

CS 171 Final Project Process Book

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Team Members

Team Name: TCS- Triangles, Circles and Squares

Leader: Stephanie Yang, szhang@g.harvard.edu

Member 1: Evelyn Manyatta, evelynmanyatta@college.harvard.edu

Member 2: Diana Feng, dianafeng@g.harvard.edu

Member 3: Quinne Pursell, quinnepurcell@college.harvard.edu

Team Agreement

- Communication will be done in the CS 171 Slack channel.
- Work will not necessarily be done together in person and may be done remotely, but good collaboration and communication via Slack is expected in a timely manner.
- An established time on Monday from 6:00-7:00pm has been set aside for group meetings if need be (<https://www.when2meet.com/?13403571-YOYPn>).
- Collaboration on implementation will be done in the shared process book and Github.
- Roles and specific responsibilities will be divided evenly each week based on individual abilities, preferences, and previous experiences.
 - Github czar: Diana Feng
 - Team leader: Stephanie Yang
- We will keep each other accountable so that one person does not work too much / too little.

Signatures: Quinne Pursell, Stephanie Yang, Diana Feng, Evelyn Manyatta

Date: October 25th, 2021

Initial Planning

Project Title

Visualizing Streaming Platform Performance

Project Abstract

Original series from streaming platforms are increasingly gaining popularity and accolades in recent years. Every time a new streaming platform is launched or a popular show is trending, a new entry of the Streaming Wars¹ is added to popular press “news.” We are interested in visualizing the performance of the four major streaming platforms: Netflix, Disney+, Hulu and Amazon Prime Video. By visualizing the content on the platforms, search trends, ratings, and Tweets related to the platforms, we hope to compare the different platforms, see the trends, and visually inspect why certain platforms are performing better than others.

We are sourcing our data from a number of different datasets, primarily hosted on Kaggle. These include information about platform shows, movies, ratings, and twitter reactions to popular shows.

¹ <https://observer.com/2021/09/amazon-apple-netflix-disney-hbo-max-streaming-wars/>
<https://www.wired.com/story/disney-plus-hbo-max-streaming-wars/>

Here are the links to the datasets:

Disney+ data:

<https://www.kaggle.com/shivamb/disney-movies-and-tv-shows>

Netflix data:

- <https://www.kaggle.com/shivamb/netflix-shows>
- <https://www.kaggle.com/rishidamarla/netflix-shows-ratings-distribution>
- Squid game tweets:
<https://www.kaggle.com/deepcontractor/squid-game-netflix-twitter-data>

Amazon Prime Video data:

- <https://www.kaggle.com/shivamb/amazon-prime-movies-and-tv-shows>

Hulu data:

- <https://www.kaggle.com/shivamb/hulu-movies-and-tv-shows>

IMDB ratings:

- <https://datasets.imdbws.com/>

Idea Brainstorm

Streaming data - *link*

Mapping

Basic Info

Project title: Visualizing Streaming Platform Performance

Names & emails: Stephanie Yang (szhang@g.harvard.edu), Evelyn Manyatta (evelynmanyatta@college.harvard.edu), Diana Feng (dianafeng@g.harvard.edu), Quinne Pursell (quinnepurcell@college.harvard.edu)

Team name: TCS - Triangles, Circles, and Squares

Background and Information

Discuss your motivations and reasons for choosing this project, especially any background or research interests that may have influenced your decision

New streaming platforms seem to be launching every few months in the past two to three years. Back in the day, one Netflix subscription would allow a user to watch most of the streamable content on the internet. It is no longer the case now. As more platforms are launched, access to existing IPs (intellectual properties) are locked behind different paywalls, and new original IPs are being created each year. What does it mean for the industry and for the consumer? Does competition in this business really lead to benefits to the consumers? Most importantly, as

consumers of streaming services ourselves, which platform(s) should we subscribe to now under our budget?

We hope to examine these questions by looking at two areas: the business performance of the various streaming platforms (as reflected in revenue, profit, number of subscribers, and search trends), and the amount and quality of the streaming content made available to the viewers (as reflected in total number of titles available, subscription price, the viewership and ratings of original content, and the public's engagement with original content on social media).

Related Work

Anything that inspired you, such as a paper, a website, visualizations we discussed in class, etc.

- Inspiration for a deeper look at what impacts different services' performance -
<https://observer.com/2021/09/amazon-apple-netflix-disney-hbo-max-streaming-wars/>
- This analysis on Netflix data contains clean, relevant visualizations related to what we want to accomplish in our project -
<https://www.kaggle.com/joshuaswords/netflix-data-visualization>

Client/Audience/Goals

Provide a description of your audience and the primary questions you are trying to answer with your data story. Do you have any overarching goals and objectives that you want to accomplish?

Audience - general public, anyone interested in streaming platform performance, streaming companies

Goals - inspect why certain platforms are performing better than others, compare top streaming services/platforms

Questions

1. How is the popularity of the platforms (as reflected in Google search trends and subscriber count when available) changing longitudinally and geographically?
2. What are the most popular and acclaimed shows and movies on the platforms?
3. How many original shows and movies have the platforms produced, and how are they doing critically?
4. Do platforms with more content that can't be found on other platforms perform better?
5. How is the public engaging with the most popular shows on the platforms?
6. How have subscriptions prices changed over time?

Data

Disney+:

- Disney+ Movies and TV Shows
(<https://www.kaggle.com/shivamb/disney-movies-and-tv-shows>)
 - unique show id
 - movie or tv show
 - title/name
 - date added on disney+
 - release year
 - watch rating
 - total duration
 - genre
 - the summary description

Netflix:

- Netflix Movies and TV Shows (<https://www.kaggle.com/shivamb/netflix-shows>)
 - unique show id
 - movie or tv show
 - title/name
 - date added on netflix
 - release year
 - watch rating
 - total duration
 - genre
 - the summary description
- Netflix Shows - Ratings Distribution
(<https://www.kaggle.com/rishidamarla/netflix-shows-ratings-distribution>)
 - title
 - watch rating
 - watch rating reasoning
 - rating description (#)
 - release year
 - user rating score
 - user rating size
- Squid Game Netflix Twitter Data
(<https://www.kaggle.com/deepcontractor/squid-game-netflix-twitter-data>)
 - user_name
 - user_location
 - user_description
 - user_created
 - user_followers
 - user_friends

- user_favourites
- user_verified (true/false)
- date
- text

Amazon Prime Video:

- Amazon Prime Movies and TV Shows
(<https://www.kaggle.com/shivamb/amazon-prime-movies-and-tv-shows>)
 - unique show id
 - movie or tv show
 - title/name
 - date added on amazon prime
 - release year
 - watch rating
 - total duration
 - genre
 - the summary description

Hulu:

- Hulu Movies and TV Shows
(<https://www.kaggle.com/shivamb/hulu-movies-and-tv-shows>)
 - unique show id
 - movie or tv show
 - title/name
 - date added on hulu
 - release year
 - watch rating
 - total duration
 - genre
 - the summary description

IMDB ratings (<https://datasets.imdbws.com/>):

- title.basics.tsv
 - unique id of title
 - type of title (movie, tv show, etc.)
 - popular title
 - original title
 - adult title (true/false)
 - release/start year
 - tv series end year
 - runtime in minutes
 - genres
- title.ratings.tsv
 - unique id of title
 - average rating

- number of votes

Other:

- Movies on Netflix, Prime Video, Hulu, and Disney+
[\(<https://www.kaggle.com/ruchi798/movies-on-netflix-prime-video-hulu-and-disney>\)](https://www.kaggle.com/ruchi798/movies-on-netflix-prime-video-hulu-and-disney)
 - unique movie id
 - title
 - year produced
 - target age group
 - imdb rating
 - rotten tomatoes score (%)
 - on netflix (true/false)
 - on amazon prime (true/false)
 - on hulu (true/false)
 - on disney+ (true/false)
 - genres
 - country
 - language
 - runtime
- TV Shows on Netflix, Prime Video, Hulu, and Disney+
[\(<https://www.kaggle.com/ruchi798/tv-shows-on-netflix-prime-video-hulu-and-disney>\)](https://www.kaggle.com/ruchi798/tv-shows-on-netflix-prime-video-hulu-and-disney)
 - unique show id
 - title
 - year produced
 - target age group
 - imdb rating
 - rotten tomatoes score (%)
 - on netflix (true/false)
 - on amazon prime (true/false)
 - on hulu (true/false)
 - on disney+ (true/false)
- Google search trends
[\(<https://trends.google.com/trends/explore?geo=US&q=netflix,Disney%20%2B,Hulu,HBO%20MAX,Amazon%20Prime%20Video>\)](https://trends.google.com/trends/explore?geo=US&q=netflix,Disney%20%2B,Hulu,HBO%20MAX,Amazon%20Prime%20Video)
 - Relative search interest over time for up to four search terms, filterable by region
- Streaming service subscriber and revenue data: these data are not procured in spreadsheet format and have to be manually entered for visualization
 - Netflix
[\(<https://www.businessofapps.com/data/netflix-statistics/>\)](https://www.businessofapps.com/data/netflix-statistics/)
 - Netflix annual revenue (in million/billion dollars)
 - Netflix annual profit (in million dollars)
 - Netflix total subscribers by quarter (in millions)
 - Subscriber comparison among Netflix, Disney +, and Amazon Prime Video

- Netflix share of streaming minutes (%)
- Most viewed Netflix original movies and series as of Aug 2021 (in million views)
- Disney+

(<https://www.businessofapps.com/data/disney-plus-statistics/>)

 - Disney+ annual revenue (in billion dollars)
 - Disney+ annual profit (in billion dollars)
 - Disney+ total subscribers by quarter (in millions)
- Hulu

(<https://www.businessofapps.com/data/hulu-statistics/>)

 - Hulu annual revenue (in billion dollars)
 - Hulu annual profit (in billion dollars)
 - Hulu total subscribers by year (in millions)

Data Cleanup

Do you expect to do substantial data cleanup? What quantities do you plan to derive from your data? How will data processing be implemented? Try to minimize the amount of cleanup you have to do by finding cleaned and ready-to-go data sources whenever possible.

The datasets from Kaggle do not require extensive cleaning, but we do have to decide which segment of the datasets to use for the visualization, since the different datasets include different time periods. Overall, we plan to derive show/movie metadata, viewership (when available), ratings, search trends, and viewer engagement from the show information, as well as general subscriber count, revenue and profit, and search trends from the data.

We will first manually enter the data that requires manually labeling into different csvs. This should not take too long, because as tedious as the task is, the amount of data to enter is quite limited. Then, we will explore all datasets and meet to discuss the data segmentation approach. Based on the final data size and data structure, we may create json objects instead of keeping the data in csv form.

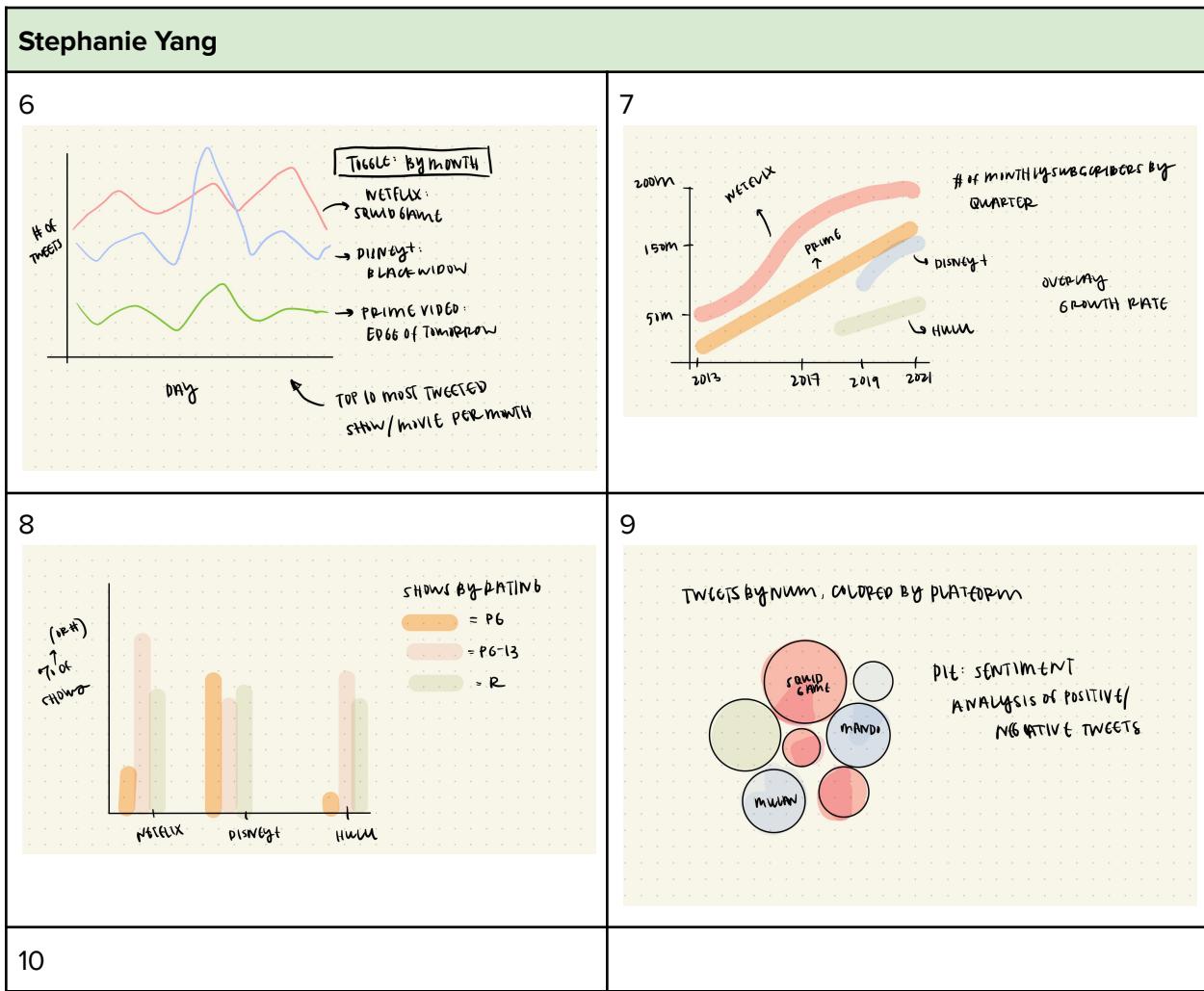
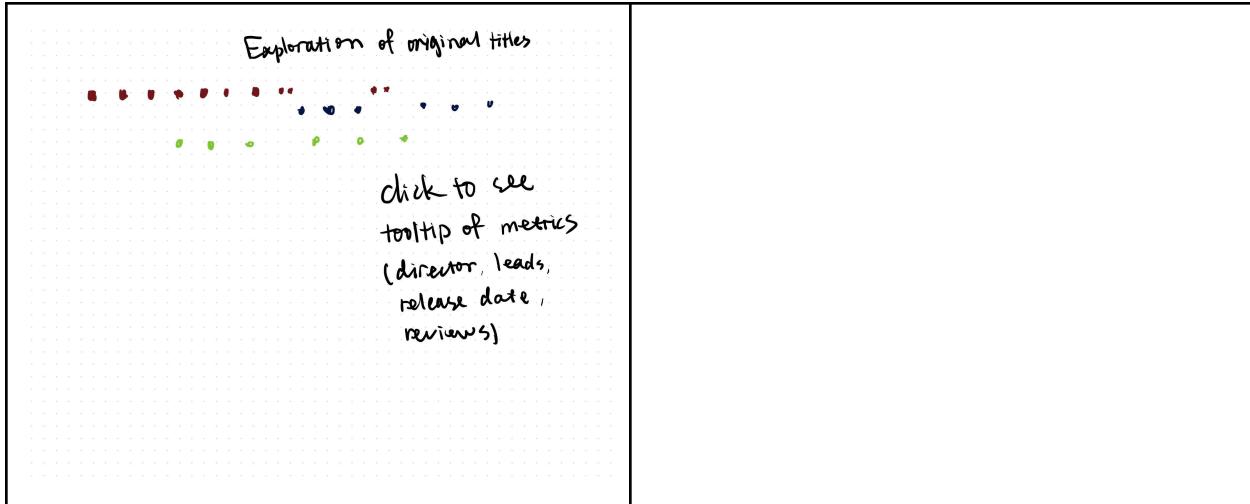
Sketch

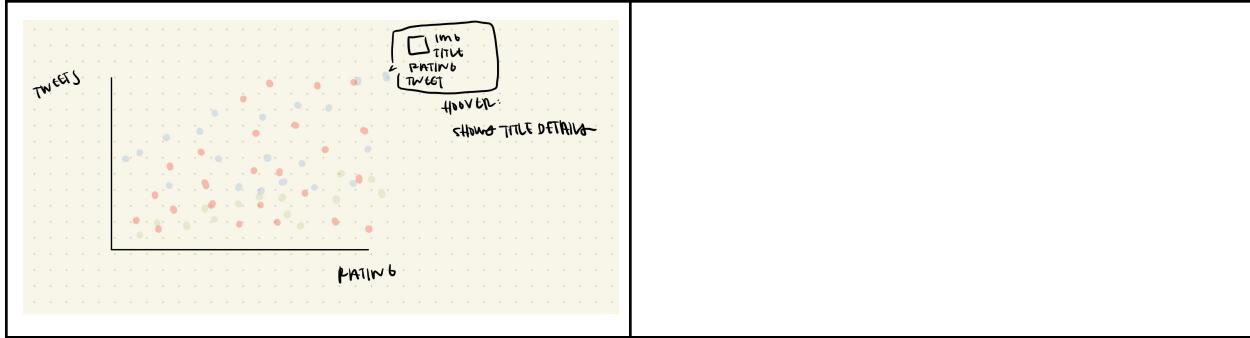
Week 11/1/2021:

- Finalize dataset (merging all existing data) (mostly done: Wednesday 11/3)
 - Compile all kaggle data (steph)
 - Pricing and plans (qp)
 - Annual revenue and profit

- Tweets about shows for a period of time [DF] (note: code in place, not sure which tweets to include)
- EDA sketches based on data (mostly done: Friday 11/5)
 - Each do 5 sketches
- Decide (mostly done before monday 11/8)
- Preliminary storyline (mostly done: monday 11/8)
 - Email + slack new meeting time

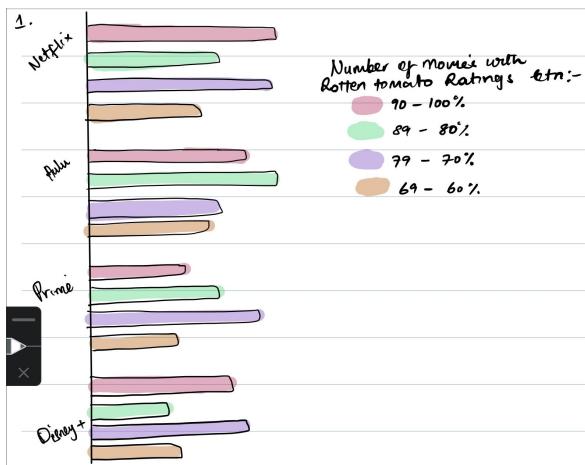
Diana Feng	
1	<p>• Netflix • Disney+ • Hulu</p> <p>Animated dynamic timeline of originals animation plays and adds new titles through transition interaction: change speed (through delay)</p>
2	<p>Animated map of tweets</p>
3	<p>REVENUE</p>
4	<p>Case study of a popular show (Mandalorian, Squid Game, the handmaiden's tale) World tweets (1 month after release)</p> <p>Search trend (dynamic)</p> <p>Awards and review</p> <p>IMDB Rotten Tomatoes</p>
5	





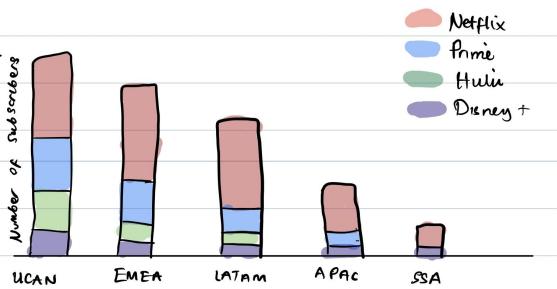
Evelyn Manyatta

11

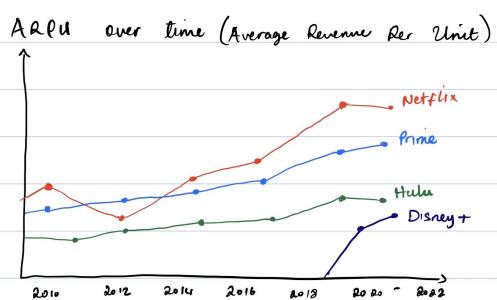


12

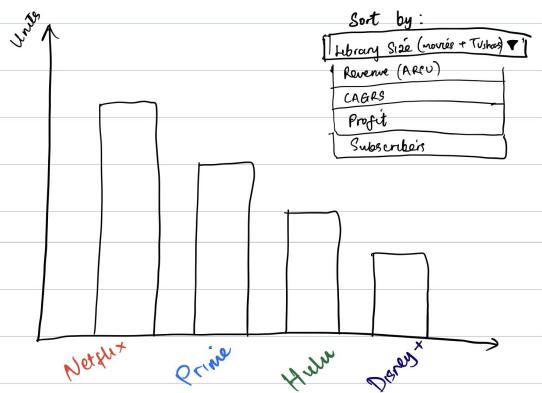
2. Market Share globally



13



14

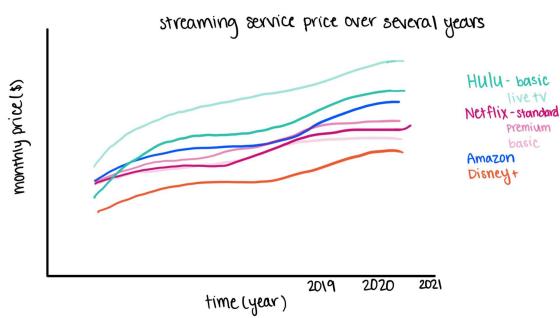


15

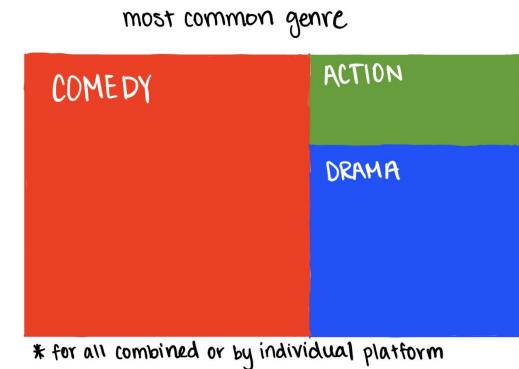


Quinne Pursell

16

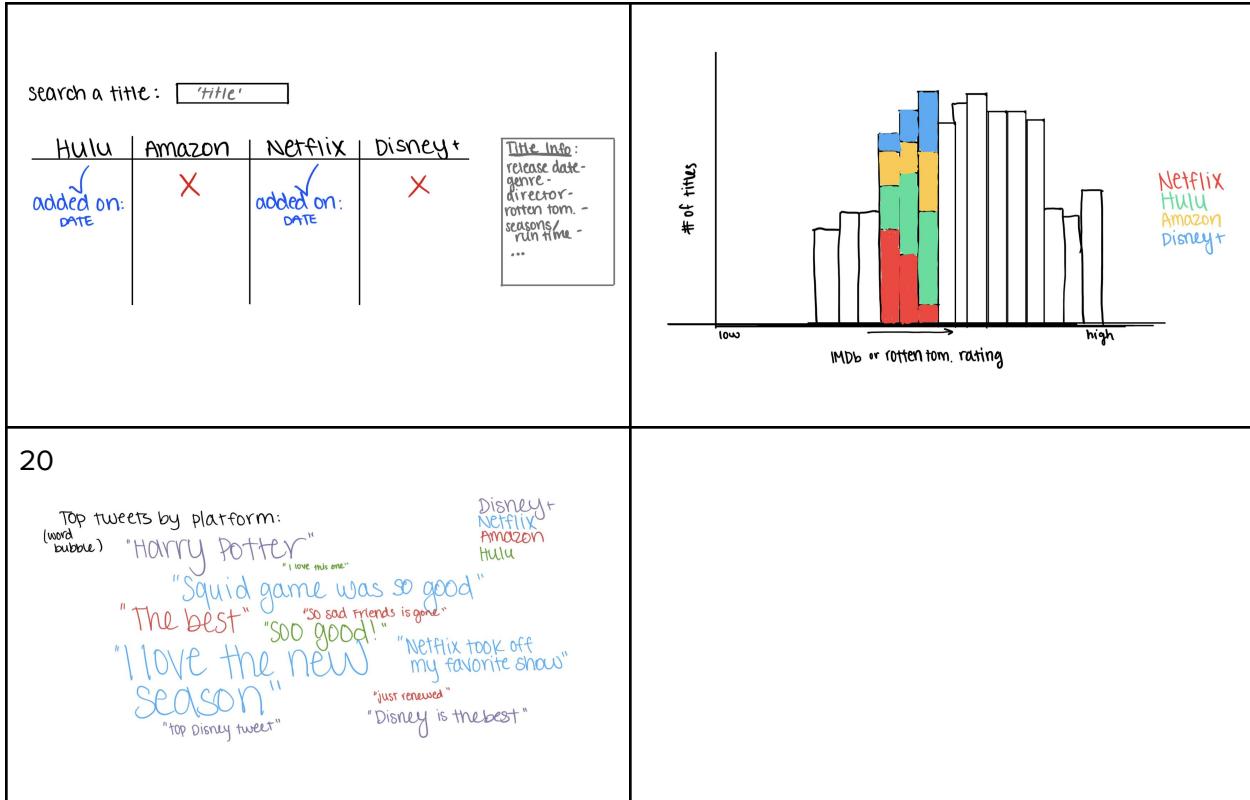


17



18

19



20

Top tweets by platform:
 (word bubble) "Harry Potter"
 "I love this one."
 "Squid game was so good"
 "The best" "So sad Friends is gone"
 "so good!" "Netflix took off my favorite show"
 "I love the new season"
 "just renewed"
 "top Disney tweet"
 "Disney is the best"

Decide

Documentation of process

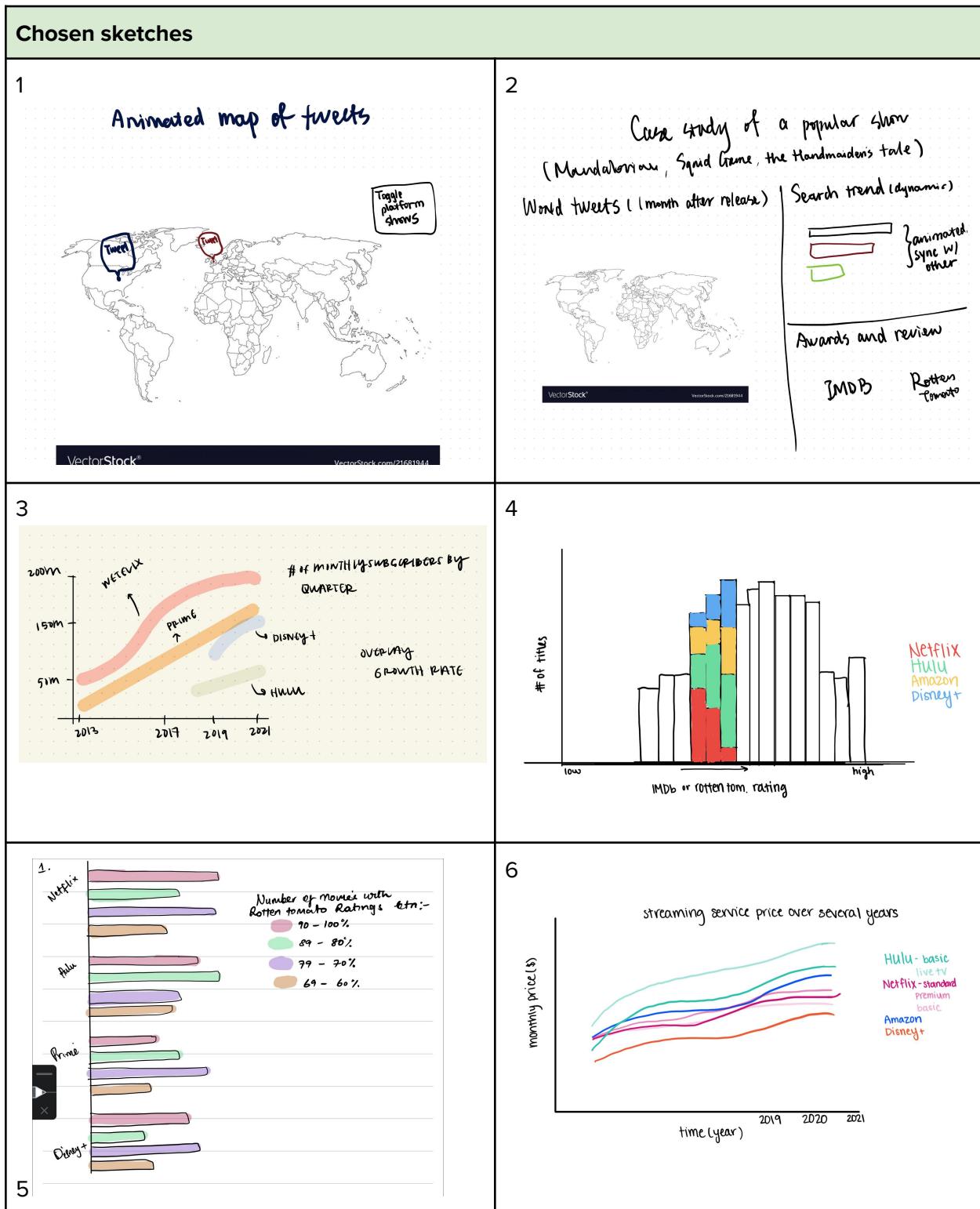
- We first created a table of the sketched on [Notion](#)
- As a group, we discussed the similarities and differences amongst the sketches, and talked about the difficulty in data preprocessing and visualization implementation in D3 for sketches of interest
- We then casted our votes in the Notion table
- Here is a screenshot of our top ranks:

Playground - CS171 Final Project Design Voting

+ Add a view Properties Group NEW Filter Sort Search ... New ▾

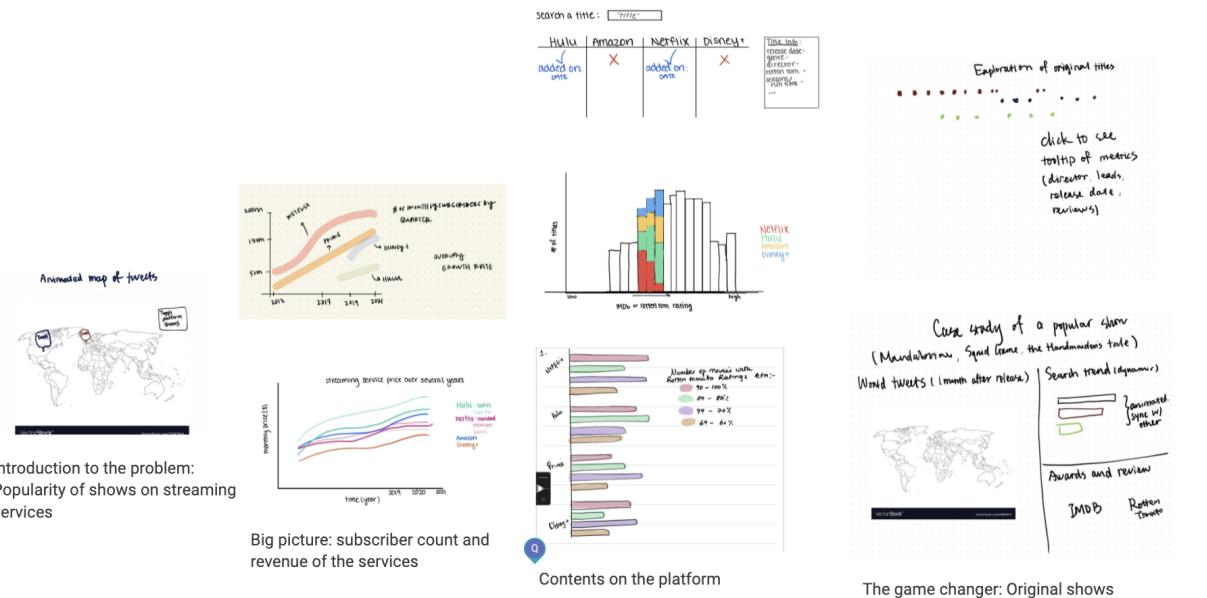
Aa	Sketch ID	Question ID	Author	# DF	# SY	# EM	# QP	# Combination factor	Σ Tally	≡
	2	5	DF	1	1	1	1		4	
	4	3 5	DF	1	1	1	1		4	
	7	1	SY	1	1	1	1		4	
	19	2	QP		1	1	1		3	
	11	1 2	EM		1	1			2	
	16	6	QP	1			1		2	
	18	2 4	QP	1					1	

- Then we combined the sketches that are very similar (by adding in the “combination factor” column), counted the total votes for these sketches, and selected the sketches with top votes for each question group.



Storyboard

<https://jamboard.google.com/d/1ZbJaJcNT8p7FYA-F9QVno0M-CmqGF8IMih6EeLqbw3E/edit?usp=sharing>



Based on the group's decisions, we aggregated the chosen visualizations in google jamboard and created a rough draft of a storyline. First, we hope to show the users the popularity of streaming services through a dynamic twitter map that displays tweets about popular streaming shows and movies across the globe. Next, we want to show that growth in subscriber count and revenue across streaming platforms. Our main point is that the original shows and movies produced by the platforms lead to higher growth, and we hope to show this by visualizing the overlap between shows, displaying the ratings of original shows, and the popularity of these shows by proxy of number of tweets. Finally, we hope to take a deep dive into the original shows and movies that each platform produces.

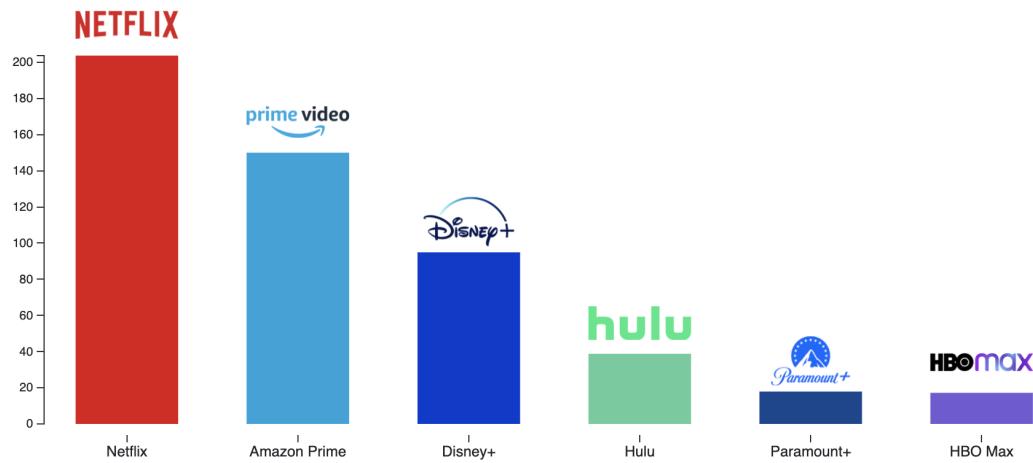
Prototype V1

Partially Implemented D3 Visualization (Graph 1)

Streaming Service Subscriber and Growth

A ranking of selected leading streaming services

Group by
Subscribers

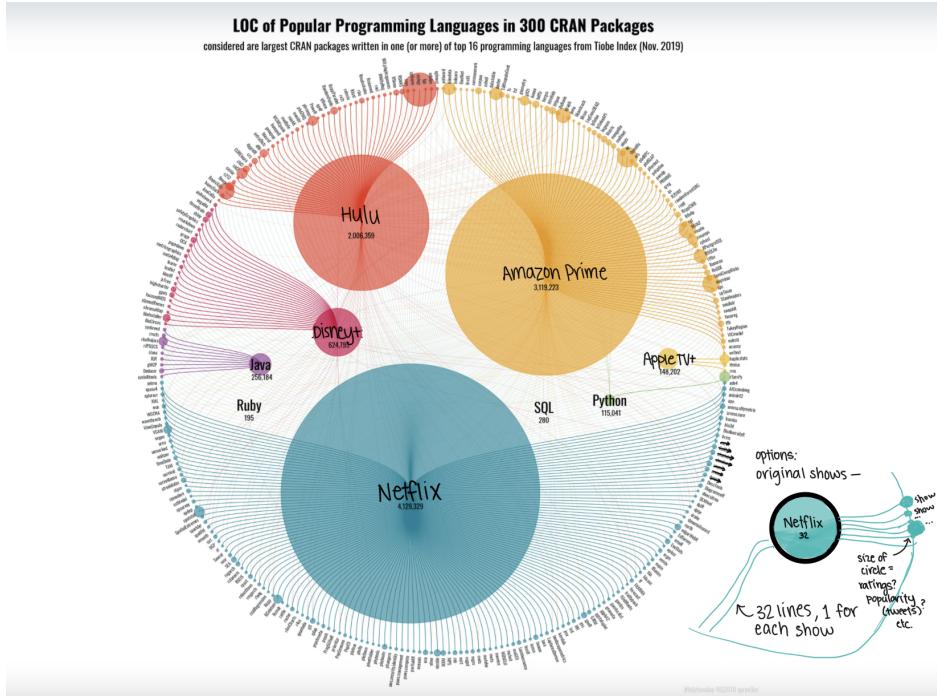


Interaction: when the user toggles the “groupby”, it displays a barchart of the growth in subscribers from 2020-2021.

First Design of an innovative view (Graph 2)

Inspiration and sketch:

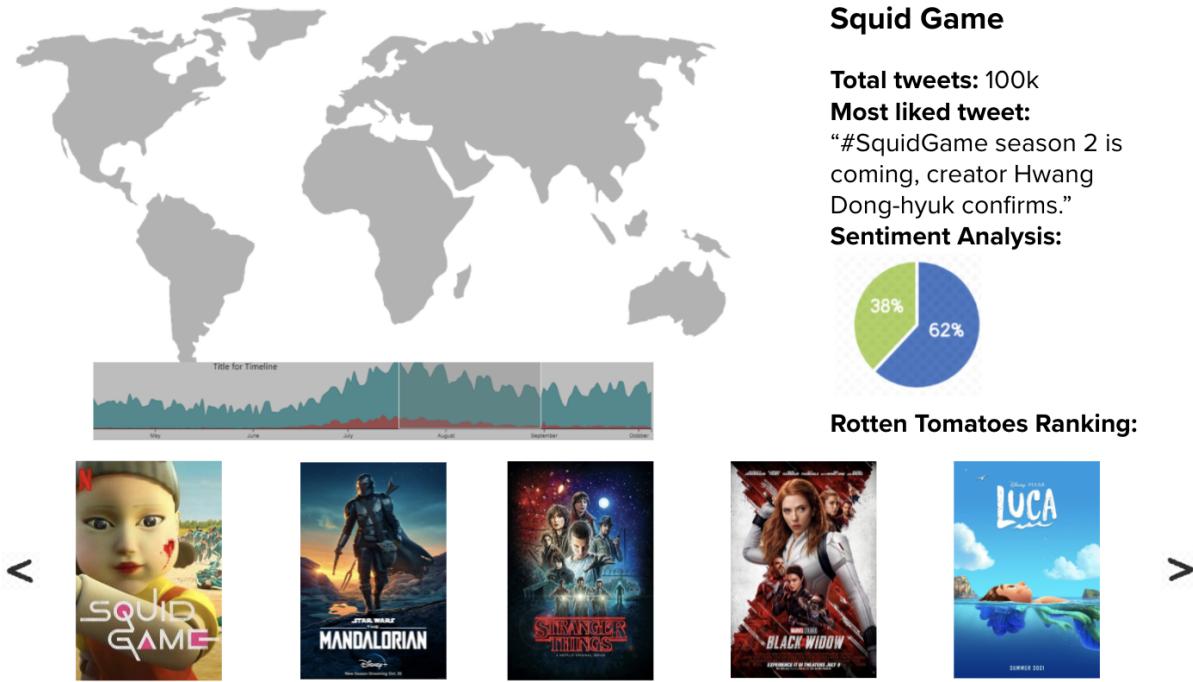
https://mmancinelli.github.io/space_monkeys/#7



Each streaming platform service is represented with a circle in the middle whose size represents the number of original shows available. The individual lines coming out of the circles will represent each original show whose size (or color) depends on some aspect (i.e. streaming service, IMDb ratings, viewing ratings (PG...), country of origin, movie/tv show). The visualization will be toggle-able so that the viewer can select the aspect of the original show they want to see around the circle (i.e. change it from IMDb ratings to genre).

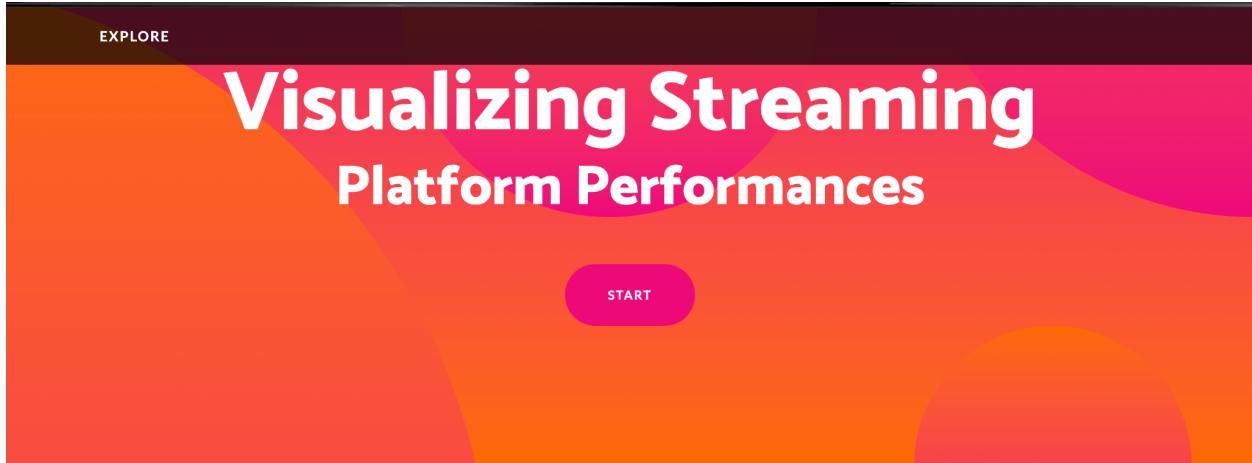
Alternatively, we could have the viewer be able to toggle between aspects for the inner circles and the outer circles would stay the same (like only ratings), so instead of it only being representative of original shows, it could show movies, number of shows, etc. Since we have such large datasets, we will explore which of these interactive options will look best and be the most informative for the user once this is implemented in D3.

Graph 3



Since we weren't able to obtain viewership data for all movies and tv shows on netflix, we wanted to visualize popularity by the number of tweets the movie or tv show received. Here, we display the 10 tv shows or movies from netflix or disney+ that received the highest number of tweets. The user can surf through these by clicking on the movie poster. When a poster is clicked, we show a world map, that will display number of tweets by color, depending on the timescale that the user chooses with the brushable timeline. It also displays information about the total tweets, most liked tweet, a sentiment analysis of all the tweets, and the review for the show or movie.

Rough Webpage design



Popularity of shows on streaming services

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Subscriber count and revenue of the services

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Content on the



EXPLORE Content on the platforms

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The Game Changer: Original Shows

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Refined Data Story:

- Comparison of streaming sites by subscribers and growth (**Steph**)
 - [Data](#)
 - Netflix, Disney+, Hulu, Prime video, Paramount, HBO max
- Why are Netflix (highest subscriber) and Disney+ (highest growth) doing so well?
- Pricing (**Quinne**)
- Exploring overlap of movies and shows between streaming platforms (**Evelyn**)
- Exploration of original titles
 - Which platform has the most original content? (Graph 2) (**Quinne**)
 - By Genre
 - By Rating
 - By movie / tv show
 - By IMdb Rating
 - By country
 - Deep dive into most popular original content by tweets and search trends (Graph 3) (**Steph**)
- Search for which platform is best for you as a user (**Diana**)

Prototype V2

User Testing

Tester Name: Marika Thompson

Tester Email: mj_thompson@college.harvard.edu

General Observations from the think-aloud study:

- First chart
 - It was confusing to have growth and subscriber count in the same bar graph
 - Hard to interpret what the growth graph was showing
 - Better to have separate graphs
 - Insight: platforms with highest subscribers have lowest growth
- Second chart (Tweet map)
 - Title was confusing
 - It was nice that a limited number of shows are included so it's not overwhelming
 - Hover/click over the show posters was confusing
 - Did not feel that it was necessary to have a map showing global tweets
- Third chart (Overlap of shows between platforms)
 - A venn diagram only containing 2 platforms would require too much work from the perspective of the user
- Fourth chart (Original shows between platforms)
 - Like the circular design
 - Would be most interested in seeing TV show or movie and the IMdb rating

What does the tester like about your data story?

- Liked the focus on the original shows
- Wanted more diverse information about each platform, e.g. the pricing

What improvements does the tester point out?

- Definition of terms (make them more transparent/self-explanatory)
- Some guidance on interaction (for less obvious graphs)
- Improve coloring (two greens)

Was the intended key message clear to the tester? Why or why not?

We feel that we need to restructure our data story since the key message was not clear. Many of the graphs seemed disparate and took some explaining in order to convey the overall message and purpose.

Did the tester get your next steps or call to action? Why or why not?

The call to action is also unclear: whether it is directed towards the producers of these streaming sites, or whether it should be directed to the individual consumer. We need to reemphasize our data story in order to make the call to action more clear.

Tester Name: Charlie Yang

Tester Email: charlieeyang@gmail.com

General Observations from the think-aloud study:

- First chart
 - The colors of the different bars were helpful to differentiate the platforms
 - Fixing the switching from growth to subscriber count chart
 - Adding axis labels in order to help the user understand the units and making the switch more apparent when choosing between growth and subscribers
- Second chart (Tweet map)
 - The map did not change too much between shows, so not much information was gained from this part of the visualization
 - Would be nice to be able to hover over part of the map and see specific popular tweets
 - Hover was not intuitive
- Third chart (Overlap of shows between platforms)
 - Venn diagram with all the platforms may not be able to show all the information or could be information overload
 - Could have comparison between two platforms if users didn't have to explore and it was more of a directed story
- Fourth chart (Original shows between platforms)
 - Liked exploration of the original shows and liked the way it was visualized
 - What if users specifically want to look at which platform has most children's programming? Difficult to tell with the current graph
 - Add more "low-level" basic graphs to display simple information about the platforms in addition to this graph

What does the tester like about your data story?

- Liked that it begins with general basic information about each platform's subscriber count and growth: presents a good "hook"
- Would like more basic information throughout the story in addition to the more complex, in-depth graphs

What improvements does the tester point out?

- Labeling axes

- Focusing on more basic information before moving to specific information like tweet location and sentiment analysis

Was the intended key message clear to the tester? Why or why not?

At this point, the intended message was not clear to the tester. Although he came up with a few insights, like that netflix had the highest subscriber count and that both netflix and disney+ had popular original shows based on tweet data, the overall message was lost.

Did the tester get your next steps or call to action? Why or why not?

The call to action was also unclear. As a tester, he would be interested in the call to action being directed towards the user to know what platform might best suit his interests.

Team reflection:

- Finish the rest of the graphs
 - Re-conceptualize the content overlap graph [Evelyn]
 - Add in user interaction (initial survey and post-story recommendations) [Diana]
- Re-structure data story
 - Opening
 - User survey [Diana]
 - What are you subscribed to
 - What are you aware of
 - Which ones do you think has the most subscribers
 - Which ones are making the most money
 - Overview of platform performance [Stephanie]
 - Subscriber count
 - Subscriber growth
 - Profit/revenue
 - Pricing history [Quinne]
 - What are you paying for
 - Content overview [Diana maybe? Add interactions]
 - Movies vs. TV shows (donut maybe?)
 - ~~Language and country~~
 - Genre
 - PG ratings
 - Percentage of new releases (within 2021)
 - Ratings (IMDB/Rotten tomatoes)
 - Content overlap [Evelyn]
 - Innovative graph yay
 - The non-overlapping content: original shows/movies
 - Original content overview (similar to content overview?) [Evelyn]
 - Percentage of original content -> how much original

- For movies and TV shows
- Distribution of original content -> diversity of the original content
 - ~~Language and country~~
 - Genre
 - Ratings
 - PG rating
 - Bar graph of total original release by year -> trend in production
- Deep dive into original content [Quinne]
 - Innovative graph yay
 - Google Trends graph [Steph]
- Summary and take-away
 - Key messages (one liners?) [all]
 - Which platforms are doing better in what ways
 - Which platforms have more content/new content/original content
 - Some insight from original content
 - Feedback to original content
 - Last user take away [Diana]
 - Rank/choose priorities
 - Price range
 - Genre
 - Kids or no kids
 - Original content
 - New release
 - Provide a recommendation

Prototype V2

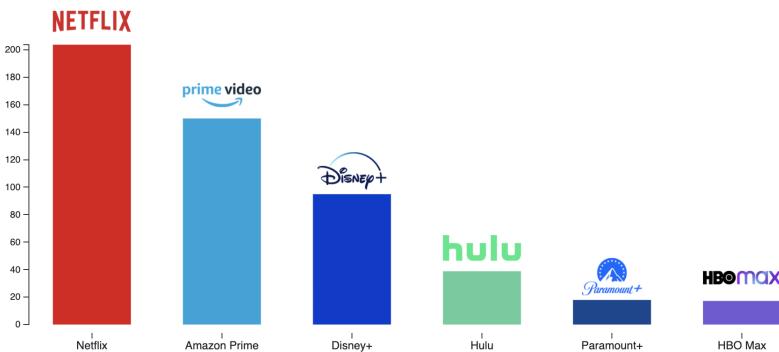
Before and After

Before user feedback:

Streaming Service Subscriber and Growth

A ranking of selected leading streaming services

Group by
Subscribers



After user feedback:

Insights on Platform Subscribers

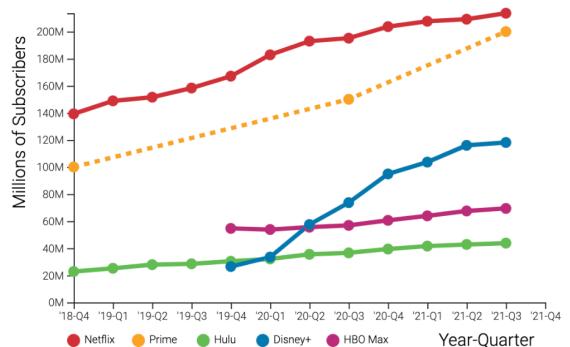
Key Insights (hover to see on graph):

Netflix currently has the most number of subscribers at 213M. Amazon Prime is a close second with an estimated 200M subscribers.

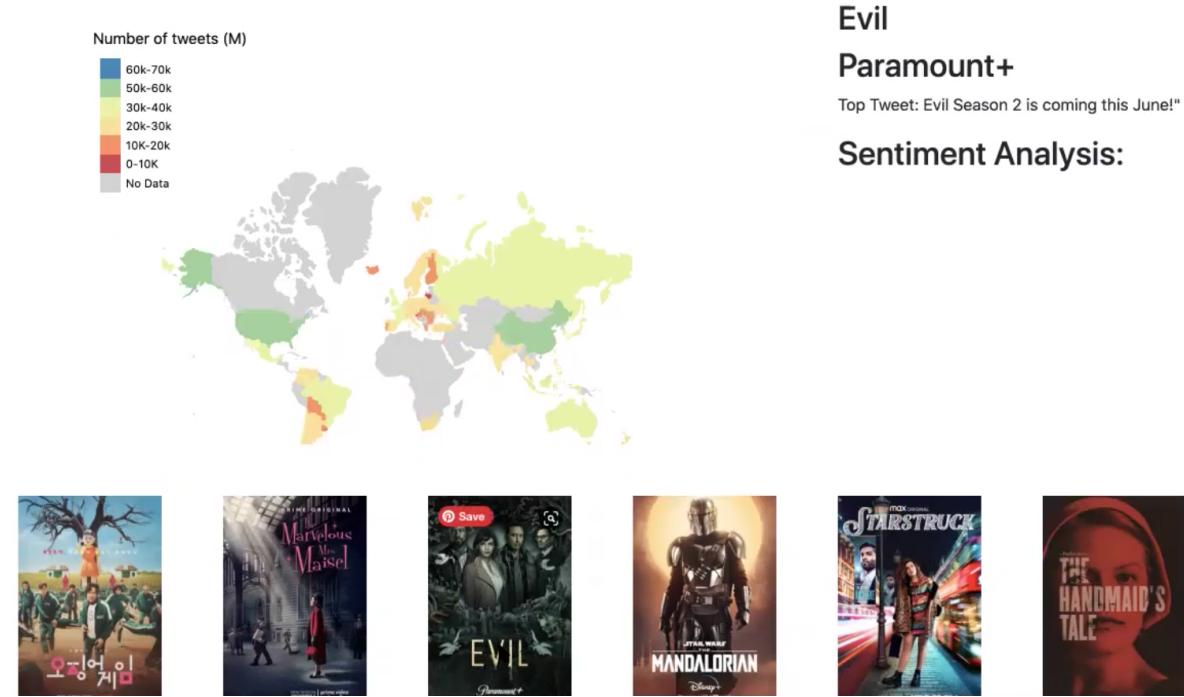
Although Disney+ only launched in late 2019, it has the highest growth rate, surging from 26M subscribers in 2019 to 118M in 2021.

Regardless of the platform, the number of subscribers to streaming platforms has been steadily increasing, signaling a global interest.

Platform Subscribers by Year and Quarter

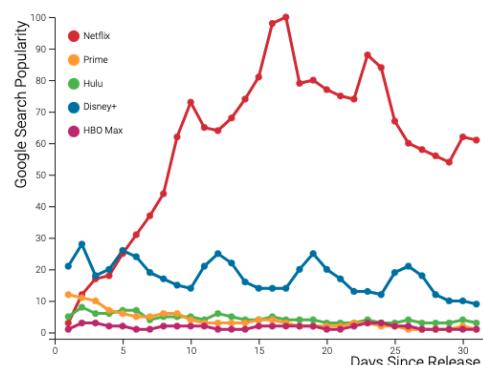


Graph 2 Before User feedback:



Graph 2 After user feedback:

Google Trends Popularity



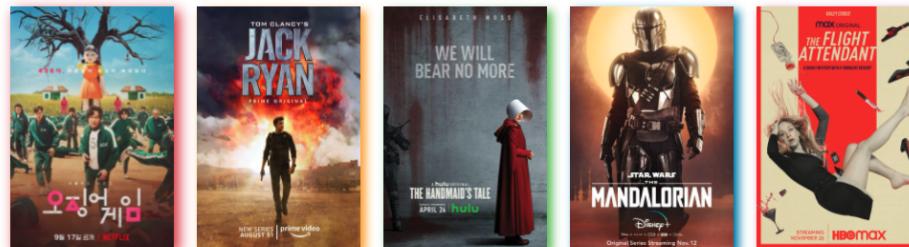
NETFLIX

Squid Game

Season 1

Rotten Tomatoes Score: 94/100

Show Summary: Hundreds of cash-strapped contestants accept an invitation to compete in children's games for a tempting prize, but the stakes are deadly.



Data Story

Opening up : User data survey

- How much does the user know about the streaming platforms?
- Which platform has the highest subscriber count?, fastest growing? most original content?
- Key Insights on subscriber count
 - Timeline graph - Our timeline graph answers the question of which platform has the highest subscriber count and which one has the highest rate of subscriber growth over the years. Netflix wins with the highest subscriber count although disney+ has experienced the highest growth rate in the last years.
- Pricing
 - A table with an overview of the pricing for each of the 5 platforms and the different package offerings. Hulu has the widest range of pricing options available and the cheapest monthly subscription payment.
- Overview of platform content
 - Platform movies vs TV show share - pie charts
 1. Prime and Netflix have far more content overall
 2. Hulu is the only one with a relatively equal distribution of movies and TV shows
 - PG Ratings distribution - pie charts
 1. Disney+ does not have any mature content on the platform.
 2. Prime, Netflix and HBO have similar distribution of PG Ratings
- Original Content
 - A venn diagram showing content overlap between the 5 platforms. Disney+ has the least overlap while Amazon Prime and Hulu have the most overlapping shows. Netflix has the highest number of content with top ratings.
 - Overview of Original content in the major platforms - Using Line graphs we showcase the most popular original shows in the platform based off their google search popularity
- Closing User Survey

Using the parameters below, we give a user recommendation of that platform maybe suitable for them

 - What's their monthly budget?
 - Do they want the platform Child friendly?

- Content type importance, do they prefer more movies, TV shows or original content?

Full written Data Story:

Our project is called winning the streaming war and compares different streaming platforms available to consumers today and suggest which one may be best for you. We've seen a dramatic increase in streaming platforms, but as consumers, the choices available to us can be hard to parse and choose.

So how much do you know about the different platforms available to you?

Hm, looks like not much, but no worries, scroll down to learn more!

First, it looks like currently has the most subscribers at 213M, with amazon prime close behind. Although disney+ only launched in 2019, it has the highest growth rate and now has 118M subscribers

In terms of pricing, hulu offers the most variety of subscription services, and disney+ is the only platform to offer a yearly subscription price.

Looking at the platform content, we see that prime and netflix offer the most content, while hulu provides an equal distribution of movies and TV shows. Disney+ is the only platform to not have any mature content, making it very kid-friendly

Now let's look at the overlap of content between platforms. We see that prime and hulu have a lot of overlapping entertainment, while disney+ has the least amount of overlap with other platforms.

Additionally, the popularity of the original content on the platform may matter to you.

While all these platforms have highly rated shows, we see that netflix originals go especially viral.

So, which one is the right streaming platform for you? Take our quiz to find out! Thank you!

Link to final project website:

<https://frogcloak.github.io/cs171-streaming-platforms/#0landing>

Link to final project video:

<https://www.youtube.com/watch?v=xc1MC2sTmg4>

