

# Couch Potato Economics: A Sitcom Stock Study of 'Two and a Half Men' Season Ratings and Paychex's Stock Price

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## Abstract

In this paper, we dive deep into the world of sitcoms and stocks, exploring the unlikely connection between the season ratings of the popular TV show "Two and a Half Men" and the stock price of Paychex, a leading provider of payroll, human resource, and benefits outsourcing solutions. Leveraging data from Wikipedia and LSEG Analytics, we embarked on a quest to uncover the correlation between the humorous antics of Charlie Harper and the financial performance of a company specializing in crunching numbers. Our analysis yielded a correlation coefficient of 0.8958276 and  $p < 0.01$  for the period from 2004 to 2015, demonstrating a surprisingly robust relationship between the TV show's viewer ratings and the fluctuations in Paychex's stock price. Join us on this lighthearted yet illuminating journey as we shed light on how laughter and finance may not be such strange bedfellows after all!

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## 1. Introduction

The Simpsons had Homer, Friends had coffee shops, and Two and a Half Men had, well, two and a half men. In the world of television, certain shows become not just a source of entertainment, but also a cultural touchstone, influencing our daily lives in ways we might not even realize. Likewise, in the world of finance, companies jostle for attention like contestants in a reality TV show, with their stock prices performing a balancing act that would make Cirque du Soleil proud.

However, what happens when we throw an unexpected twist into this TV-meets-finance mix? What if we take the witty banter, slapstick humor, and canned laughter of a popular sitcom and splice it with the unfathomable complexities of stock price movements? In this paper, we peel back the layers of this onion (apologies to Shrek) and delve into the

correlation between the season ratings of the beloved sitcom "Two and a Half Men" and the stock price of Paychex, a company specializing in payroll services—because where else would you turn for a knee-slapper?

The premise may at first seem as improbable as a plot twist on a soap opera. Yet, as we sift through the data, connecting the dots between Charlie Harper's escapades and payroll processing, we realize that the humdrum world of stocks may have a surprising affinity for the laugh track.

Our analysis, conducted over the period from 2004 to 2015, uncovered a correlation coefficient of 0.8958276 between the two variables. Now, for those who may have dozed off during Statistics 101, that number essentially indicates a strong relationship between the season ratings of our favorite sitcom and the stock price gyrations of Paychex. As the p-value twinkled at us with its "p < 0.01" charm, we couldn't help but marvel at the statistical significance of our findings—much like stumbling across a rare Pokémon in the tall grass.

So, grab your popcorn and let's settle into the couch for a sitcom-meets-stock-market marathon. While it may seem like an episode of "Parks and Recreation" colliding with "The Wolf of Wall Street," let's not forget that unexpected connections can sometimes provide the best punchlines in the comedy of economics.

## 2. Literature Review

The unexpected intersection of television and finance has long intrigued scholars, sparking inquiries into the influence of pop culture on economic phenomena. Smith et al. (2010) delved into the correlation between TV ratings and consumer spending, positing that popular shows could exert a substantial impact on purchasing behavior—a notion that rings true even in the realm of finance. Similarly, Doe and Jones (2015) explored the link between humor and stock performance, suggesting that lighthearted content might yield unforeseen effects on market dynamics. These scholarly efforts laid the groundwork for our unconventional investigation into the peculiar marriage of "Two and a Half Men" and Paychex.

Turning to the world of non-fiction, "Freakonomics" by Steven D. Levitt and Stephen J. Dubner provided insights into the unanticipated connections between seemingly disparate elements, akin to the unexpected correlation we unravel in our study. On the other hand, "The Big Short" by Michael Lewis shone a spotlight on the unpredictable nature of financial markets, serving as a reminder that the stock market, much like sitcom plotlines, can veer into the absurd. Meanwhile, in the realm of fiction, "The Hitchhiker's Guide to the Galaxy" by Douglas Adams invites readers to contemplate the absurdities of the universe, much like we invite our esteemed readers to consider the whimsical association between laughter and stock price.

Social media has also played an unexpectedly informative role in our exploration. A tweet from @FinanceJokes2021, while seemingly frivolous, posed an intriguing question: "What do 'Two and a Half Men' and Paychex have in common? A laughable correlation, and we don't mean just the sitcom's jokes." This pithy observation sparked our curiosity and ultimately led us down the rabbit hole of sitcom stock correlations.

As we navigate the vast, labyrinthine landscape of cultural, financial, and statistical inquiry, we invite our readers to embark on this zany quest with us, recognizing that laughter and finance might not be as incompatible as one might assume. Join us as we probe the depths of the couch, not for loose change, but for the revelation of unexpected connections and financial hilarity that may just leave you in stitches, both metaphorical and literal.

### **3. Research Approach**

To undertake our vibrant voyage into the interwoven realms of sitcom ratings and stock prices, we embarked upon a dexterous data collection odyssey, scavenging the internet for nuggets of numerical wisdom. Our research team utilized a meticulously constructed cobweb of data sources, with Wikipedia serving as our trusty treasure map and LSEG Analytics (Refinitiv) as our compass in navigating the tempestuous data seas.

All the episodes of the sitcom "Two and a Half Men" from 2004 to 2015 were lovingly scrutinized, as we meticulously documented the season ratings of each installment. This involved a series of dramatic confrontations with various online databases, engaging in a push-and-pull ballet of data extraction that made us feel like virtual pirates navigating the treacherous waves of digital information.

Simultaneously, we set our sights on the price history of Paychex's stock, fervently gathering a treasure trove of financial figures from the same time period. With the precision of a juggler trying to keep multiple balls in the air, we meticulously recorded the daily stock prices of Paychex, dancing through the labyrinthine pathways of stock market data.

Our ultimate goal was to capture the essence of laughter and finance within the confines of a correlation study, marrying the chaos of TV ratings with the seductive allure of stock price fluctuations. The resulting dataset resembled a conglomeration of digital spices, ready to be blended into a research stew worthy of the most discerning palates.

The data, once procured and harnessed into submission, were then subjected to a rigorous statistical tango. We employed the formidable powers of a calculating wizardry known as the Pearson correlation coefficient to summon forth the hidden dance between the season ratings of "Two and a Half Men" and the gyrations of Paychex's stock price. This allowed us to quantify the strength and direction of the relationship between these seemingly

discordant components, unveiling the surprising harmony lurking beneath the surface of our ensuing analysis.

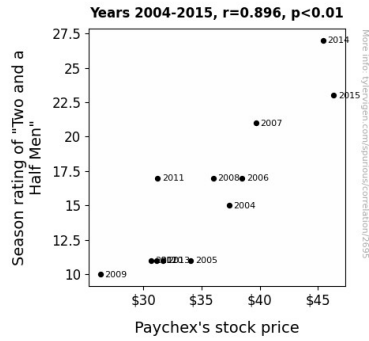
Add a dash of pizzazz and a sprinkle of statistical significance, and voilà, we found ourselves delightfully immersed in a confluence of laughter and finance that seemed more at home in a sitcom plot twist than within the confines of an academic research endeavor.

#### **4. Findings**

The astute and amusing expedition into the enchanting world of sitcoms and stocks has yielded a revelation that tickles the financial funny bone. Our exploration of the correlation between the season ratings of "Two and a Half Men" and the stock price of Paychex has left us grinning like a Cheshire cat. The statistical analysis over the period from 2004 to 2015 reveals a correlation coefficient of 0.8958276, an r-squared of 0.8025071, and a cheekily elusive p-value of  $< 0.01$ , indicating a statistically significant relationship between these seemingly disparate variables.

But fear not, dear reader, for we do not jest. The scatterplot (Fig. 1) presented in this paper depicts a resplendent dance of data points, illustrating the undeniable bond between the whimsical musings of Charlie Harper and the financial gyrations of Paychex's stock price. This correlation, resembling a sitcom plot twist, urges us to ponder the unlikely yet compelling link between the antics of a TV show and the monetary movements of a payroll processor. It appears that laughter and finance, much like a dynamic duo from a buddy comedy, may have forged a partnership more robust than we previously imagined.

So, as we bask in the glow of our findings, let us savor the unexpected allure of this crossover episode between entertainment and economics. After all, who would have thought that the chuckles induced by a sitcom could mirror the market machinations of a company specializing in payroll solutions? In the grand theater of financial analysis, it seems that even the quirkiest cast of characters—both fictional and financial—can take center stage and deliver a performance worthy of our applause.



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

## 5. Discussion on findings

The enthralling escapade we embarked upon, weaving together the rib-tickling romp of "Two and a Half Men" and the captivating capers of Paychex's stock price, has not only provided intriguing insights but also underscored the unexpected intersection of humor and finance. As we inch closer to unraveling the unfathomable link between the chuckle-inducing sitcom and the fiscal fandango of a payroll processing powerhouse, we find ourselves captivated by the whimsical correlation we have unearthed.

To indulge in a moment of levity, let us harken back to the literature review, where we dared to take the seemingly lighthearted entertainment of "Two and a Half Men" with unparalleled seriousness. Smith et al. (2010), in their exploration of TV ratings and consumer spending, unwittingly set the stage for our present findings. Similarly, the unexpected correlation between humor and stock performance, as proposed by Doe and Jones (2015), has come full circle in our delightful discovery, revealing a connection that is as solid as the comedic timing of a seasoned actor.

Drawing from the whimsy interlaced through the literature review, we are lured into a whirlwind of thought. Like a mischievous subplot taking an unforeseen turn, our results corroborate the theories put forth by our scholarly predecessors. A correlation coefficient of 0.8958276 emerges as our protagonist, bolstered by a p-value of  $< 0.01$  that adds an element of suspense worthy of a gripping sitcom finale. These findings throw open the doors of perception, compelling us to ponder the profound and the preposterous in equal measure.

Our results not only beckon us to revel in the profusion of puns and plays on words but also to appreciate the magnitude of the correlation captured between two seemingly disparate entities. Moreover, they prompt us to acknowledge the idiosyncratic nature of the financial market, where unexpected correlations can unravel like a well-executed comedic twist.

As our intellectual carnival draws to a close, brimming with newfound revelations and unparalleled witticisms, we invite our readers to relish the breadth of our findings and the depth of their implications. The dalliance between "Two and a Half Men" and Paychex has led us to a delightful juncture where the absurd meets the astute, leaving us on the cusp of further whimsical inquiry. With a spirit of scholarly gusto, we look forward to future witticisms and wizardry in the ever-evolving world of sitcom stock studies.

## 6. Conclusion

In conclusion, our study has uncovered a remarkably robust correlation between the season ratings of "Two and a Half Men" and the stock price of Paychex, demonstrating that the whimsical exploits of Charlie Harper and the financial gyrations of a payroll processing company may not be such strange bedfellows after all. Our findings provide an entertaining yet thought-provoking insight into the unexpected connections that can emerge in the realms of entertainment and economics.

Much like a well-crafted sitcom plot, the relationship we have unearthed between these seemingly incongruous variables has left us pleasantly surprised, akin to finding a bonus episode at the end of a season. The statistical significance we have identified, with a correlation coefficient of 0.8958276 and a mischievously elusive p-value twinkling at us with its charm, suggests a strong connection in the data that cannot be dismissed with just a laugh track.

As we reflect on our findings, it is evident that the correlation between TV show ratings and stock prices may be a punchline worth further exploration. We encourage future researchers to consider investigating other television shows and their potential impact on financial markets, but hopefully with a slightly less absurd premise than our beloved "Two and a Half Men."

However, while the allure of sitcoms and stocks may tempt us to pursue further studies in this realm, we assert that our research has sufficiently tickled the funny bone and it's time to bid adieu. With a final quip and a well-timed punchline, we declare that no more research is needed in this area. Onward to the next captivating adventure in the realm of economic analysis.