



SPSS BOOK DATA ANALYSIS

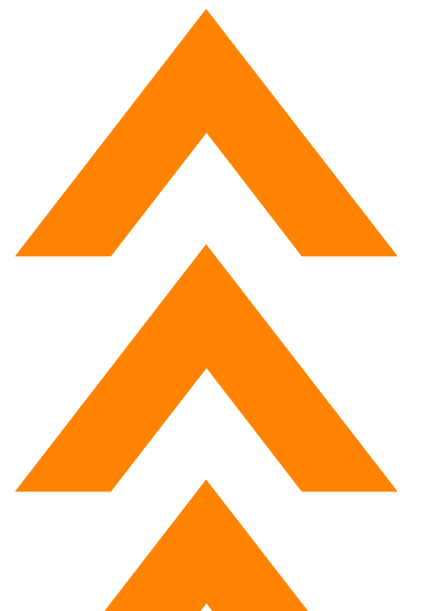
Mandy King, Kailin Nguyen, Jack Slade, Jada Seaman, Zoe Velas, Kevin Adelsberger





CONTENT

- Our Topic
- The Significance
- Our Process
- Our Analyses
- Takeaways





OUR TOPIC

BOOKS

BOOK TITLE



Genre	Library Thing Rating	Goodreads Rating	Amazon Rating	Barnes & Noble Rating	Binomial Book Length
Release Year	Total Number of LT Ratings	Total Number of GR Ratings	Total Number of Amazon Ratings	Total Number of B&N Ratings	Best Seller on Amazon
Number of Pages	Author's Gender	Author's Goodreads Followers	Paperback Amazon Price	Paperback B&N Price	Editor's Pick on Amazon





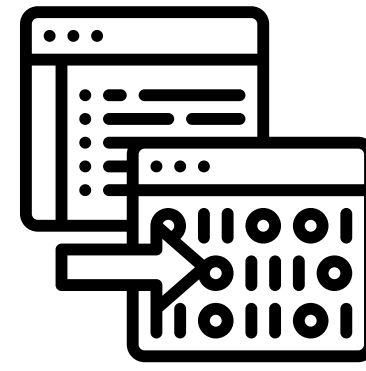
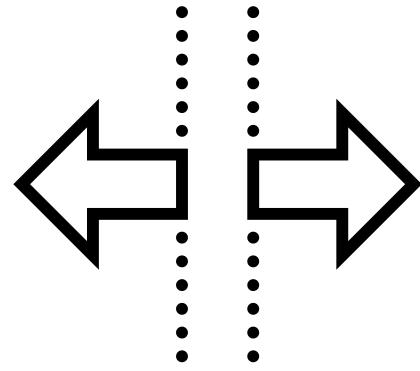
THE **SIGNIFICANCE**

***TO BE ABLE TO FIND VALUABLE BOOK INFORMATION
FROM 4 PROMINENT BOOK-REVIEW WEBSITES***

Authors can observe ways to
increase popularity & book
ratings

Allows for authors to find ideal
platforms to sell their books on
to receive positive feedback

OUR PROCESS



Delegate by genre

SciFi - Jack S.
Romance - Kailin N.
Fantasy - Mandy K.
Horror - Jada
Mystery - Kevin
Classics - Zoe

Individual data
collection via
Amazon, Barnes
and Noble,
Goodreads, and
Library Thing

Reconvene and
compile data

Complete analysis



WHERE WE GOT OUR DATA

amazon

—————→ Paperback price, Amazon rating, Amazon reviews, Amazon Best Seller, Amazon Editor's Pick

goodreads

—————→ Goodreads followers, rating, total ratings, author gender

BARNES & NOBLE
BOOKSELLERS

—————→ B&N price, B&N rating, B&N reviews

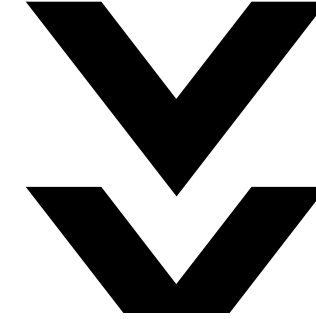
LibraryThing
What's on your bookshelf?

—————→ LibraryThing rating, LibraryThing reviews



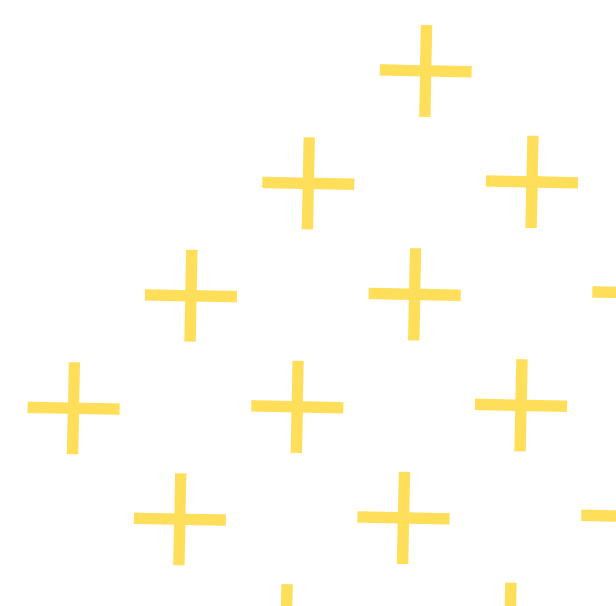
CORRELATIONS

INSIGHT #1



- Significance: .056
- Pearson Correlation: Positive
- Analysis: There is a positive correlation between the amount of followers an author has on Goodreads to their book's Goodreads rating.

		author_GRfollowers	goodreads_rating
author_GRfollowers	Pearson Correlation	1	+ .145
	Sig. (2-tailed)		.056
	N	175	175
goodreads_rating	Pearson Correlation	.145	1
	Sig. (2-tailed)	.056	
	N	175	175



Managerial Recommendation:

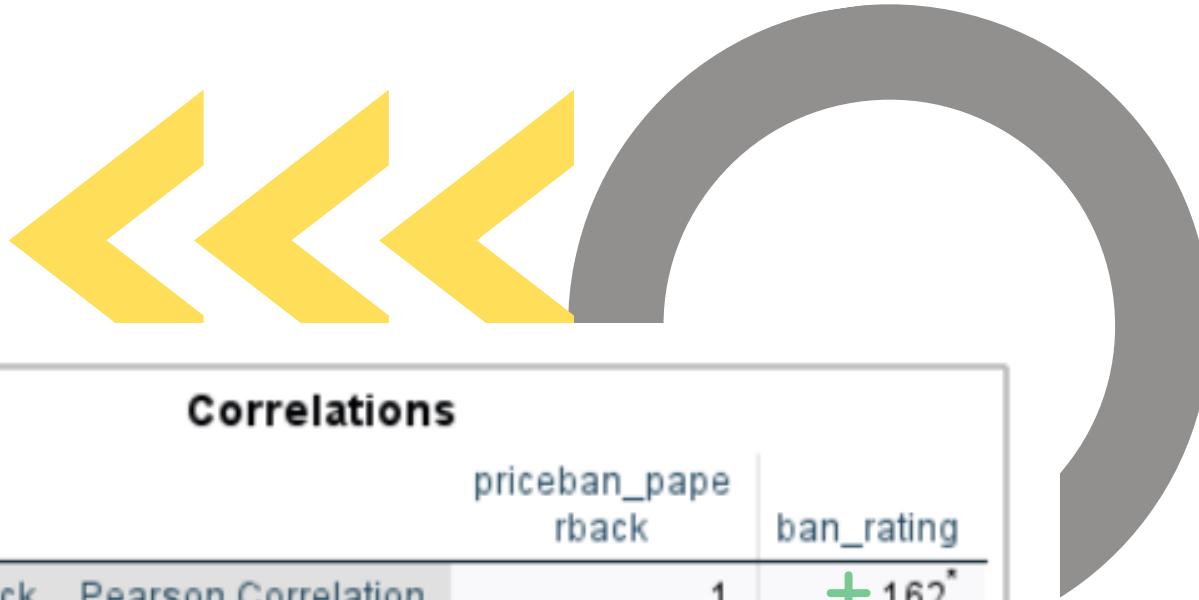
As an author, be aware that there is a correlation between these 2 variables and invest in accumulating Goodreads followers to possibly impact your ratings.



CORRELATIONS


INSIGHT #2

- Significance: .035
- Pearson Correlation: Positive
- Analysis: There is a positive correlation between the price of a book at Barnes and Noble and the rating of the book on Barnes and Noble's website.




		priceban_pape rback	ban_rating
priceban_paperback	Pearson Correlation	1	+ .162*
	Sig. (2-tailed)		.035
	N	171	168
ban_rating	Pearson Correlation	.162*	1
	Sig. (2-tailed)	.035	
	N	168	170

*. Correlation is significant at the 0.05 level (2-tailed).



Managerial Recommendation:



Implement strategic marketing and promotional efforts to boost the book's visibility. Increased exposure can lead to more sales and reviews, which can positively impact its rating and, subsequently, its value.

LINEAR REGRESSIONS

INSIGHT #2.5

BARNES AND NOBLE

Coefficients ^a						
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4.045	.109		37.168	<.001
	priceban_paperback	+ .015	.007	.162	2.121	.035

a. Dependent Variable: ban_rating

As the price of the book increases by 1 unit on Barnes and Noble, the rating increases by .015 on B&N.

AMAZON

Coefficients ^a						
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4.522	.050		89.938	<.001
	priceamazon_paperback	- .008	.004	-.145	-1.918	.057

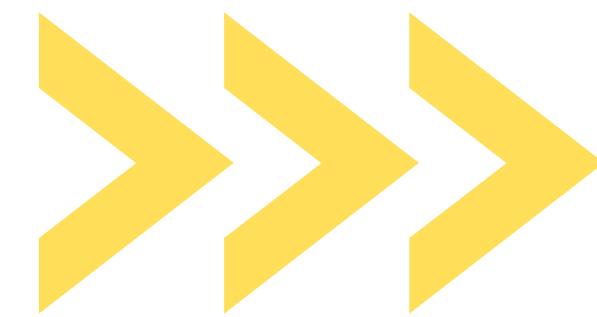
a. Dependent Variable: amazon_rating

As the price of the book on Amazon increases by 1 unit, the rating decreases by .008 on Amazon.

Amazon users are more price sensitive and a book's high price can negatively affect its ratings. An author should sell their book on B&N if they want more freedom with pricing their book more expensively and not experience negative reviews due to its cost.

LINEAR REGRESSIONS

INSIGHT #3



Model		Unstandardized Coefficients		Standardized	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-829888.392	306754.126		-2.705	.008
	amazon_rating	201445.788	69226.129	.214	2.910	.004
	amazon_reviews	.649	.288	.166	2.257	.025

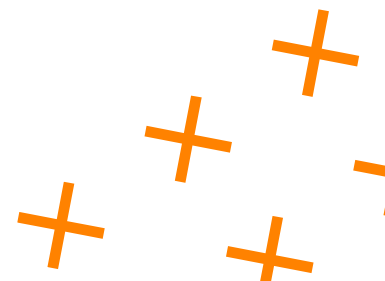
a. Dependent Variable: author_GRfollowers



As Amazon ratings increase by 1 star, GR followers have the potential to increase by 200k

As Amazon reviews increase by 1 unit, GR followers have the potential to increase by .649.

If Authors want to grow their following, they **should focus on increasing Amazon ratings**. The **star rating system carries more weight than written reviews**.



FORECASTING FOLLOWERS

INSIGHT #3

Model		Unstandardized Coefficients		Standardized	t	Sig.
		B	Std. Error	Coefficients		
1	(Constant)	-829888.392	306754.126		-2.705	.008
	amazon_rating	201445.788	69226.129	.214	2.910	.004
	amazon_reviews	.649	.288	.166	2.257	.025

a. Dependent Variable: author_GRfollowers

$$\begin{aligned}\text{GRfollowers} &= 201445(\text{rating}) + .649(\text{reviews}) - 829888 \\ &= 201445(4.2) + .649(200) - 829888 \\ &= 16,310\end{aligned}$$

If a book has a rating of 4.2 and receives 200 new ratings, authors have the potential to gain **16,310 new followers on Goodreads**

BINARY REGRESSION

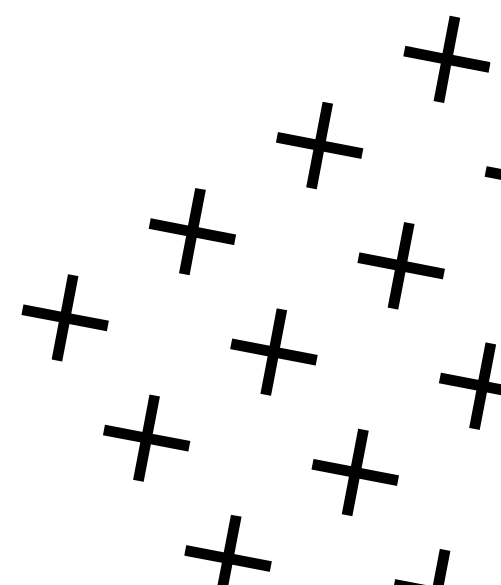
INSIGHT #4



		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1 ^a	release_year	-.017	.004	16.990	1	<.001	.983
	Constant	31.355	8.006	15.339	1	<.001	4.142E+13

a. Variable(s) entered on step 1: release_year.

- Significance of Amazon Rating: <.001
- Pearson Correlation: Negative
- Analysis: On average, one unit increase in release year, a book becomes 1.7% less likely to be labeled as a best seller on Amazon



Authors should promote their books as close to their published date as possible because **as books get older, they become less likely to be labeled as a "Best Seller"** on Amazon.



BINARY REGRESSION

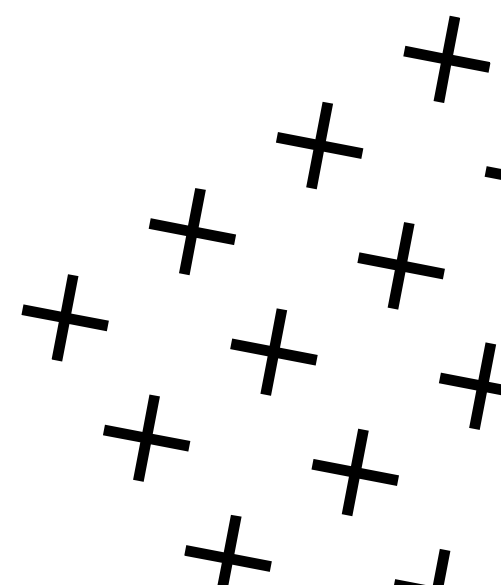
INSIGHT #5



		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1 ^a	priceban_paperback	-.142	.064	4.927	1	.026	.868
	Constant	.270	.931	.084	1	.772	1.310

a. Variable(s) entered on step 1: priceban_paperback.

- Significance of Amazon Rating: .026
- Pearson Correlation: Negative
- Analysis: For each \$1 increase in book price at Barnes and Noble, the book becomes 13.2% less likely to be an Amazon Best Seller.



If authors want to obtain the title of an Amazon best seller then they should aim for their book to be sold at a lower price on Barnes and Noble.

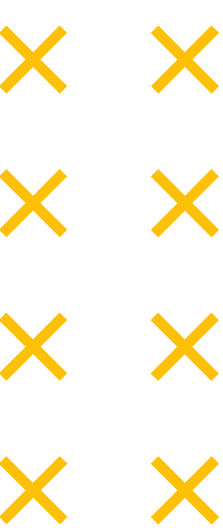




Our Biggest Takeaways



Authors should be cautious of impacts from website reviews (Barnes and Noble)



Diminishing returns with higher priced books along with quality of ratings

Authors should promote early and often to build a bigger following and receive higher and better ratings





THANK YOU!

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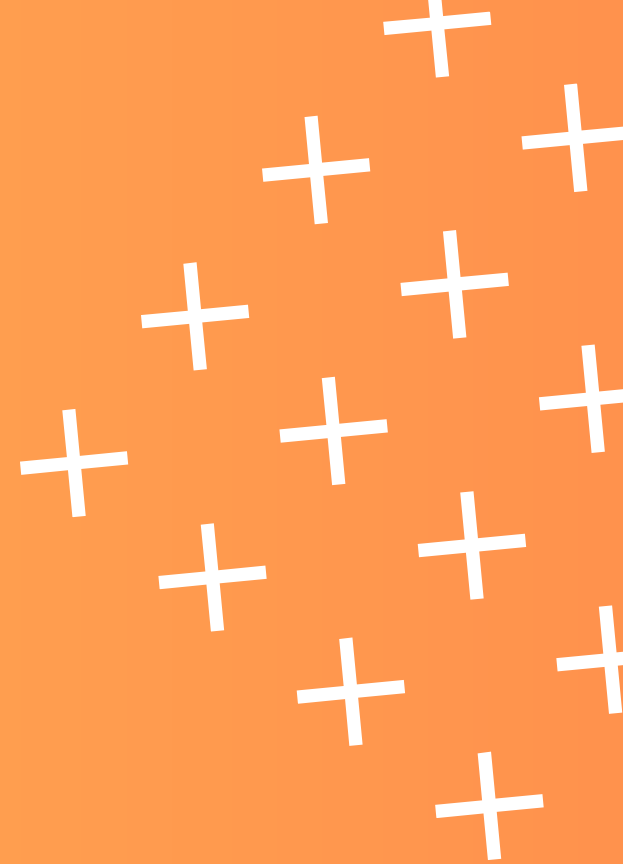
SIGNIFICANCE



*TO BE ABLE TO FIND VALUABLE BOOK
INFORMATION FROM 4 PROMINENT BOOK-REVIEW
WEBSITES*

Authors can
observe ways to
increase
popularity &
book ratings

Allows for authors
to find ideal
platforms to sell
their books on to
receive positive
feedback



IN CONCLUSION

Our biggest takeaways...

- Authors should be cautious of impacts from website reviews (Barnes and Noble)
- Diminishing returns with higher priced books along with quality of ratings
- Authors should promote early and often to build a bigger following and receive higher and better ratings