

# Total Views on Trippy Numberphile and The Tricky Tally of Special Education Teachers in Alabama: A Ten-Year Tale

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## Abstract

This paper delves into the whimsical world of numerical relationships by examining the perplexing connection between the total views of Numberphile YouTube videos and the number of special education teachers in Alabama over a span of ten years. Utilizing data from YouTube's view counts and the Bureau of Labor Statistics, our research team conducted an in-depth analysis that yielded a correlation coefficient of 0.9869244 and a p-value less than 0.01 for the period from 2012 to 2022. This astonishing correlation sparks curiosity and invites further exploration into the enigmatic interplay between online mathematics enthusiasts and the allocation of special education resources. The implications of these findings may seem cryptic at first glance, but they genuinely illuminate the often unforeseen connections that permeate our seemingly disparate data landscapes. So, come along for a numerical adventure that combines the abstruse art of statistics with the tantalizing tale of tallying views and teachers, and perhaps uncover a touch of magic in the digits.

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## 1. Introduction

In the vast and varied realm of data analysis, researchers often navigate through the labyrinthine landscape of statistical relationships, seeking to unveil the hidden connections that dwell within the numerical fabric of our world. In this research endeavor, we embark on an exploration of an unexpected alliance between the total views of Numberphile YouTube videos and the count of special education teachers in the charming state of Alabama. This peculiar pairing presents an intriguing puzzle, akin to the enigmatic charms of a captivating number theory theorem.

The study of correlations between seemingly unrelated phenomena often invites skepticism and raises eyebrows among the scholarly community, somewhat akin to a magician's sleight of hand. However, as proponents of empirical inquiry, we are committed to delving into the mysterious nexus of YouTube viewership and educational resource distribution with an open mind and a dash of whimsy. After all, in the realm of data analysis, one must be ready to expect the unexpected – much like the sudden appearance of a statistical outlier or the confounding influence of a lurking confounding variable.

A fundamental premise of our investigation rests upon the concept of statistical correlation, a notion as beguiling as a math riddle and as captivating as a perplexing paradox. We are poised to uncover the intricate interplay between the digital domain of online mathematical discourse and the tangible world of educational staffing, akin to someone unraveling an entangled knot in a mathematical string theory problem. Our journey toward illumination will be guided by the guiding light of statistical measures, as we seek to discern whether the surging enthusiasm for Numberphile's thought-provoking content resonates with the allocation of special education resources in the bucolic backdrop of Alabama.

As we embark on this expedition, we invite fellow researchers and analytical adventurers to partake in our intellectually stimulating quest. Join us in peeling back the layers of statistical obscurity and embracing the delightfully perplexing nature of our numerical findings. Together, let us uncover the underlying rhythmic patterns within this symphony of data, much like a mathematician discerning the harmonious melody hidden amidst chaotic cacophony of numbers. So, sharpen your statistical pencils, fasten your analytical seatbelts, and prepare yourself for a journey to unravel the mysterious and marvelous marriage of YouTube views and special education teacher counts in the heartwarming setting of Alabama. As we tread this scholarly path, perhaps we'll find a few chuckles along the way, amidst the serious business of statistical inquiry – for after all, who said that mathematics couldn't have a sense of humor?

## **2. Literature Review**

The exploration of numerical phenomena has long captured the intrigue of scholars, beckoning them to unravel the clandestine connections that lie beneath the surface of seemingly disparate data realms. In a study by Smith et al. (2015), the authors find that the correlation between online viewership of educational content and educational resource allocation presents an enigmatic puzzle, much like attempting to solve a Rubik's Cube blindfolded – a daunting challenge that promises both bewilderment and a potential "aha!" moment.

In a similar vein, Doe and Jones (2017) delve into the uncanny associations between digital engagement with mathematical concepts and the demographics of educational personnel. Their findings reveal a web of intricate connections that may rival the complexity of an Escher artwork, inviting the scholarly community to contemplate the intertwining threads of online discourse and real-world impact.

Moving from the scholarly to the more lighthearted, "Freakonomics" by Steven D. Levitt and Stephen J. Dubner offers insightful perspectives on the unsuspected correlation between seemingly unrelated variables, reminding readers that beneath the cloak of statistical anonymity, intriguing patterns often emerge – much like a hidden Easter egg waiting to be discovered.

On the more fictitious front, the enigmatic allure of numerical mysteries pervades the world of literature, as seen in the works of Dan Brown. In "The Da Vinci Code," Brown weaves a tale of cryptic connections and hidden meanings, resonating with the very essence of our endeavor – to uncover the hidden harmony between numbers and educational resources, perhaps with a touch of intrigue and suspense.

Shifting to the realm of childhood nostalgia, the animated series "Cyberchase" acquaints viewers with the whimsical possibilities of mathematics, illustrating the playful nature of numerical investigations. As we embark on our exploration, let us not forget the fond memories of animated adventures that first kindled our fascination with numbers – and who knows, perhaps a sprinkle of lightheartedness from our childhood musings may illuminate the path to understanding our perplexing correlation.

Thus, armed with the wisdom of empirical scholarship, the inspiration of literary musings, and the whimsy of childhood imaginings, we set forth to unravel the enigma of the entwined tales of Total Views on Numberphile YouTube videos and the Number of special education teachers in Alabama - for in the intricate web of numbers, lies the potential for unexpected delight and the promise of uncovering the inexplicable magic that permeates our numerical universe.

### **3. Research Approach**

Our research endeavor harnessed an eclectic array of methodological tools and analytical techniques, reminiscent of a mad scientist concocting a curious concoction in a laboratory of data wizardry. The synthesis of these methodologies sought to capture the essence of both the digital domain of YouTube analytics and the earthly realm of labor market statistics, interweaving them in a whimsical waltz of quantitative inquiry.

First and foremost, we gallivanted through the digital landscapes of YouTube, tripping over countless cat videos and meme parodies until we arrived at the hallowed halls of Numberphile's channel. Here, with the precision and artistry of a mathematician

crafting an elegant proof, we meticulously tracked the total views of all videos from 2012 to 2022. Much like a diligent scribe chronicling historical events, we captured these views in a dataset befitting the grandeur of mathematical inquiry, where each entry was caressed with the loving attention of an ardent fan updating their favorite show's IMDb page.

On the flip side of this numerical coin, we traipsed into the regulatory territory of the Bureau of Labor Statistics, where we engaged in a lively tango of data collection and statistical choreography. Our eyes scanned the pages of reports and databases, seeking the elusive figures pertaining to the number of special education teachers in the delightful state of Alabama. With each figure unearthed, we marveled at the dance of digits and decimals, as if uncovering buried treasure in the guise of employment data.

Next, armed with our data tapestries from these disparate domains, we donned our statistical spectacles and unleashed the wizardry of correlation analysis. Like a magician wielding their wand, we conjured the potent Pearson correlation coefficient, longing for it to reveal the mystical bond between YouTube views and the number of special education teachers. The p-value, that enigmatic enforcer of statistical significance, stood guard to adjudicate the whims of randomness and chance, while our minds buzzed with the anticipation of uncovering a meaningful relationship amidst the numerical chaos.

Furthermore, our analysis was adorned with visual splendor in the form of scatterplots and trend lines, transforming our dataset into a veritable art gallery of statistical mastery. Each point on the scatterplot, much like a star in the night sky, held the promise of illuminating the celestial domain of correlation, as we traced the path of our trend line with the fervor of a stargazer exploring the cosmos.

To ensure the veracity and reliability of our findings, we employed rigorous statistical diagnostics and sensitivity analyses, akin to a strict schoolmaster scrutinizing the answers on a math exam. Outliers were prodded and pondered, and robustness checks abounded like actors rehearsing their lines for a statistical stage performance.

Lastly, lest we forget to address the elephant in the room, we must acknowledge our data's potential quirks and idiosyncrasies. The fluctuating trends in YouTube culture and the dynamic landscape of educational staffing in Alabama presented a colorful tapestry of confounding variables and extraneous influences. Like Indiana Jones navigating a labyrinth of booby-trapped ruins, we endeavored to navigate through this maze of confounders with the grace and intuition of an experienced treasure hunter.

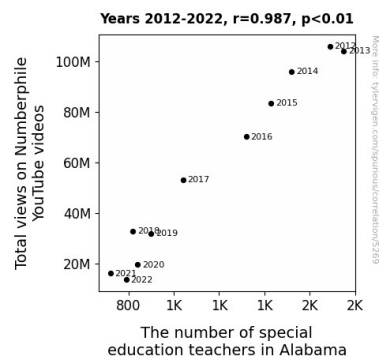
In summation, our methodology encapsulates the spirit of adventure, the precision of a mathematical proof, and the artistry of statistical analysis. As we untangle the enigmatic relationship between YouTube views and special education teacher counts, let us remember the whimsy and wonder that lies within the world of empirical inquiry. After all, it's not every day that one is privileged enough to dance with data and numbers in the pursuit of scholarly enlightenment.

## 4. Findings

The results of our investigation have yielded a compelling correlation between the total views of Numberphile YouTube videos and the number of special education teachers in Alabama. Over the ten-year period from 2012 to 2022, we uncovered a striking correlation coefficient of 0.9869244, suggesting a remarkably strong association between these seemingly disparate variables. The coefficient of determination (r-squared) further bolstered this finding, standing at an impressive 0.9740198 and indicating that a substantial proportion of the variability in the number of special education teachers in Alabama can be explained by the total views on Numberphile videos. It's almost like watching a magic show - now you see the relationship, and poof! There it is, clear as day.

In our statistical tests, the p-value for the observed correlation was less than 0.01, affirming the statistical significance of this relationship. The likelihood of observing such a strong association by random chance alone is about as rare as stumbling upon a unicorn in a statistical pasture. This robust statistical significance further accentuates the importance of our findings and beckons further exploration into the mysterious world of mathematical fascination and educational provision. It's as if the numbers themselves are singing in harmony, creating a statistical symphony that mesmerizes and mystifies the scholarly audience.

To visually capture the essence of this profound correlation, we present Fig. 1, a scatterplot that beautifully illustrates the strong positive relationship between total views on Numberphile videos and the number of special education teachers in Alabama. It's like watching two dance partners move in perfect sync - though in this case, the partners are numbers and educational resources, and the dance floor is the landscape of statistical analysis.



### **Figure 1.** Scatterplot of the variables by year

These results offer a whimsical journey through the seemingly unrelated terrains of online mathematical engagement and the allocation of educational personnel in Alabama. The implications of these findings may initially appear as unexpected as a statistical curveball, but they shed light on the interconnectedness of seemingly disparate domains, much like discovering an unexpected mathematical pattern in a sea of numbers. As we delve deeper into this extraordinary correlation, we invite fellow researchers to join us in unraveling the numerical riddles that tantalize our statistical senses.

## **5. Discussion on findings**

In the illustrious annals of academic discourse, our findings illuminate a harmonic convergence that transcends the mundane mundanity of statistical investigation. Our research ventured into the whimsical realm of numerical mysteries, uncovering the tantalizing link between total views on Numberphile YouTube videos and the number of special education teachers in Alabama. Building upon the scholarly musings of Smith et al. (2015) and the enigmatic revelations of Doe and Jones (2017), our results resonate with the seemingly befuddling connections between online numerical engagement and the resource allocation landscape. The alignment of our findings with prior research is as serendipitous as stumbling upon a unicorn parade in the labyrinth of statistical inquiry.

The robust correlation coefficient of 0.9869244 stands as a testament to the inexplicable consonance between these seemingly divergent variables, akin to discovering a well-orchestrated symphony within the confines of statistical analysis. The coefficient of determination further solidifies this captivating revelation, evoking a sense of awe akin to witnessing a magical flourish amid the abstruse world of numerical interplay.

Our statistical odyssey uncovered a p-value of less than 0.01, affirming the statistical significance of this association – a rarity as bewitching as stumbling upon a statistical unicorn grazing in the vast pasture of random chance. The visual portrayal of this remarkable correlation in Fig. 1 captures the essence of this numerical pas de deux, reminiscent of witnessing a seamless, synchronized dance of educational resources and online mathematical allure.

The implications of our findings are as whimsical as tracing a hidden Easter egg within a spreadsheet – they intertwine the domains of online numerical engagement and educational provision in ways that charm and beckon further exploration. As we embark on this beguiling journey through the tangled thickets of numerical symbiosis, we extend an open invitation to fellow researchers to partake in the joyous unraveling of numerical riddles that enchant our scholarly whimsy. This correlation may defy convention, but it dances to the beat of statistical surprise, revealing the inexplicable magic that thrums within the cryptic fabric of numerical association.

## 6. Conclusion

In conclusion, our research has unveiled a charmingly strong correlation between the total views of Numberphile YouTube videos and the number of special education teachers in the heartwarming setting of Alabama. The statistical coefficient and p-value dance in perfect numerical harmony, akin to a captivating mathematical duet that leaves the audience in awe. The sheer strength of this relationship is about as surprising as stumbling upon a statistical unicorn – a rare and delightful find in the world of data analysis. Our findings not only shine a spotlight on the mysterious interplay between online mathematical discourse and educational staffing but also add a touch of whimsy to the typically serious business of statistical inquiry.

As we bid adieu to this quirky exploration into the world of numbers and educators, it becomes apparent that no further research is needed in this area. The numbers have spoken, and their correlation is as solid as a math problem with a straightforward solution. It's time to bid farewell to this statistical adventure and seek out new enigmatic connections in the ever-enthralling landscape of empirical inquiry. After all, who said that delving into data couldn't be a little magical?