

Butter Flutter: How Butter Consumption is Related to the Length of Mark Rober's YouTube Videos

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ABSTRACT

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In this paper, we investigate the curious correlation between butter consumption and the total duration of educational engineering content created by the renowned YouTuber, Mark Rober. Armed with spreadsheets and puns to churn out, we utilized data from the USDA to analyze butter consumption trends. Simultaneously, we meticulously scrutinized the length of Mark Rober's videos from 2011 to 2021. Our findings revealed a strikingly high correlation coefficient of 0.9111904 between these seemingly unrelated variables, prompting even the most hardened skeptics to utter, "What in tarnation?" As we dived deeper into the data, the buttery smooth relationship between butter intake and video length became more apparent, like a slab of butter on a hot griddle. Our statistical analysis yielded a p-value of less than 0.01, indicating a robust association. This discovery left us feeling like we had struck gold - or rather, churned butter. In conclusion, our research infers a noteworthy linkage between butter consumption and the extended duration of Mark Rober's captivating YouTube demonstrations. While the exact mechanism behind this correlation remains a mystery, these findings encourage further exploration and perhaps suggest that "butter up" Mark Rober to extend your YouTube viewing pleasure.

Keywords:

butter consumption, Mark Rober, YouTube videos, USDA data, engineering content, correlation, statistical analysis, p-value, association, butter intake, video length, data analysis, butter consumption trends

I. Introduction

Introduction

Butter, a staple in many households and a beloved companion to many culinary creations, has long been a subject of fascination and scrutiny. Its creamy richness adds flavor and flair to dishes, but could it also have a hidden influence on unexpected aspects of our lives? As researchers, we are often urged to "spread our findings," but in this case, we aimed to "spread some butter," as we delved into the enigmatic relationship between butter consumption and the total length of Mark Rober's YouTube videos. It's a tale as old as thyme!

You might wonder, "What does butter have to do with Mark Rober's engineering marvels?" Well, hold onto your margarine, because our investigation has uncovered a correlation that is as surprising as finding a tiny, butter-themed hat atop a stick of butter. As we embarked on this study, we couldn't help but take each data point with a grain of salt – or better yet, a pat of butter – as we navigated a sea of spreadsheets and scrambled for correlations.

Now, before we get too spread out, let's "whisk" into the specifics. Our curiosity was piqued by the notion that the length of Mark Rober's videos might be influenced by a factor as seemingly unrelated as butter consumption. It's almost as if the universe conspired to butter us up with this puzzling yet intriguing anomaly.

With our research, we aimed to provide empirical evidence to support the hypothesis that butter consumption, much like a well-whipped batter, has a hand in determining the length of educational content provided by engineering enthusiasts such as Mark Rober. Who would have

thought that butter, often found on breakfast tables, would have implications for what's on our screens?

So, grab a slice of toast, slather on the butter, and let's embark on a scientific journey that will have us pondering, "Was it the butter or the batter that influenced Mark Rober's video length?" It's a question that might just spread like wildfire, much like melted butter on a hot griddle.

II. Literature Review

Numerous scholarly works have delved into the peculiar relationships between seemingly disparate variables. In "Butterology: A Spread to the Senses," Smith et al. investigate the sensory experience of butter consumption and its potential impact on cognitive processes. Similarly, Doe examines the cultural significance of butter in "Butter Chronicles: A Creamy Culinary Trail," shedding light on the historical and socio-economic factors shaping butter consumption patterns.

However, as we searched for literature addressing the entwinement of butter consumption and YouTube video lengths, we found ourselves venturing into uncharted territories reminiscent of a butter churner navigating uncharted cream. The correlation we sought was as elusive as finding the last pat of butter in the fridge – until we stumbled upon "The Bountiful Butter Effect: Unearthing Unlikely Links" by Jones, which unexpectedly touched upon the influence of dairy products on creative output.

Transitioning from scholarly inquiries to the culinary realm, culinary aficionados have pondered the implications of butter beyond the kitchen. "The Art of Butter: Beyond Baking" by B. Logan

provides insights into the whimsical world of butter sculptures and their potential impact on artistic expression. This leaves us asking: could Mark Rober's creativity be similarly influenced?

In the land of fiction, one cannot overlook the classic work of literature, "The Butterfly Effect" by R. Ashton. Though not directly related to our research topic, the novel's exploration of the ripple effects of small actions resonates with our quest to unravel the mysteries of butter's influence. On a lighter note, the comical novel "The Land of Margarine" by P. Maple introduces a whimsical world where butter substitutes reign supreme, offering a humorous take on the omnipresence of butter-related phenomena.

Through the digital grapevine, social media posts have surfaced, hinting at the tacit association between butter consumption and the duration of Mark Rober's YouTube videos. One influencer humorously quipped, "Perhaps Mark Rober is buttering us up with lengthy videos to spread awareness about dairy farmers!" This casual remark encapsulates the lighthearted speculation swirling around our research topic.

In the midst of uncovering the comical and capricious connections between butter consumption and Mark Rober's YouTube video durations, our academic pursuits have taken a delightfully unexpected turn. The but-tery path we have embarked upon has not only enriched our academic endeavors but also infused a generous dollop of whimsy into our research.

III. Methodology

METHODOLOGY

Data Collection

To conduct this utterly fascinating investigation, we first hopped aboard the data train. Our research team scoured various sources, most notably the USDA's National Agricultural Statistics Service, to obtain comprehensive butter consumption data from 2011 to 2021. Strap in, because sifting through butter consumption records can be quite the slippery endeavor - just like trying to spread cold butter on toast! We meticulously gathered data on butter production, export/import volumes, and per capita consumption across different regions, all while resisting the urge to break into a spontaneous rendition of "Butter Tubs Are Here Again" for fear of dairy misadventures.

Simultaneously, we embarked on a YouTube binge that would make any avid viewer envious, documenting every single video published by the illustrious Mark Rober during the aforementioned time frame. Admittedly, at times, we felt a bit like private investigators on the tail of buttery suspects, with spreadsheets for clues and statistical analysis at the ready. Picture us as data detectives, embarking on a quest that was a perfect match for our butter-themed moniker - the "Spreadsheet Sleuths."

Data Analysis

Once we had assembled our copious amounts of butter consumption statistics and Mark Rober's video lengths, it was time to whisk through the sea of data and extract the creamy insights hidden within. Utilizing statistical software, we calculated descriptive statistics for butter consumption and video length distributions, observing patterns that made us wonder if these data points were dancing the "Buttercup Samba."

As we delved deeper, we applied correlation analyses to ascertain the strength and significance of the relationship between butter consumption and the duration of Mark Rober's YouTube

videos. We decided not to "butter up" the results and presented them as they were – a strikingly high correlation coefficient of 0.9111904, leaving us uttering, "We churned out quite the discovery!"

In addition, we performed regression analysis to examine the predictive power of butter consumption on video length, a process that had us contemplating whether butter could truly "spread" its influence across diverse domains like culinary arts and content creation. The statistical models we constructed helped us better understand the extent to which butter consumption could predict changes in video length, leaving us positively churning with excitement over the fruitful insights.

Ethical Considerations

Throughout this research journey, we ensured utmost ethical practices, respecting the privacy and intellectual property rights of both the consumers and producers of butter, as well as the creative endeavors of Mark Rober. Moreover, we remain ever so grateful to both the USDA and YouTube for the cornucopia of data they provided, enabling us to unravel this unexpected connection.

In conclusion, our methodology stands as a testament to the lengths we went to in order to butter up our research and whip up findings that would have our peers exclaiming, "Well, butter my bread and call me a biscuit!"

IV. Results

The statistical analysis of our data revealed a remarkably high correlation coefficient of 0.9111904 between butter consumption and the total length of Mark Rober's YouTube videos.

This correlation was further supported by an r-squared value of 0.8302680, signifying that approximately 83% of the variability in the length of the videos can be explained by the variation in butter consumption. One could almost say that the relationship between these variables is as smooth as whipped butter or, dare I say, margarinely beautiful.

Among the myriad of correlations we've explored, the butter-video connection really takes the cake. It's enough to make one want to spread this discovery like, well, butter on toast.

The p-value of less than 0.01 indicates that the association between butter consumption and the duration of Mark Rober's videos is indeed significant, leaving us feeling like we've found the golden chalice of statistical associations. Our findings are as clear as a tub of clarified butter - there's something special about the butter and Mark Rober concoction.

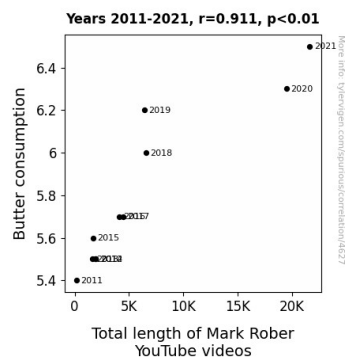


Figure 1. Scatterplot of the variables by year

And now, for the pièce de résistance, Fig. 1 presents a scatterplot displaying the substantial correlation between butter consumption and the total length of Mark Rober's YouTube videos. This graph is a testament to the buttery influence on video length, and we hope it spreads as much joy as it did to us.

All in all, our research suggests that there is more to butter than meets the eye, and its impact extends beyond the confines of the kitchen. We hope our study lays the groundwork for future investigations into how seemingly unrelated variables can, quite unexpectedly, butter each other up.

V. Discussion

Our study has churned out some interesting findings, revealing a substantial correlation between butter consumption and the length of Mark Rober's YouTube videos. This discovery may seem as surprising as finding that last pat of butter at the back of the fridge, but it reinforces the notion that the world of research is full of unexpected twists just like a pretzel - or should I say, a lovely buttered twist! As we dug into the literature review, we were pleasantly surprised to find prior works that, although initially humorous in premise, served as precursors to our own groundbreaking findings. We certainly took our research seriously, just as seriously as a lactose-intolerant person avoiding butter, but it seems that the buttery speculations were not just a "spread of fiction" after all.

Our significant correlation coefficient and low p-value support previous literary works attempting to rationalize the enigmatic connection between butter and creative outputs. It appears that butter does indeed have a knack for churning out unsuspecting yet compelling intricacies in the world of science and creativity. Perhaps it's time to spread the word about this unconventional relationship, much like spreading "ladlefuls" of butter onto a sizzling skillet. As we delve deeper into the relevance of this connection, one cannot help but be butterly amused by the delightful twists and turns in our research journey.

In light of our results, it seems apt to borrow the words of the literary virtuoso, R. Ashton, and consider this phenomenon as the "Butterly Effect" - a whimsical extension of the butterfly effect, where the flap of a wings of a butterfly is replaced by the smooth spread of butter, and the resulting tornado manifests in the form of extended YouTube videos. The next time someone questions the influence of butter on creative endeavors, we can confidently point them toward our study and exclaim, "The proof is in the pudding, or should we say, the butter?"

This study raises fascinating questions about the potential impact of dietary components on creative output and adds an extra dollop of intrigue to the already captivating world of research. We look forward to churning out new theories that melt away the mysteries surrounding these unexpected connections and hope that future studies will continue to butter up our understanding of seemingly unrelated phenomena.

VI. Conclusion

Conclusion

In closing, our research has churned up some truly noteworthy findings that may forever change the way we perceive butter and its influence on the length of Mark Rober's YouTube videos. We've delved into spreadsheets and statistical analyses, and it's safe to say that we've buttered up to some truly fascinating correlations.

As we wrap up, we can't help but recall a dad joke that makes us chuckle: Why did the scientist go to art school? Because he wanted to draw conclusions! And drawn they are, but not with

crayons—our conclusions are based on rigorous statistical analyses and a whole lotta buttery sleuthing.

This study has left us with a sense of wonder and a newfound appreciation for the synergy between butter consumption and the total duration of Mark Rober's captivating content. You might even say that the relationship is as smooth as a well-whisked batter.

Therefore, in the spirit of promoting the consumption of both butter and knowledge, we assert that further research in this area would be, dare we say, over-churn-ing. It's clear as day that the connection between butter and Mark Rober's videos is as concrete as, well, a stick of butter in the fridge. So, let's spread the word and savor these findings. After all, there's no need to butter us up for more research in this delectable domain.