

Analysis of Twitch streamer success

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Twitch Data Set

- **source:** Kaggle Twitch Data Set
- The data set consists of the top 1000 streamers on twitch and their statistics barring actual income
- **Question:** Does stream time (*as in time that a streamer is online streaming*) have a significant effect on the amount of watch time that a streamer gets?



Figure 1: twitch logo

Question Methodology

- The reason this question is important is because it could show that if streamers put in the time streaming a lot and consistently then they could grow.
- If this is not the case, what other feature is effecting the growth and size of channels on the top 1000?
- Is it *pure luck* or a *meritocracy* for those on Twitch?

Top 10 chart

Table 1: Top 10 Twitch Streamers and Stream Time

Channel	Watch time(Minutes)	Stream time(minutes)
xQcOW	6196161750	215250
summit1g	6091677300	211845
Gaules	5644590915	515280
ESL_CSGO	3970318140	517740
Tfue	3671000070	123660

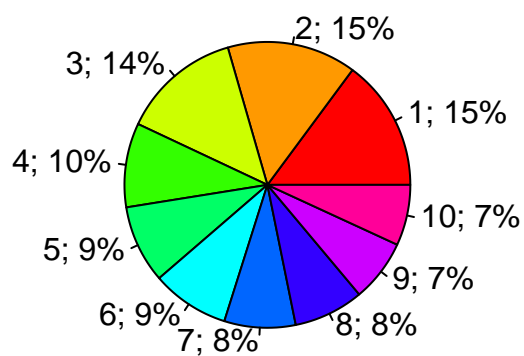
Top 10 (cont.)

Table 2: Top 10 Twitch Streamers and Stream Time

Channel	Watch time(Minutes)	Stream time(minutes)
Asmongold	3668799075	82260
NICKMERCs	3360675195	136275
Fextralife	3301867485	147885
loltyler1	2928356940	122490
Anomaly	2865429915	92880

Top 10 watch time

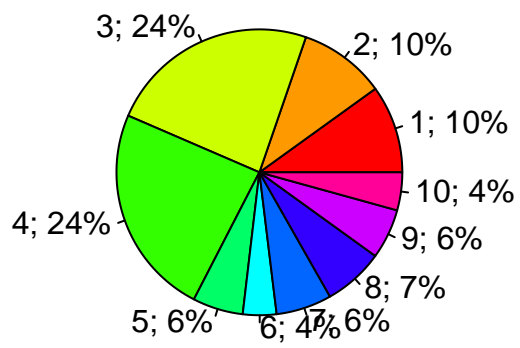
Watch Time



- 1: xQcOW
- 2: summit1g
- 3: Gaules
- 4: ESL_CSGO
- 5: Tfue
- 6: Asmongold
- 7: NICKMERCs
- 8: Fextralife
- 9: loltyler1
- 10: Anomaly

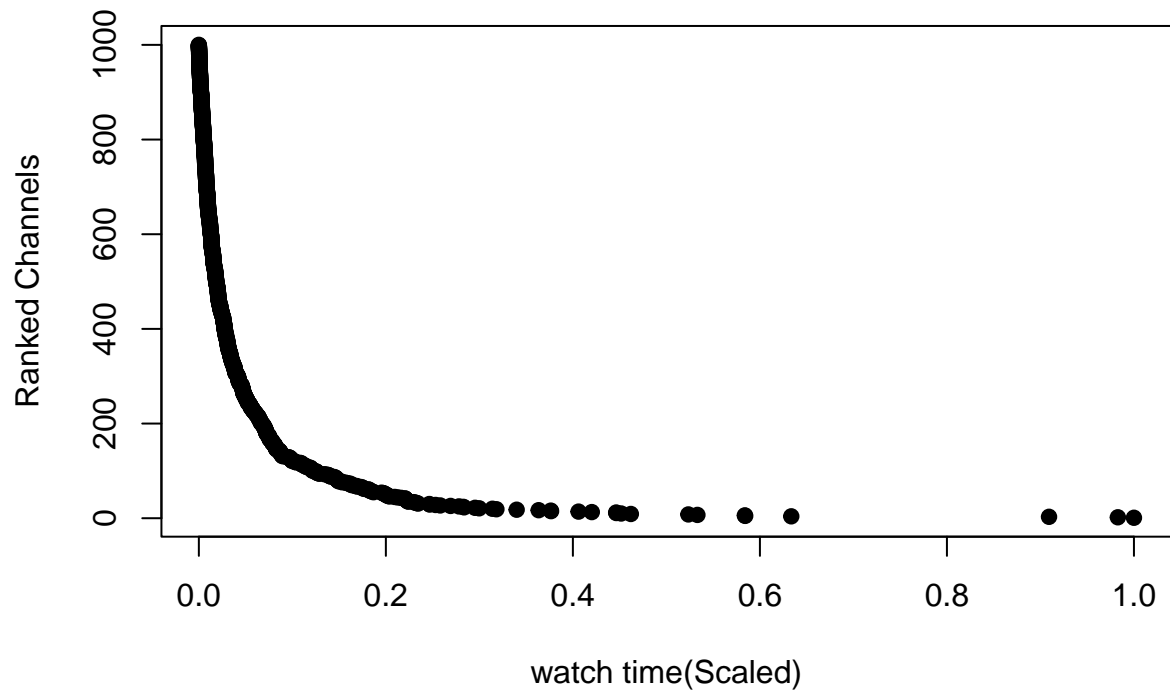
Top 10 time streamed

Time Streamed



- 1: xQcOW
- 2: summit1g
- 3: Gaules
- 4: ESL_CSGO
- 5: Tfue
- 6: Asmongold
- 7: NICKMERCS
- 8: Fextralife
- 9: loltyler1
- 10: Anomaly

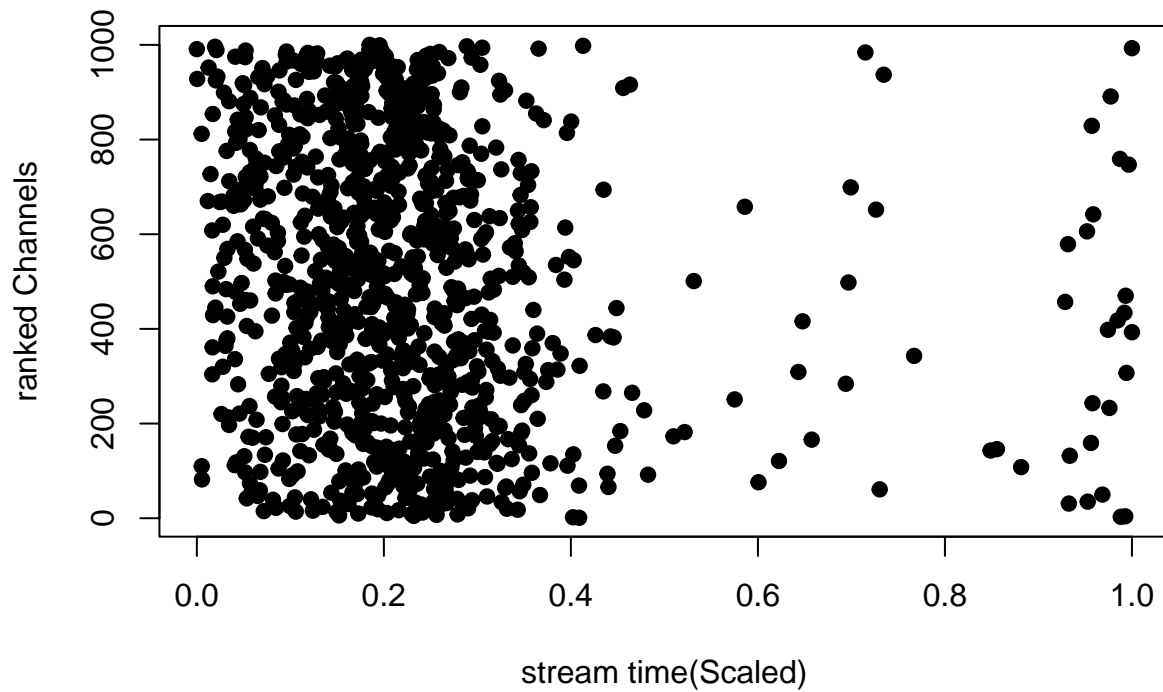
Distribution of watch time among top 1k



Differences in the top 1k

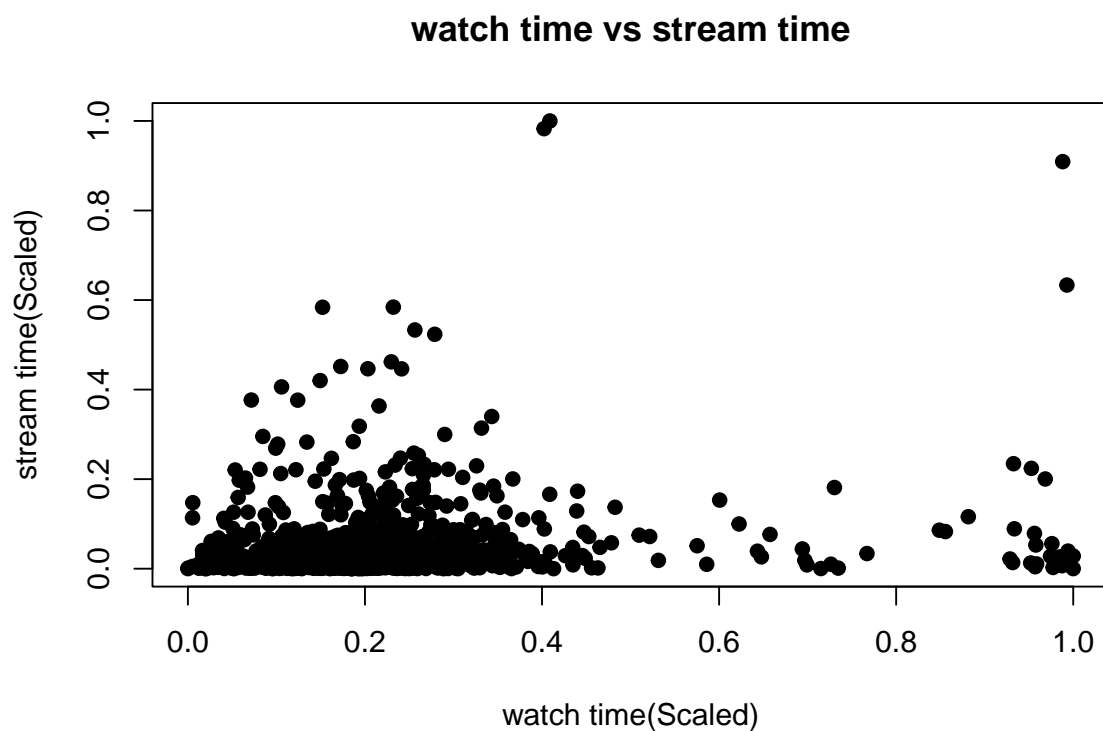
- The previous chart showed the major differences between watch time of the top 1k channels, but to put it in to better perspective allow us to look at #1 and #1000
- xQcOW (#1) has 51 times the amount of watch time that Remx (#1000) has
- But, he only has 2 times the stream time

Distribution of stream time among top 1k



Differences in the top 1k (cont)

- This new chart of stream times shows that there is a *bit* of a trend towards larger streamers streaming for longer but it's not very significant and as you can see below its not a good metric for predicting success



top 5 ratios

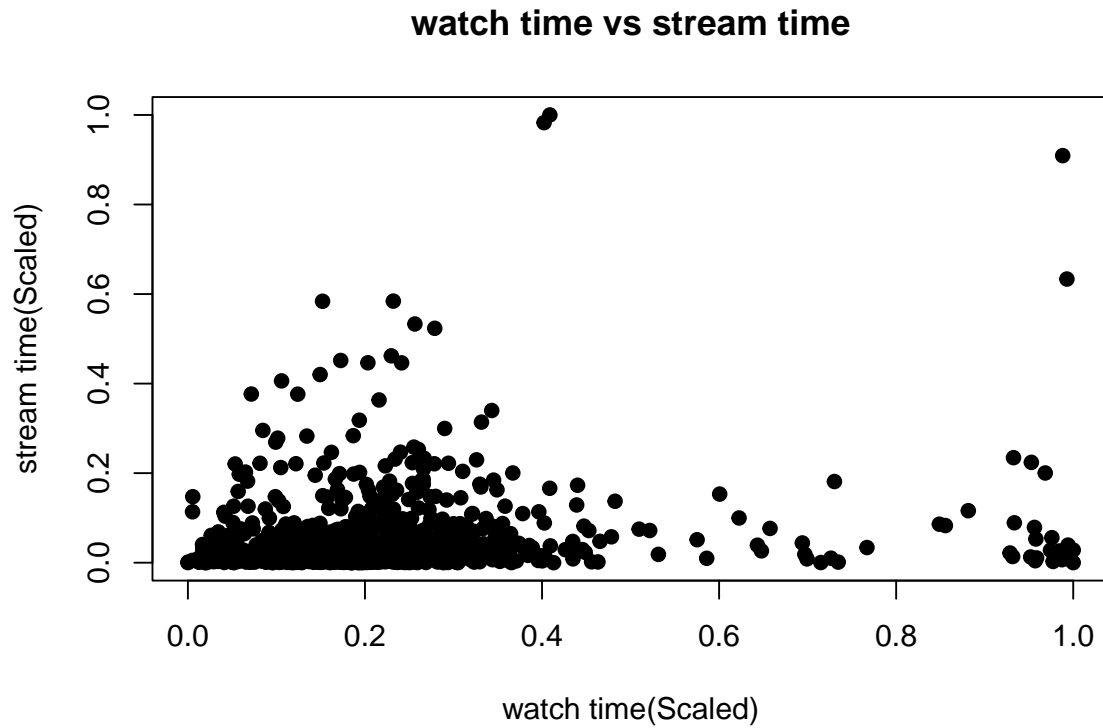
- In this column of watch time vs stream time its clear that the ratio varies wildly without any extra visualizations

Table 3: Top 10 Twitch Streamers w/ ratio (watch time/stream time)

Channel	ratio
xQcOW	28785.885
summit1g	28755.351
Gaules	10954.415
ESL_CSGO	7668.556
Tfue	29686.237

predictions

- This new chart of stream times shows that there is a *bit* of a trend towards larger streamers streaming for longer but it's not very significant and as you can see below its not a good metric for predicting success



In conclusion

- There is no significant correlation between watch time and time streamed
- Does that mean that the success of streamers is completely up to luck?
- No, but it could. The watch time seems to be a function of avg viewers and time streamed and that combination of the two varies from channel to channel
- each channel is different some are independent streamers that may stream a little but garner a large audience others are large organizations that can afford to stream all the time
- I think that if anything a more important question to ask would be if watch time should be considered a metric of success when something like income generated could be more tangible and involves amount of ads streamers run as well the income generated from stream time and large audiences
- so, if I could get data for income next time I would have to pull add frequency as well as these watch times to see if they correlate