

# ROCKBUSTER STEALTH LLC

A data-driven approach to  
streaming service launch strategy



# Summary of Rockbuster's Film Catalog DB



958 films

All in English

599 customers  
in 108 countries

15861 rentals  
spread across 100 days

3 rental rates:  
0.99 - 2.99 - 4.99

5 rental durations:  
from 3 to 7 days

## Spoiler Alert

Our customers don't follow this, their real rental durations go from 1 to 10 days. More on this later!

17 film categories, with balanced spread.



Sports : 73 films



Music : 51 films



5 MPAA ratings, also with balanced spread



PG-13 : 213 films

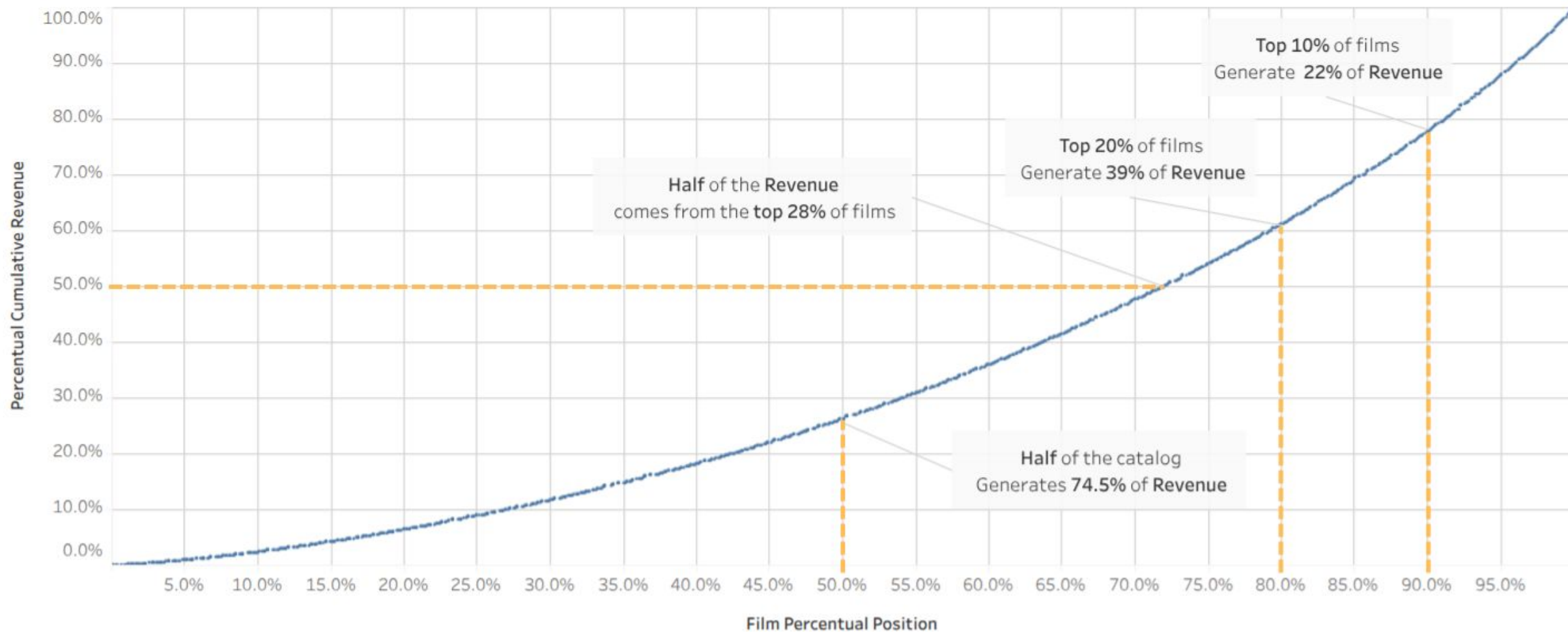
G : 171 films



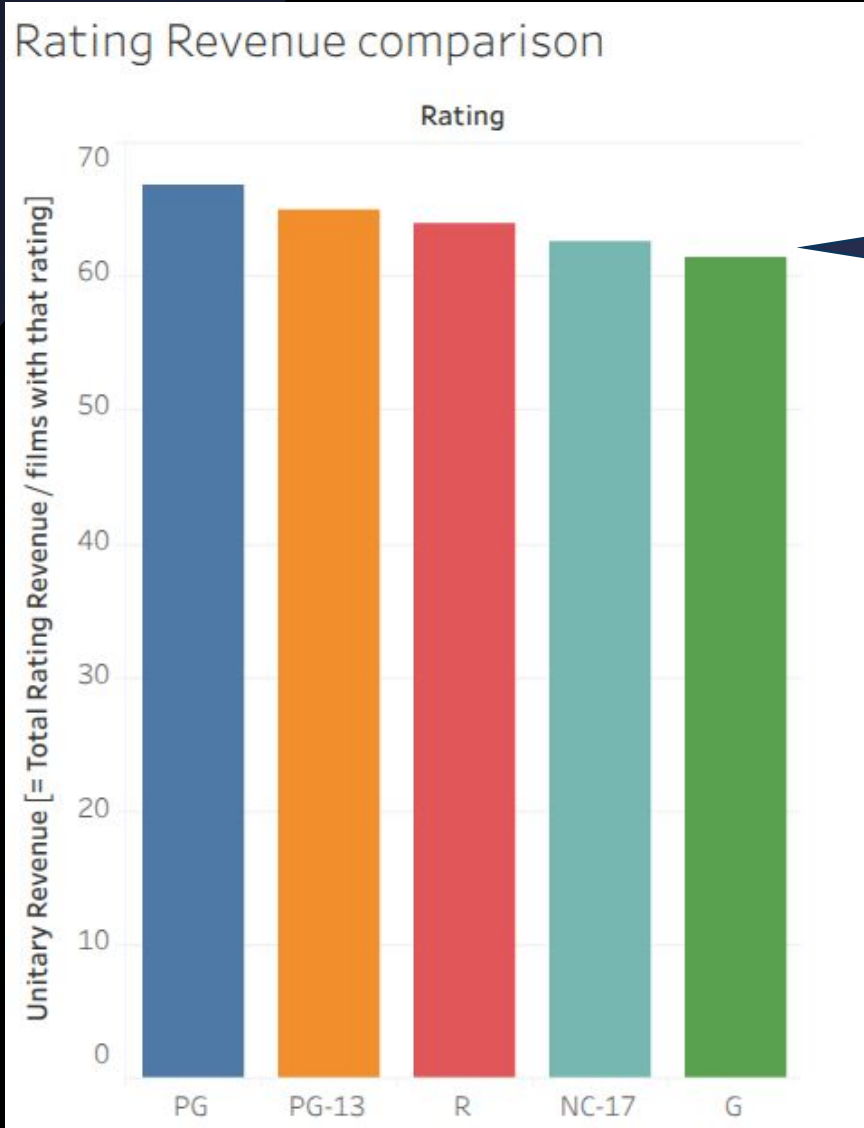
# Revenue Distribution



Revenue Cumulative Distribution across film catalog



# How ratings affect revenue

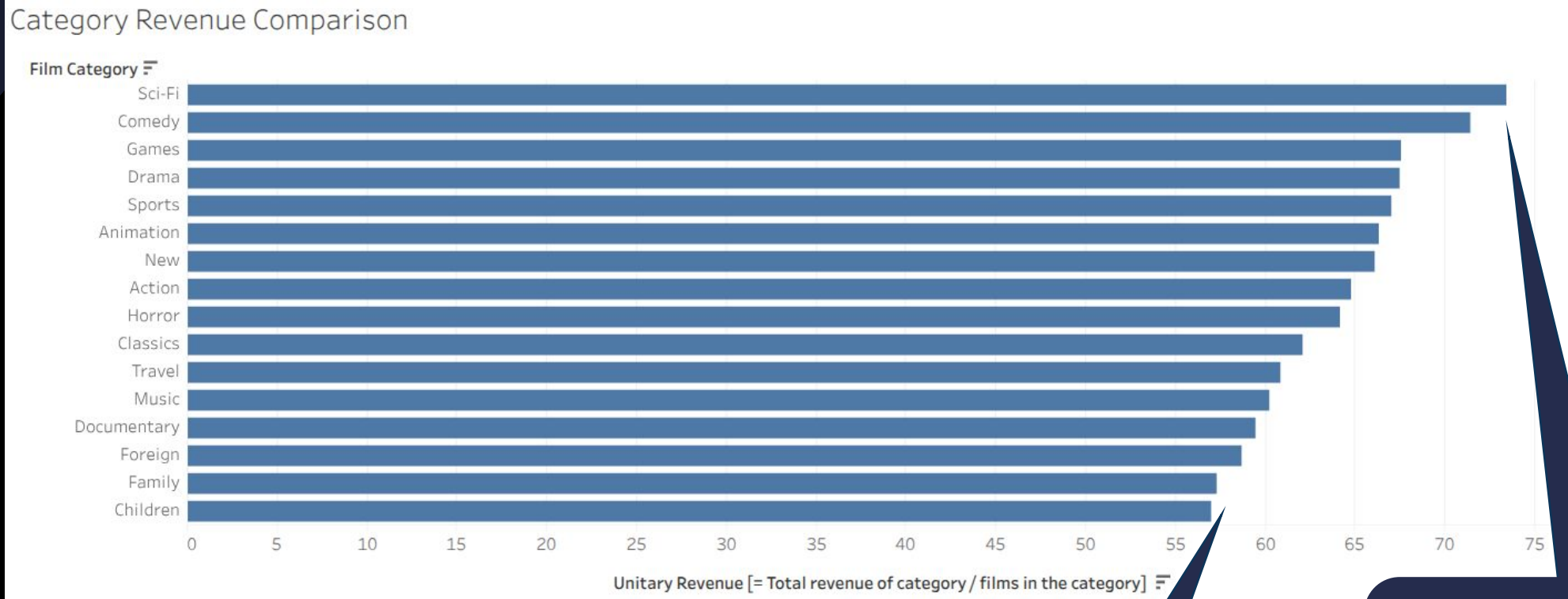


Comparing ratings measuring revenue per film:

- Best rating is PG with \$66.9/film
- Worst rating is G with \$61.5/film

But overall, there is no rating standing out, with a small spread between ratings

# How categories affect revenue

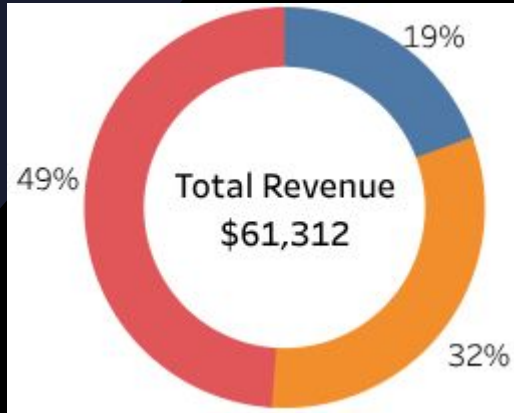


- The spread between maximum and minimum is \$16.4
- All categories perform reasonably balanced between each other.
- Top 2 categories may deserve special marketing focus.

Worst categories:  
Family (\$57.3/film)  
Children (\$57.1/film)

Best categories:  
Sci-Fi (\$73.5/film)  
Comedy (\$71.5/film)

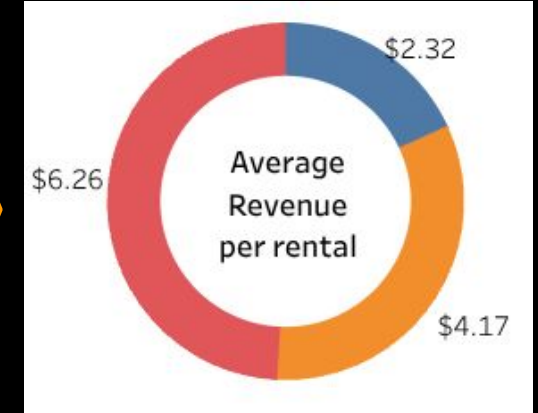
# Rental rates performance



Since the total of rentals for each rate is similar:

rental_rate	number_of_rentals
4.99	4782
2.99	4670
0.99	5140

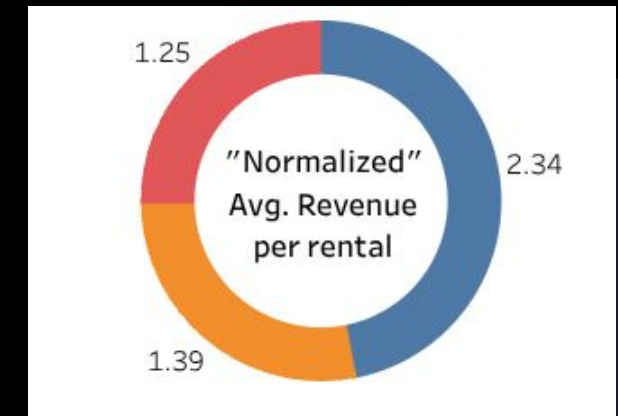
Avg. revenue per rental has almost the same distribution



But ..... Shouldn't we expect that \$4.99 would be 5 times better than \$0.99



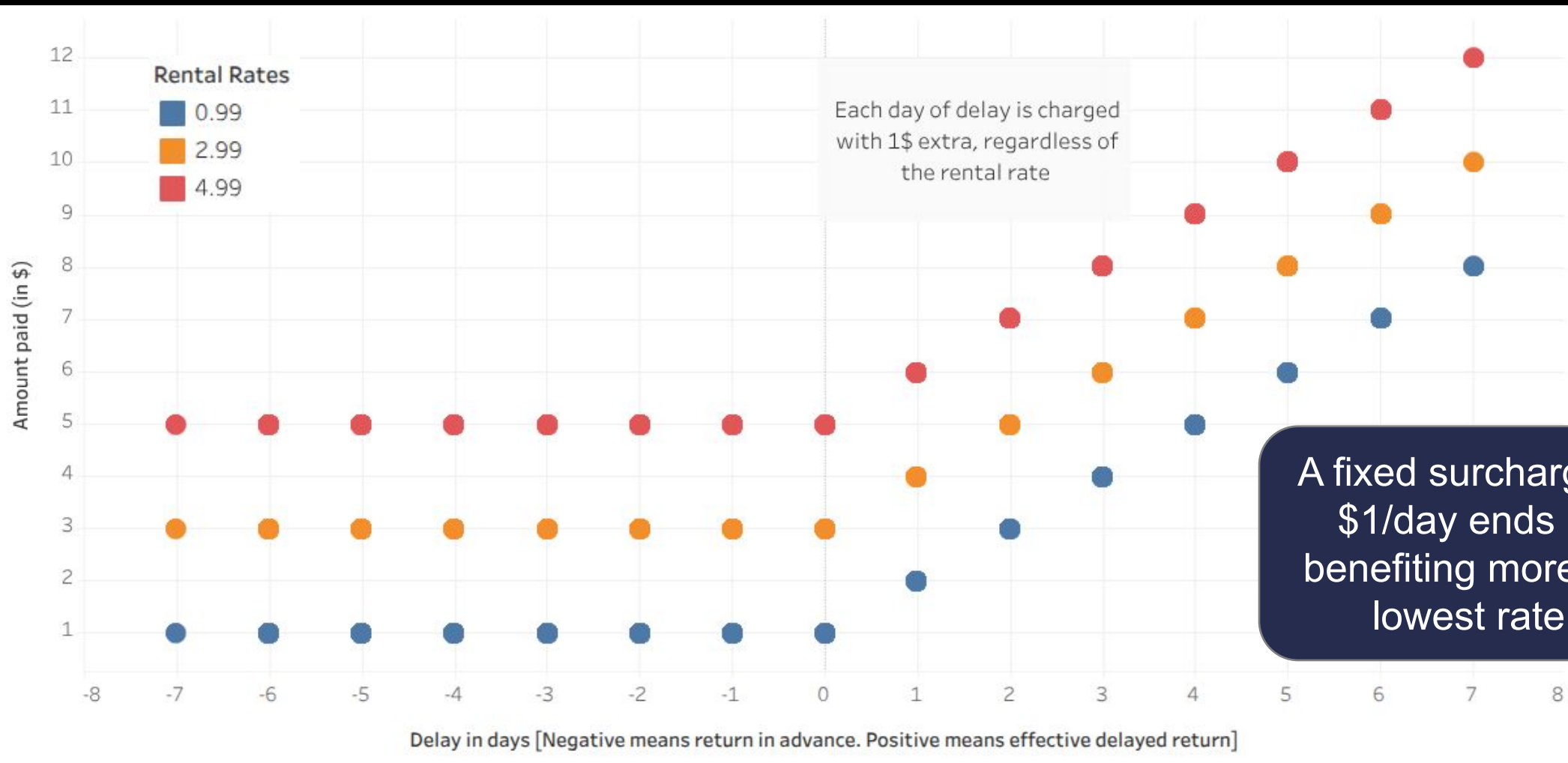
If we “normalize” the average revenue per rental, i.e.:  
**average revenue per rental / value of the rental rate itself**  
We can quickly see that \$0.99 is the one that performs better.



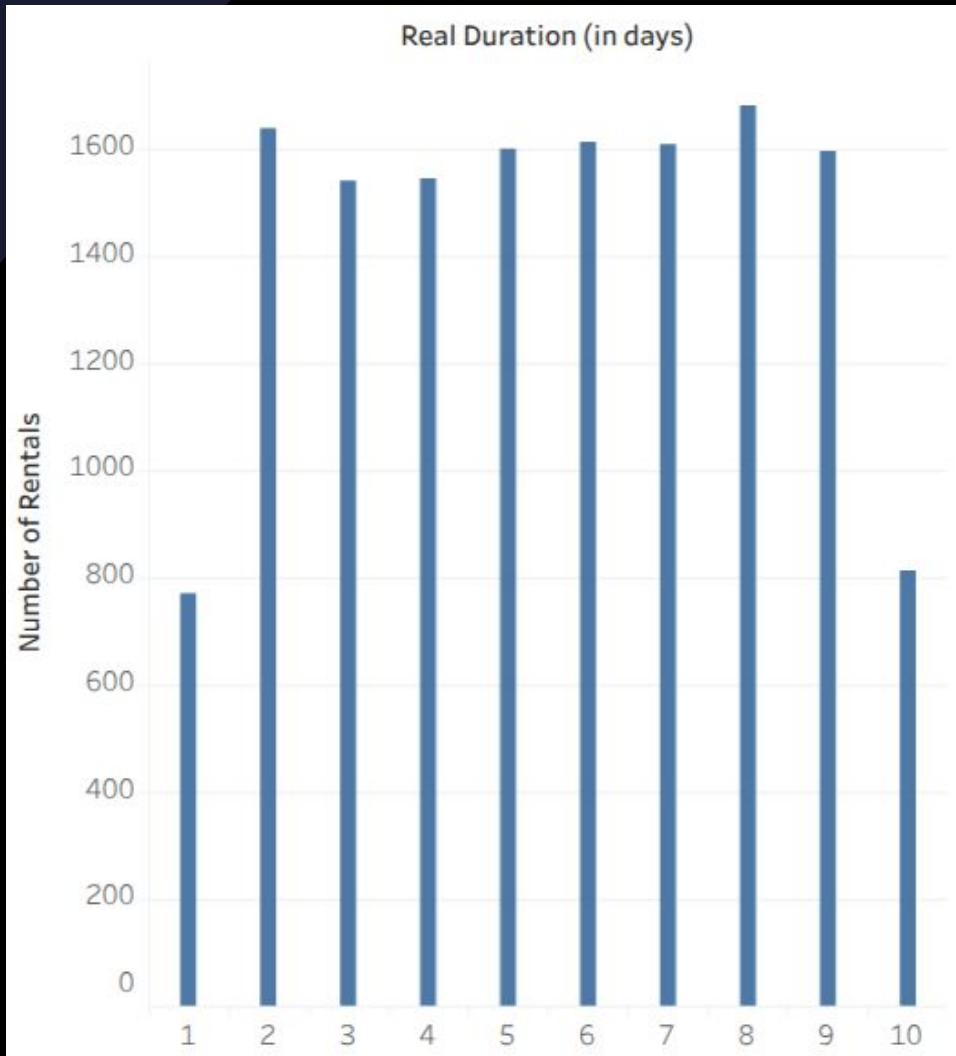
# Penalty Policy



The previous result was unexpected. Why does it happen?  
The secret lies in the penalty policy.



# Real rental durations - customers behaviour



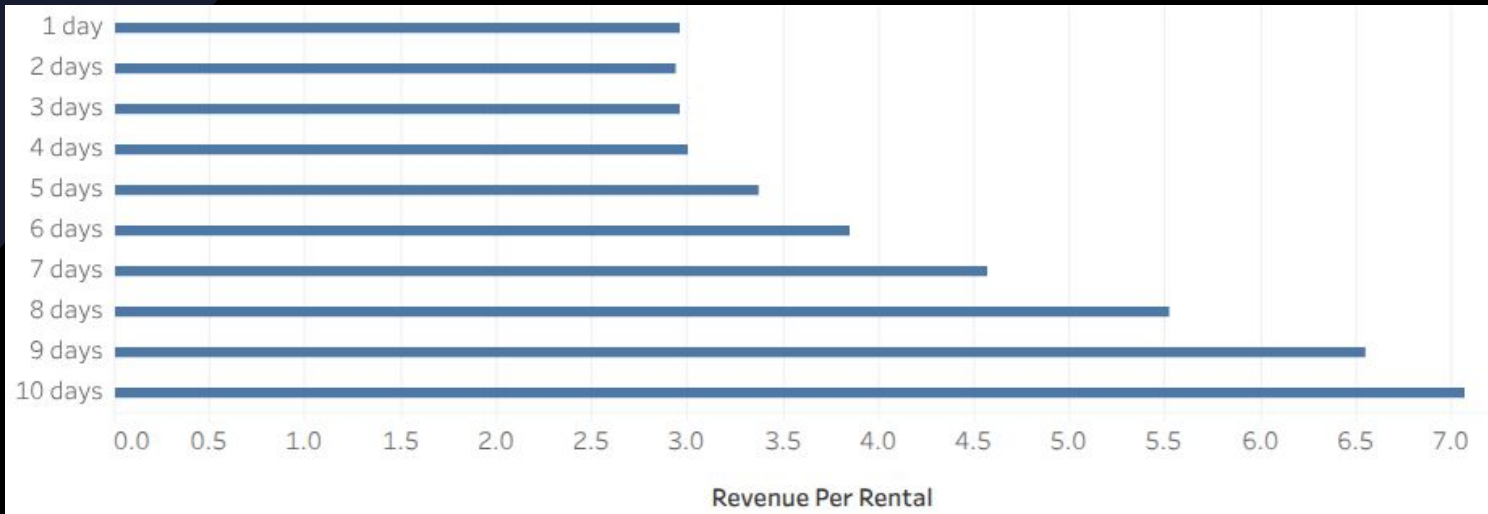
Real rental duration was defined as  
[rental return time – rental request time]  
rounded up in days.

We can observe that:

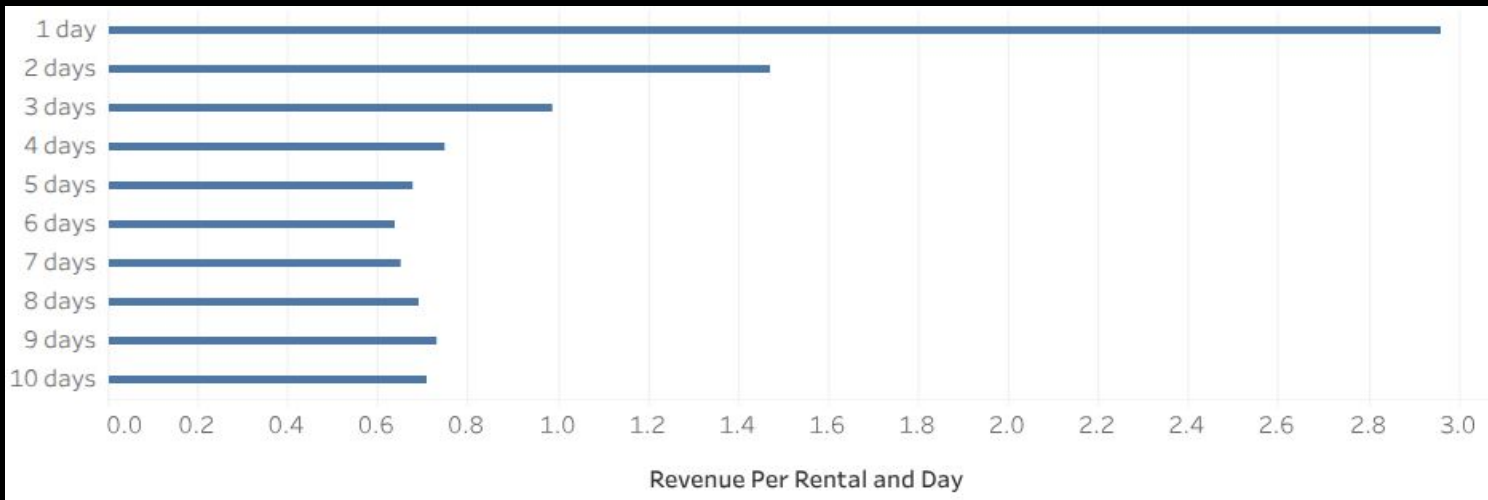
- Extreme values (1 and 10 days) have nearly half of rentals compared to all other durations;
- All other durations are well balanced, ranging from 1543 rentals (3 days) to 1682 rentals (8 days)



# Real rental durations - Revenue



The revenue per rental remains steady until 4 days length, with a value around \$3/rental, growing consistently after that until reaching \$7.1/rental in 10 days rentals.



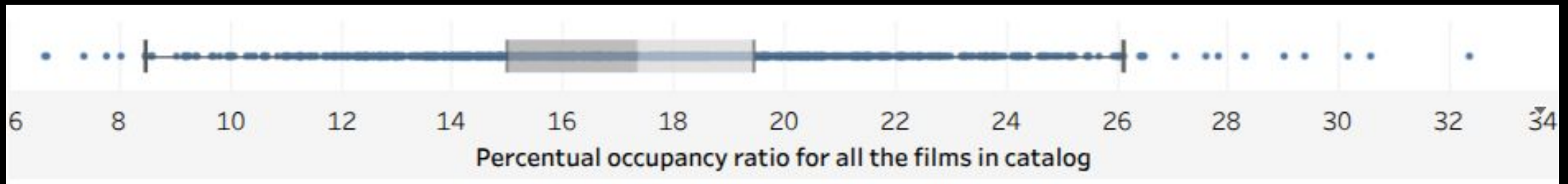
If we analyze together with the length of the rental, we have a totally different scenario. Best performing rentals are short duration ones (3 days or less), with 1 day rentals clearly standing out from all other durations.

# Occupancy Ratio of our Inventory



How much time each film copy is being rented by a customer or standing in our shelves?

To help answer this question, we defined a ratio, called **Occupancy Ratio (%)**, that is calculated as the **amount of time** where the copies of films are **out for rental** divided by the **total timespan** in analysis (approximately 100 days).



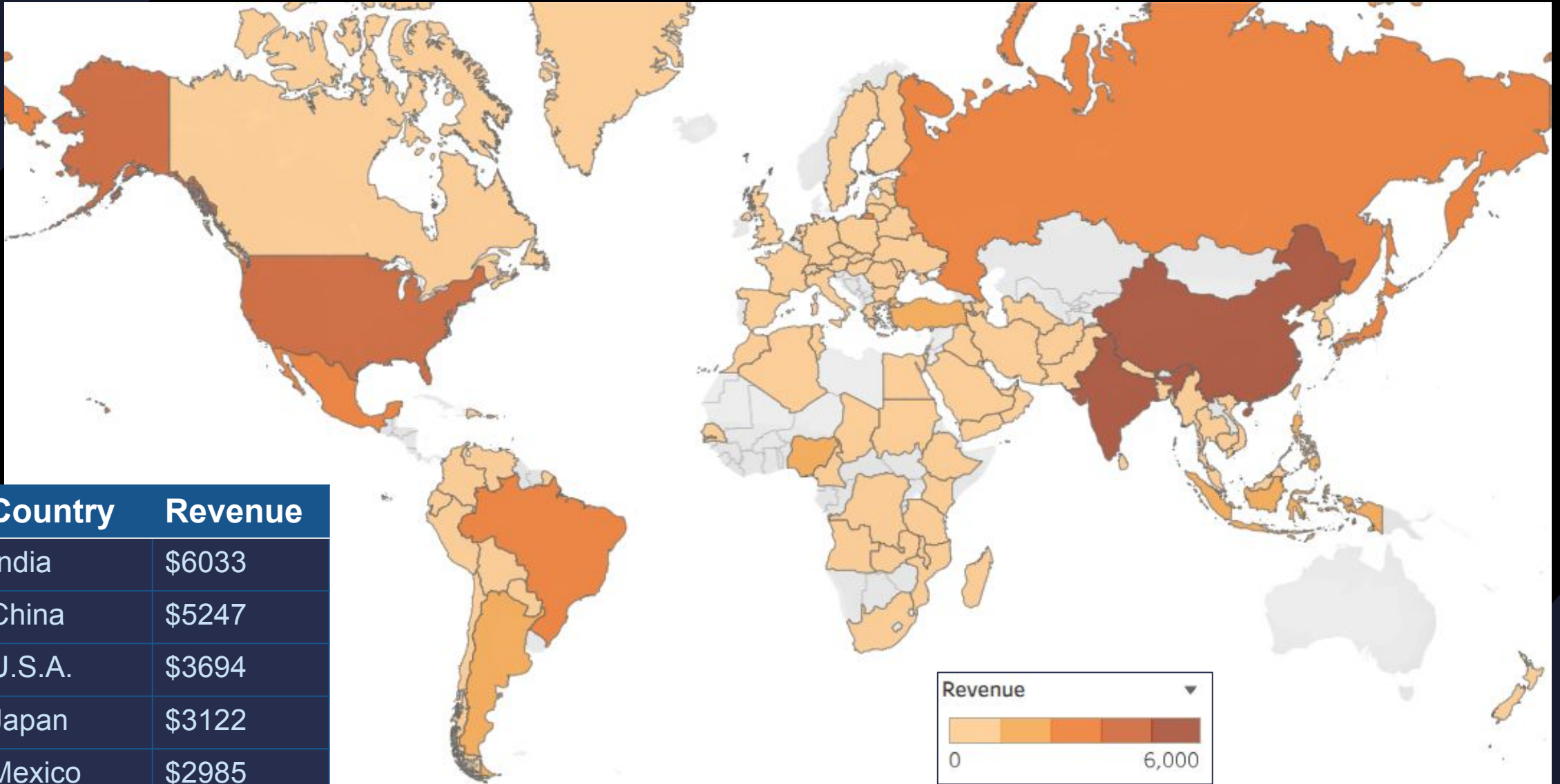
- Each blue dot of the plot above represent the occupancy ratio of a film. We could observe that:
- The **median** is **17.3%**, while the **maximum** and **minimum** values are respectively **32,4%** and **6,7%**
  - **Half of the films** (inside the middle gray box) are **between 15.0% and 19.5%**

**Improvements on occupancy ratio is paramount because it's additional revenue without additional cost (or alternatively cost reduction in fewer licenses, to obtain the same revenue)**

# Around the world : our customers



# Around the world : our revenue



Country	Revenue
India	\$6033
China	\$5247
U.S.A.	\$3694
Japan	\$3122
Mexico	\$2985

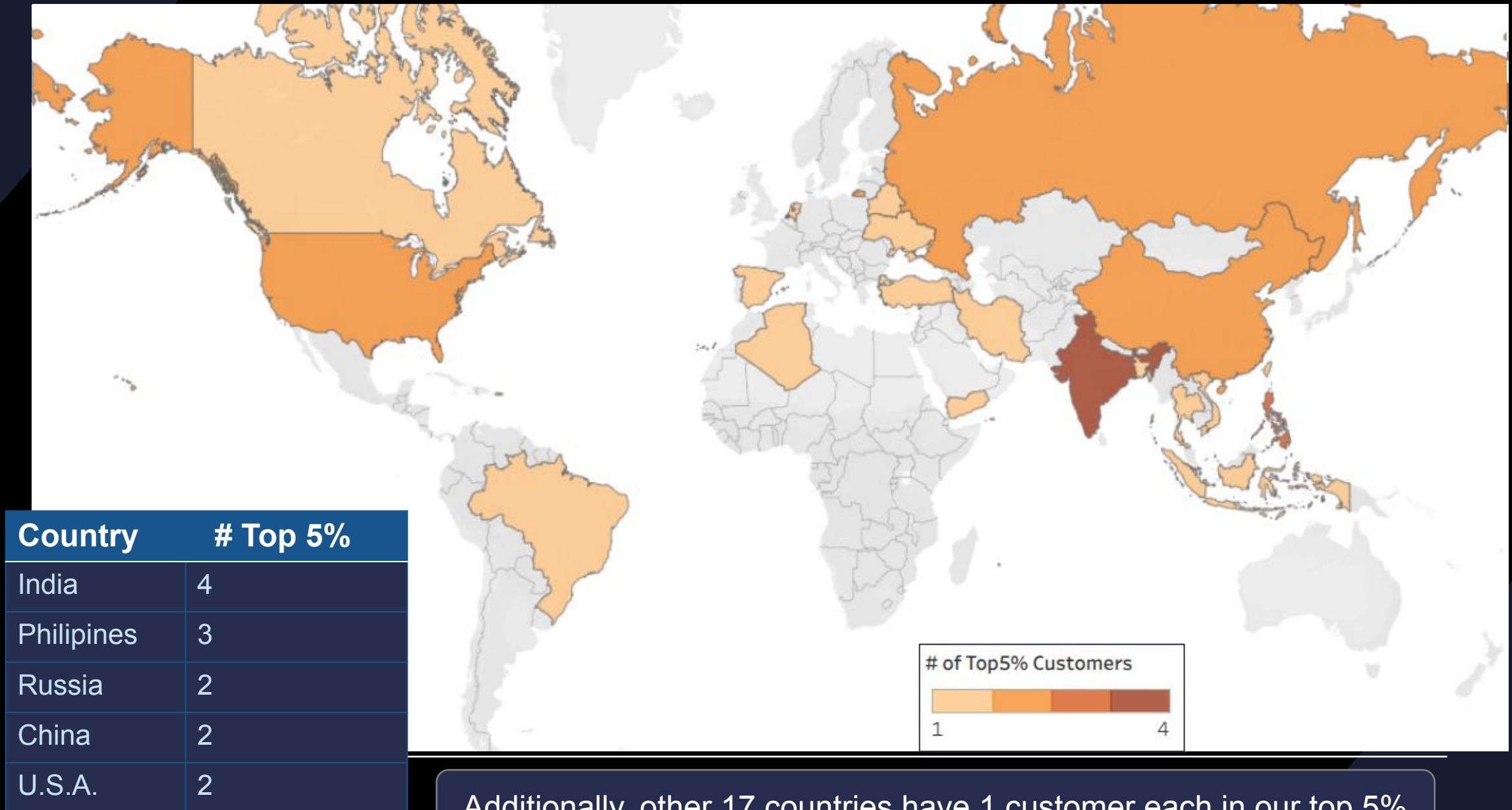


# Around the world : revenue per customer



**Note:** countries with one single customer were excluded from this view.

# Around the world : top 5% customers



Additionally, other 17 countries have 1 customer each in our top 5%

# Recommendations for video rental service launch



Remove variable rental duration concept and apply **one single duration** for all rentals.  
Recommended **48H**.

**Focus promotional efforts** on the top 30% of films.  
They represent more than half of the revenue.

**Eliminate** or review entirely **penalty policy**:

- Physical return will cease to exist. At best, an extension of digital rental could be in place
- As demonstrated, it makes us lose money in higher rental rate films

**Monitor** dynamically **occupancy ratio** to:

- decide when to purchase additional licenses for top requested films
- propose discounted rentals on films with lower occupancy ratio

Focus **geographical marketing efforts** in the top revenue countries  
as well as in the top revenue per customer

# Further investigations



Having access to real costs of licensing, a deeper study on profitability can be made.

With a fixed rental period proposed of 48H, it will make more sense to investigate the habits that our customers have in terms of weekdays for their film rentals.

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THANK YOU

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