ 13 hours ago

What do you think? - Results (20 votes)

He's the best	10%	<div></div>
Top 2-5	5%	<div></div>
Top 6-10	10%	<div></div>
Top 11-20	15%	<div></div>
Top 21-35	5%	<div></div>
Top 36-50	10%	<div></div>
Top 51-65	5%	<div></div>
Top 66-82	40%	<div></div>

I think he's the best honestly.....

Bottom line love your self and what you do and GET THAT MONEY. **** every thing else! -shinv

Kikku_Panchi ▾ 13 hours ago

he looka like a man. he good yes yes

Fear and judgments I'll never understand...

Zakawer3 ▾ 13 hours ago

High-tier. Could be top-tier if his metagame fully evolves, but until then, he's just a high-tier.

Thank You!



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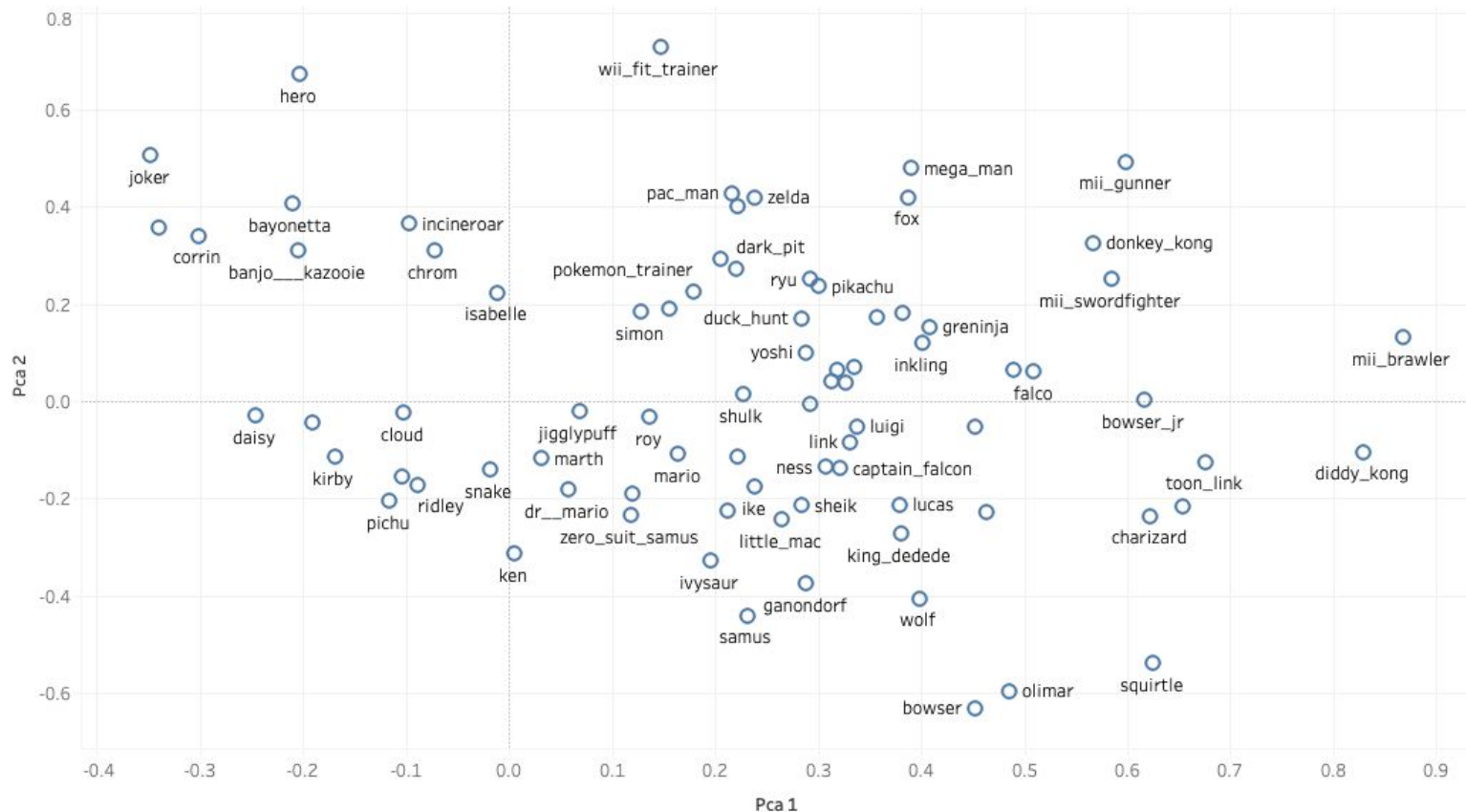


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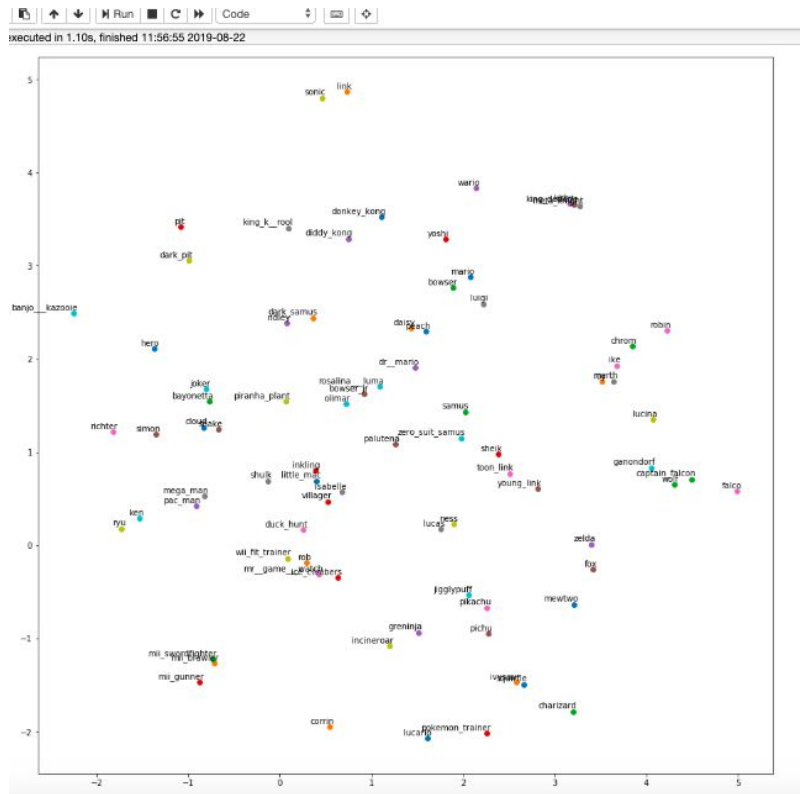
Future Work

- Track tier lists over time (takes into consideration changes to characters and

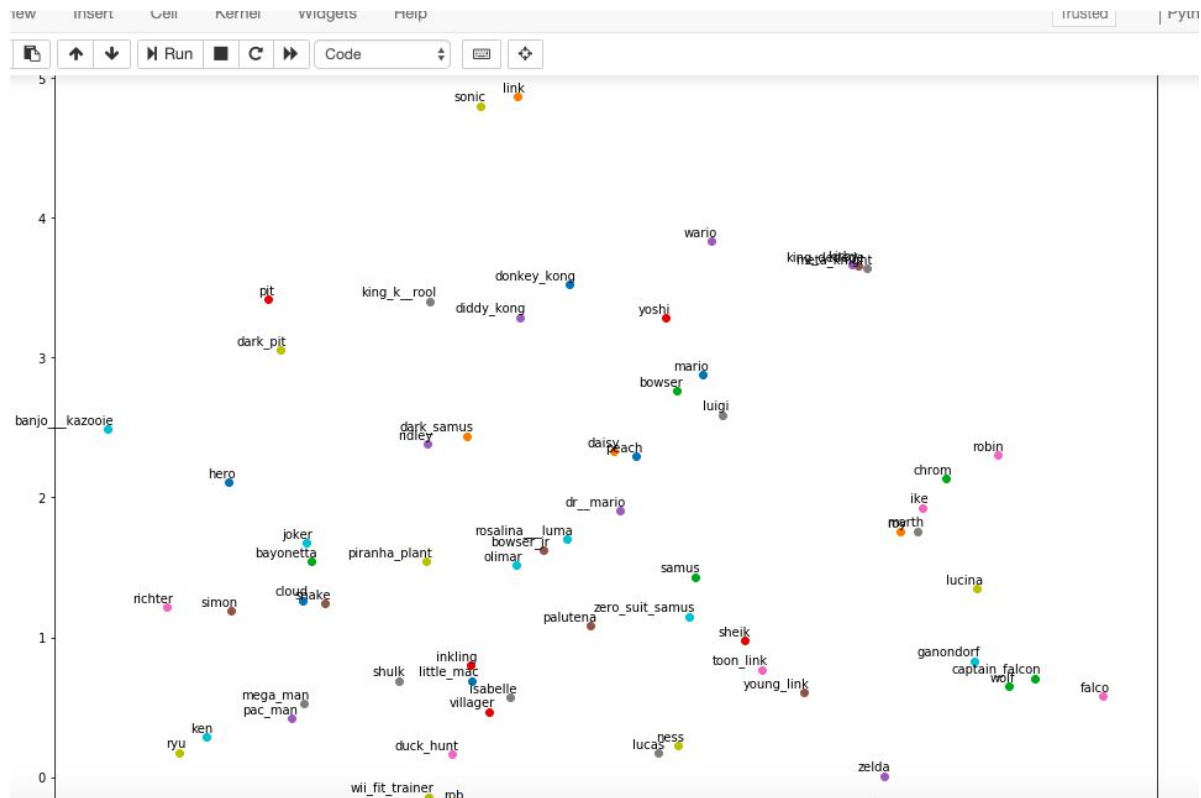
Appendix



Appendix



Appendix



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