



Implement business strategies from Youtube Analysis.

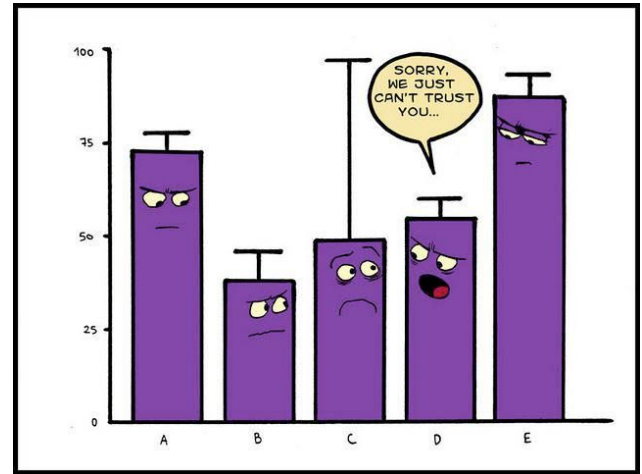
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First things first: Why Youtube?

Social Media is profitable to both content producers and viewers.

Use technical data to develop action items for product marketing.



About the data:

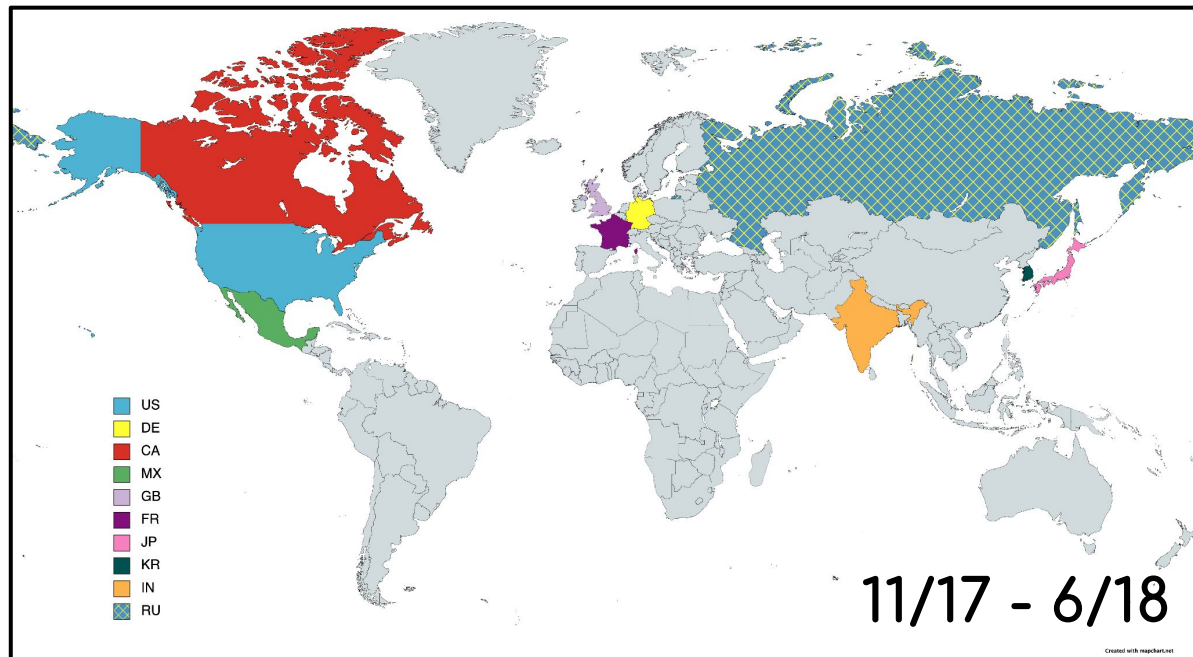
What's trending on Youtube? (by [Kaggle](#))

11 datasets.

10 countries.

8 months.

~400K observations.



Key Objectives

Effective Marketing

Which region will provide the highest ROI for online advertisements?

What marketing tactic is most effective for consumers with different interests?

Energy Consumption

When are consumers more likely to shop online for products they don't need?

What infrastructure requisites are necessary for data center upkeep?

Exploratory Analysis

How do we use viral data to predict consumer buying trends?

Which products are consumers are likely to buy based on their interests?

One last thing...

I'll be using the word *consumer* a lot.

Viewers are consumers.

Content is the product.

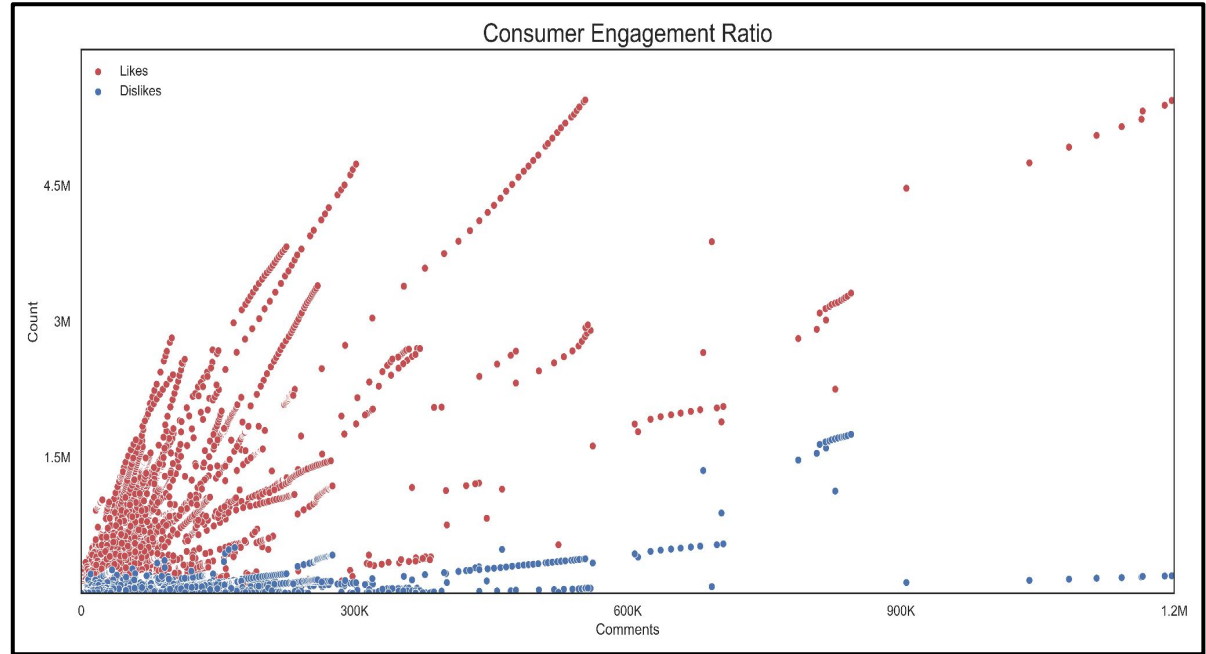
Digital currency is ~~bitcoin~~ time.



Effective Marketing: The opinions of the few.

We can see how often consumers will interact with the products.

Consumers are 20x more vocal for products they like vs. dislike. (*median*)

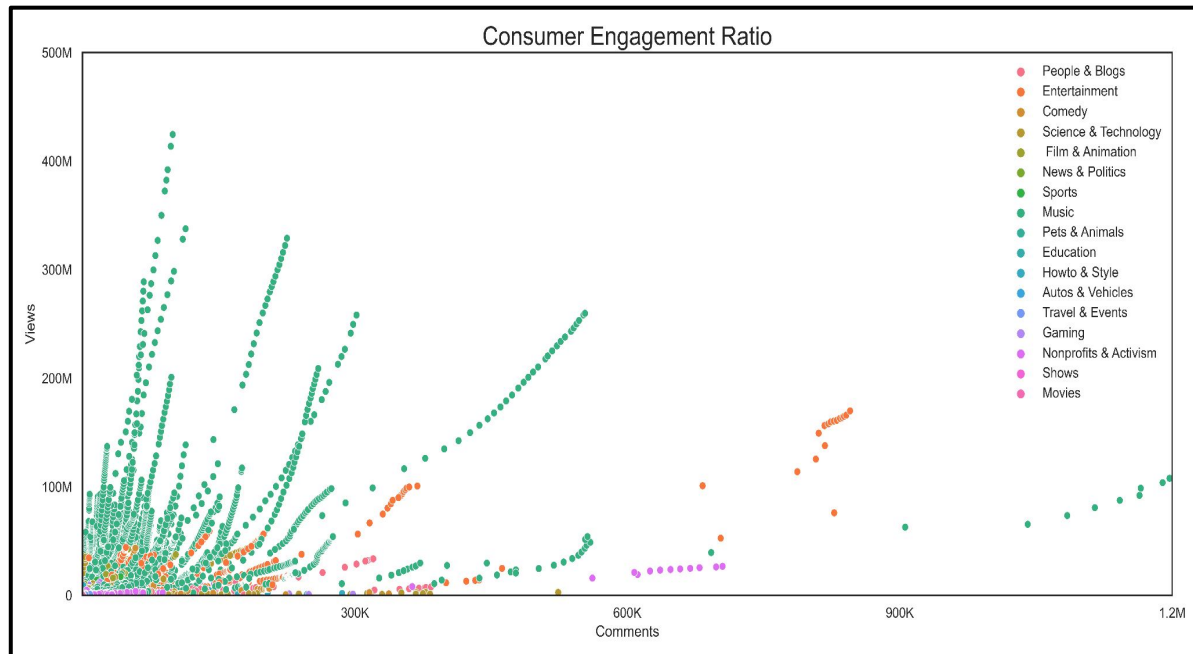


Effective Marketing:

The voices that power the product.

The ratio here differ as it quantifies the engagement views and categories

The engagement-product ratio is around 0.05%
- 5% of which are dislikes -



Fun fact:

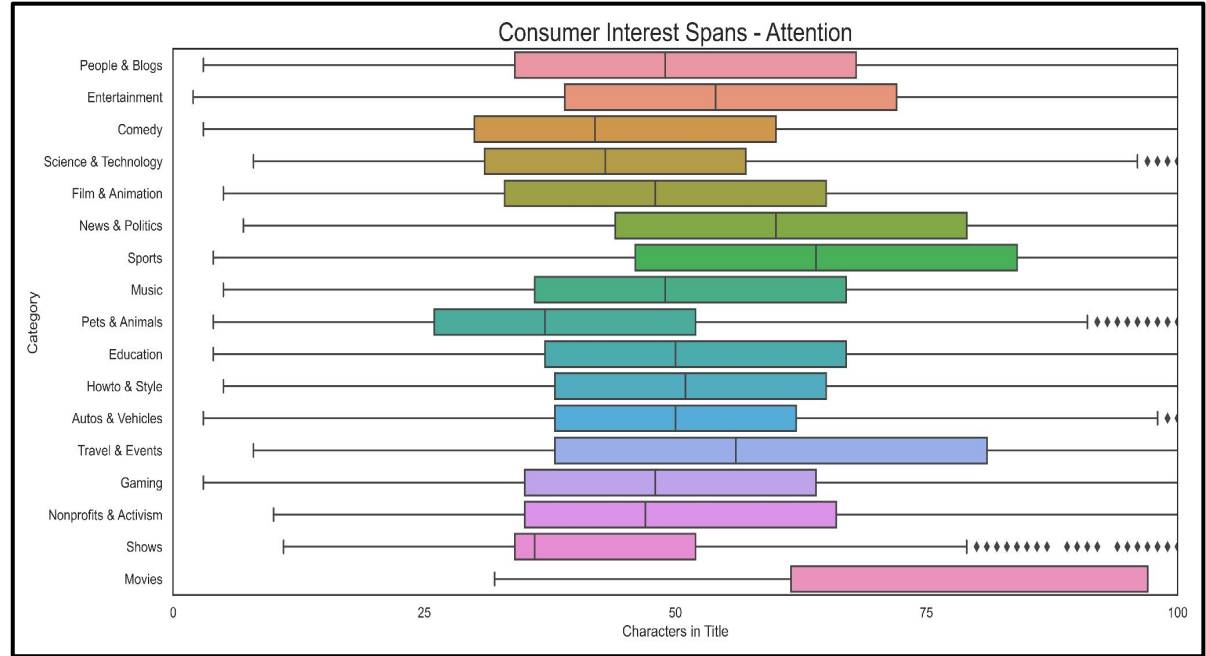
Good product engagement rates vary between 0.04-16%, depending on the platform/product.

Effective Marketing:

The instant gratification dilemma.

Steal the consumer's attention by analyzing their interest spans.

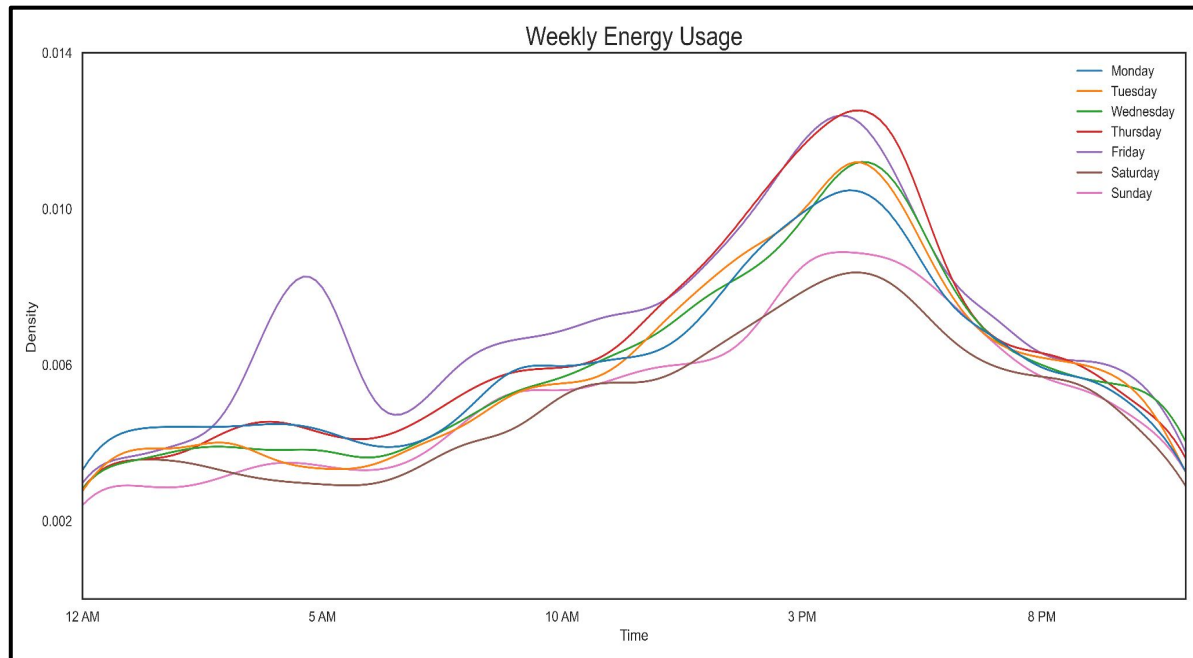
Consumers have higher attention spans for Movies than TV shows.



Energy Consumption: Keep calm and carry on.

Consumers watching trending videos are more likely to be in a *relaxed* state

Ads are only as effective as its impact. Calm the consumer to boost.



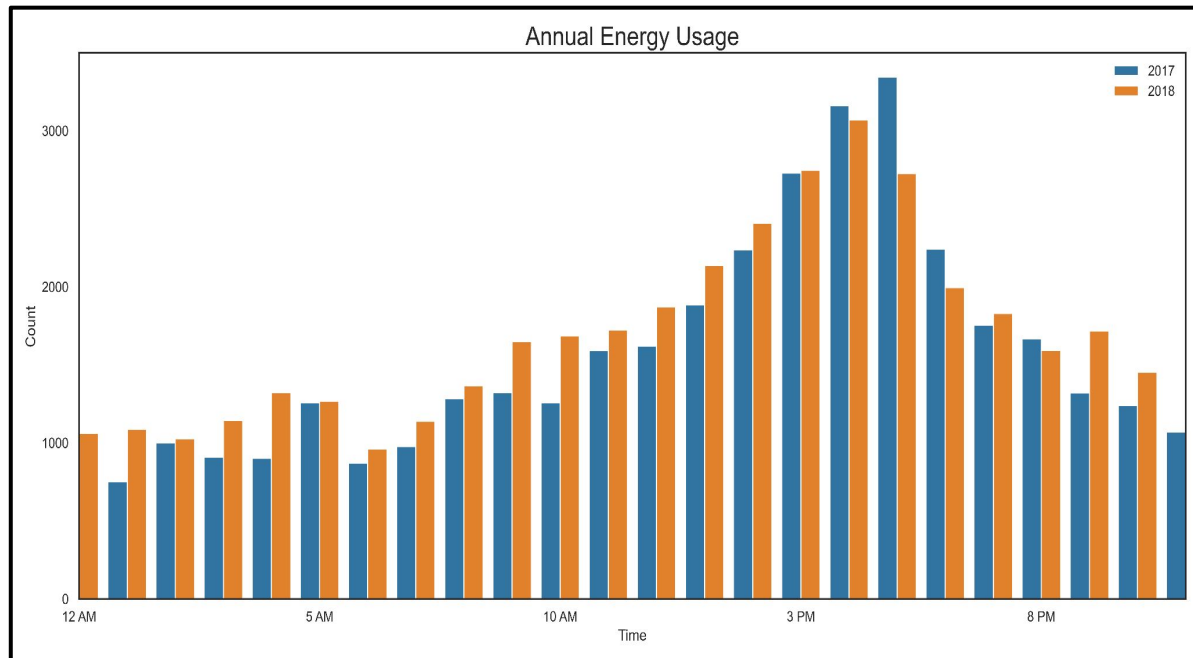
Fun fact:

Relaxed consumers are 12% more likely to spend money on products.

Energy Consumption: Let's use data to make data.

In 2018, energy consumption is higher from 10PM - 2AM

Consumers have less distractions as they *wind-down* (relaxed).



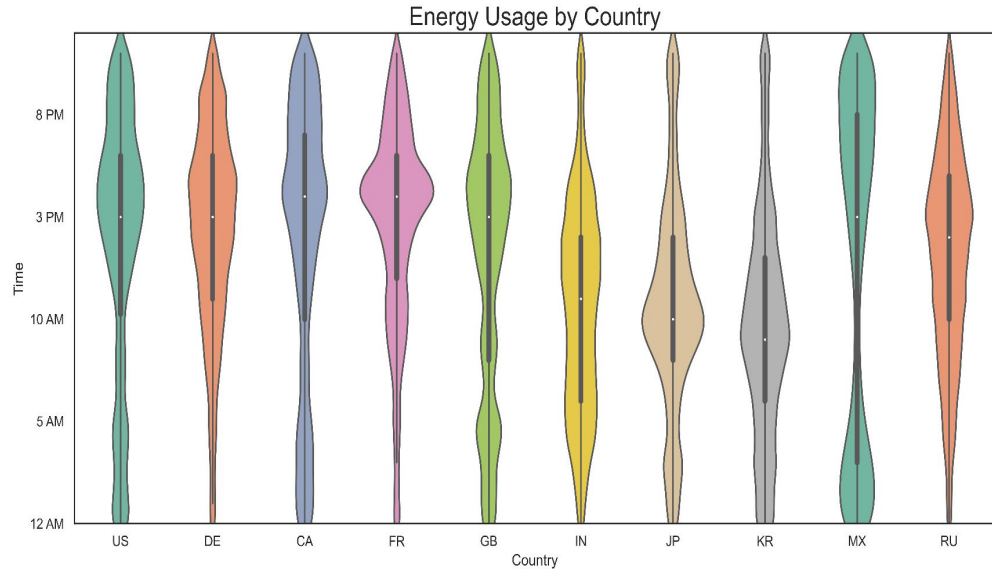
** Data is normalized to reflect the number of months

Fun fact:
Consumer engagement behavior is more influential at night.

Energy Consumption: The music is nothing if the audience is deaf.

Know your target audience. Their buying habits vary globally.

Companies can charge a higher cost for ads running within this time window.

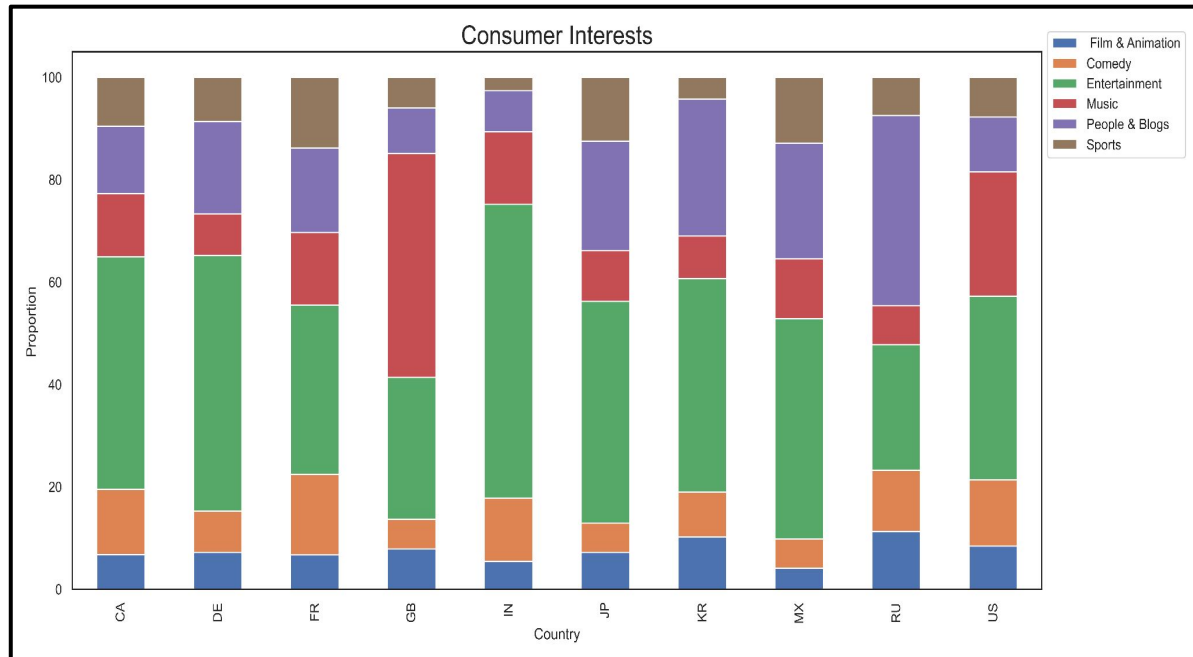


Exploratory Analysis:

In search for the perfect element.

Analyzing regional interests can help predict consumer demand.

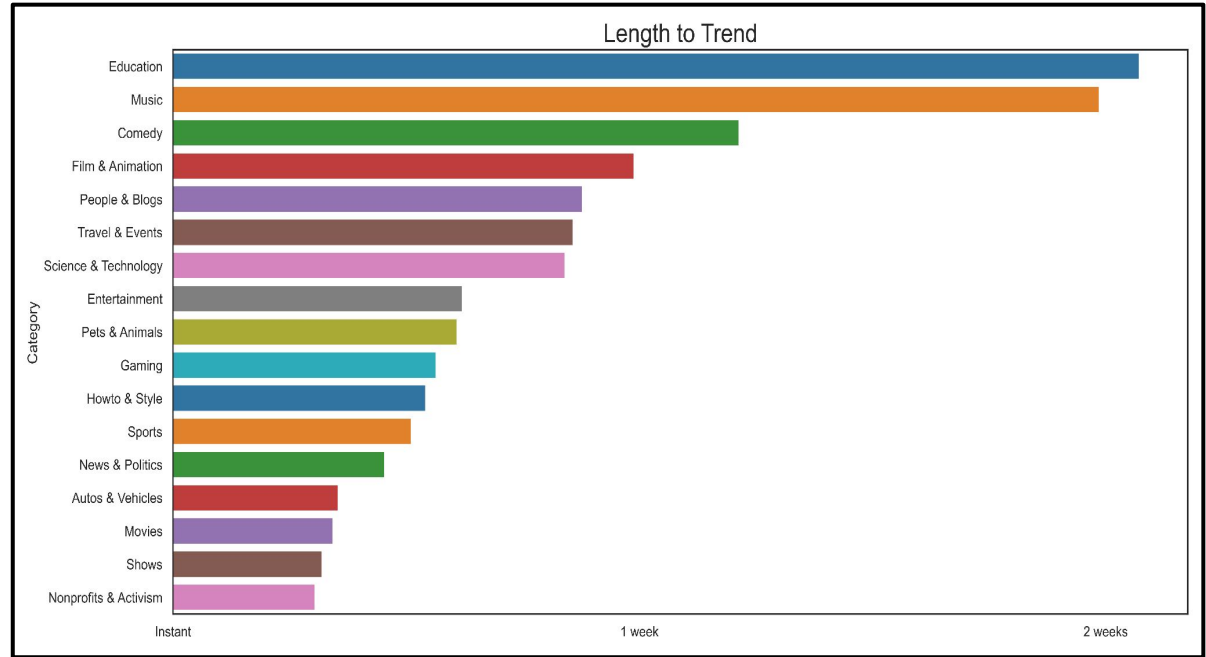
eg. what's the demand for movies / sports, comedy shows?



Exploratory Analysis: The power of *word-of-mouth*.

Information travel
differently based on
consumer interests

*Products in filmmaking and
sports are talked about
more than music products.*



*Fun fact:
Consumers are more likely to purchase products recommended by word-of-mouth.*

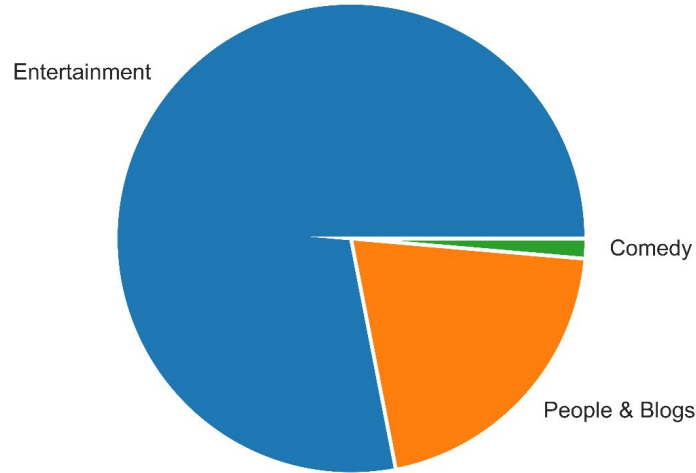
Exploratory Analysis:

Deconstructing consumer spending habits.

Word-of-mouth travel most
dominantly in the
Entertainment sector

Companies can help boost
sales by partnering with
people in entertainment.

Affiliate Marketing Partners: Amazon



Scraped ~10K links

Extracted category of
each product

50% electronics,
17% home goods,
8% Beauty,
8% DIY

Fun fact:
Technology is a top performer in affiliate marketing.

Conclusion:

That's all, folks!

Effective Marketing

WHAT

Analyze consumer interactions to understand ***what*** they want.

Energy Consumption

WHEN

Evaluate ***when*** the consumer is most likely to purchase a specific product.

Exploratory Analysis

HOW

Optimize ***how*** ROI and product margin can increase annually.

If I had more time...

- Find other datasets/observations to support trend hypothesis. See usage impact of CoVID-19.
- Scrape more than just Amazon links: find out which categories are most advertised.
- Compare trends from parallel social media platforms, including TikTok and Instagram.

What impact did CoVID have in consumer demand?

What's the dominating marketplace platform for each category?

How do interests vary across platforms and age groups?