### **Do Streams Sell?**

A Linear Regression by Nick Sherwin



## **Objective**



To understand the relationship between unit sales of a video game title and streaming metrics from Twitch.

## Methodology

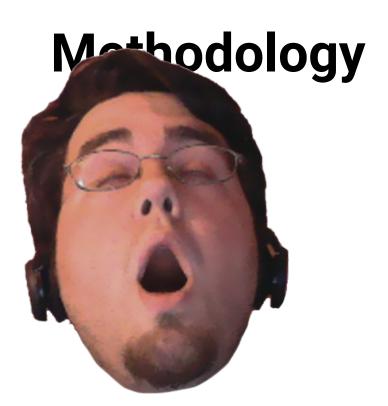


#### Data Sources & References:

- VGChartz
- SullyGnome

### Primary Tools:

Pandas, Beautiful Soup,
StatsModels, Scikit-learn



### Scope

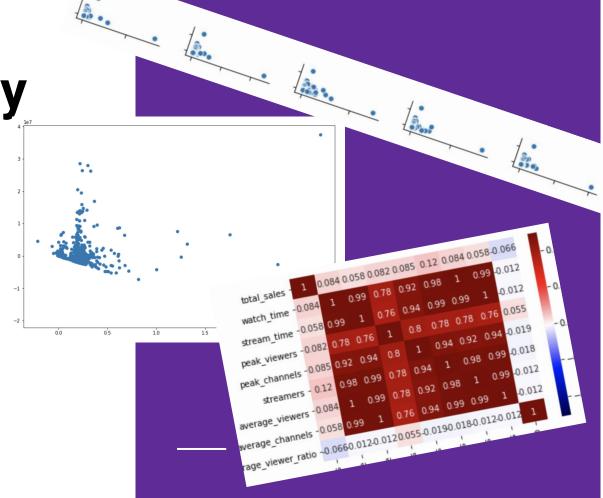
- 2016 Present
- Global Sales + Streams
- All Platforms

#### Caveats:

- Excluding Free-to-Play (F2P)
- Excluding Micro-Transactions
- Streams w/ Only 10+ Viewers

Preliminary Results





## **But Wait...**



### Peak\_Channels

• 447.76 2016 - 2018 (All Games)

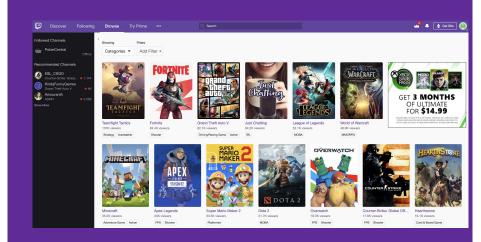
• 590.53 2016 - 2018 (Top Games)

• 1053.68 2018 (Top Games)

• 1542.79 2018 (Monthly)

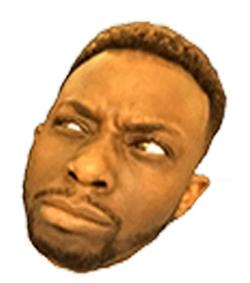
## Recommendation





- Platform Sponsorship
- Game Dev Dashboard
- Creator First

## **Future Study**



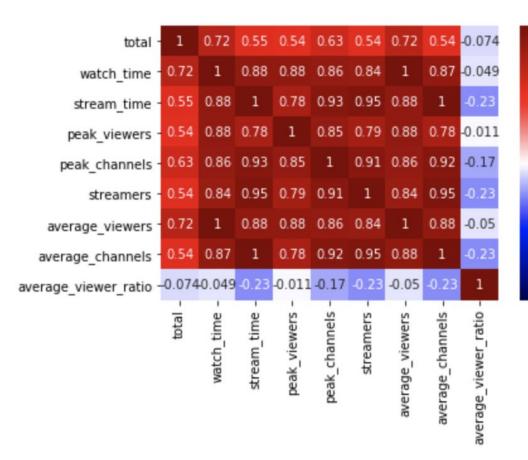
- Twitch API
- Build Dev Dashboard
- Chat in Stream

## **Questions?**

### Appendix: Monthly Model

Adjusted R2	.693
Peak Channels Coef	1542
Cross Validated Score	0.551
Test Score	.756

# Appendix: Monthly Correlation



- 0.8

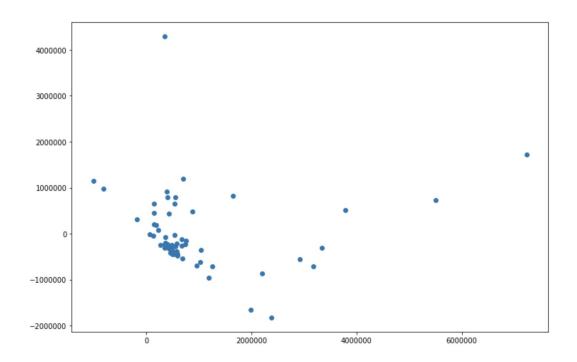
-0.4

-0.0

-0.4

- -0.8

# Appendix: Monthly Model





6.00

es ....

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6000 8000

60.00 W

(S)

# **Appendix: Target Transformation**

