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Best Books of the Decade: 2000s

Objectives:

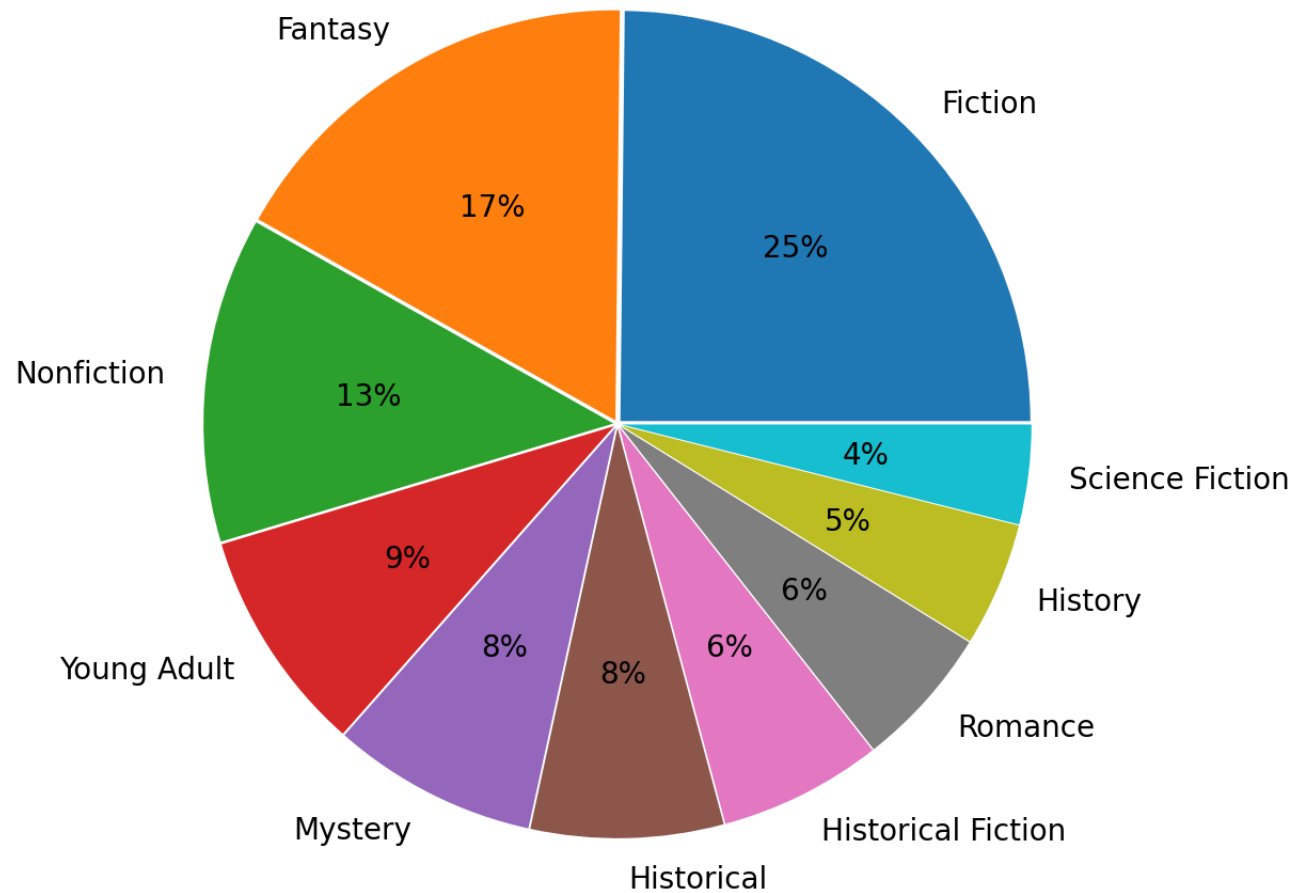
1. Scraping the required data of the analysis of 6399 books.
2. Creating own database for 5596 best books using pandas.
3. Preprocessing the data for better analysis, by transforming the data with normalization.
4. Visualizing the data using matplotlib and seaborn.
5. Publishing the results using streamlit with the help of plotly.



Data Analysis & Key Findings

Visualizations (Matplotlib & Plotly)

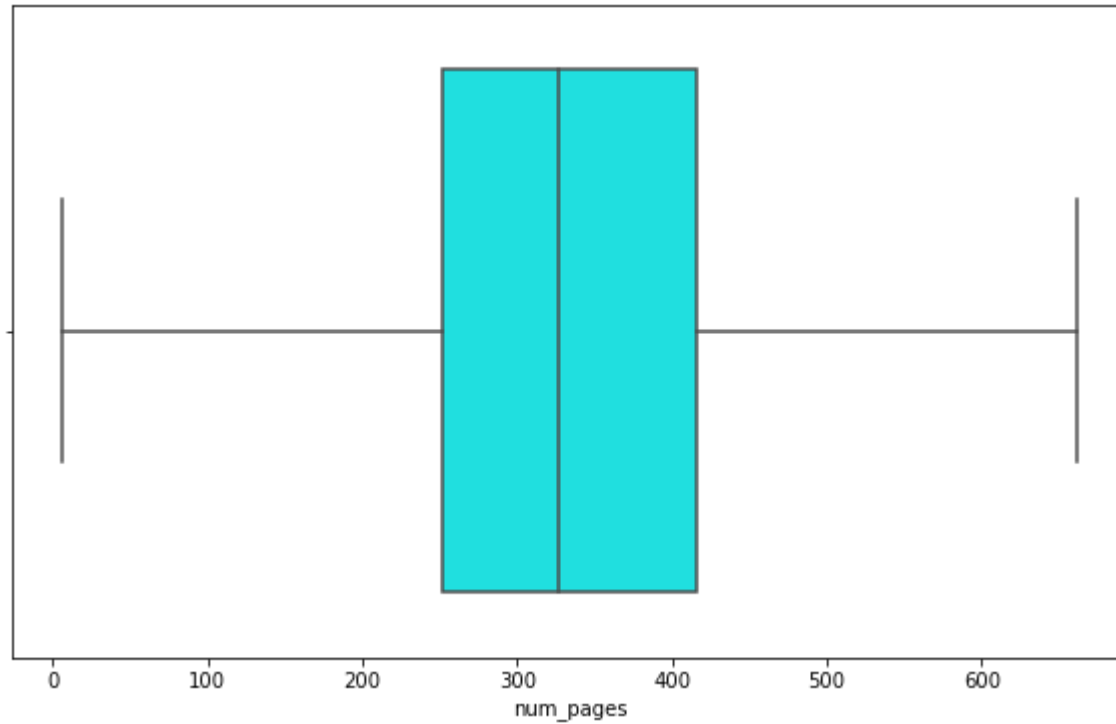
Pie Chart representing the top 10 Genres





- The **fiction books** were released the **most** in a decade of 2000s.
- Similarly, the **science fiction** was **least** released.

Box Plot Diagram of Number of Pages in a Book

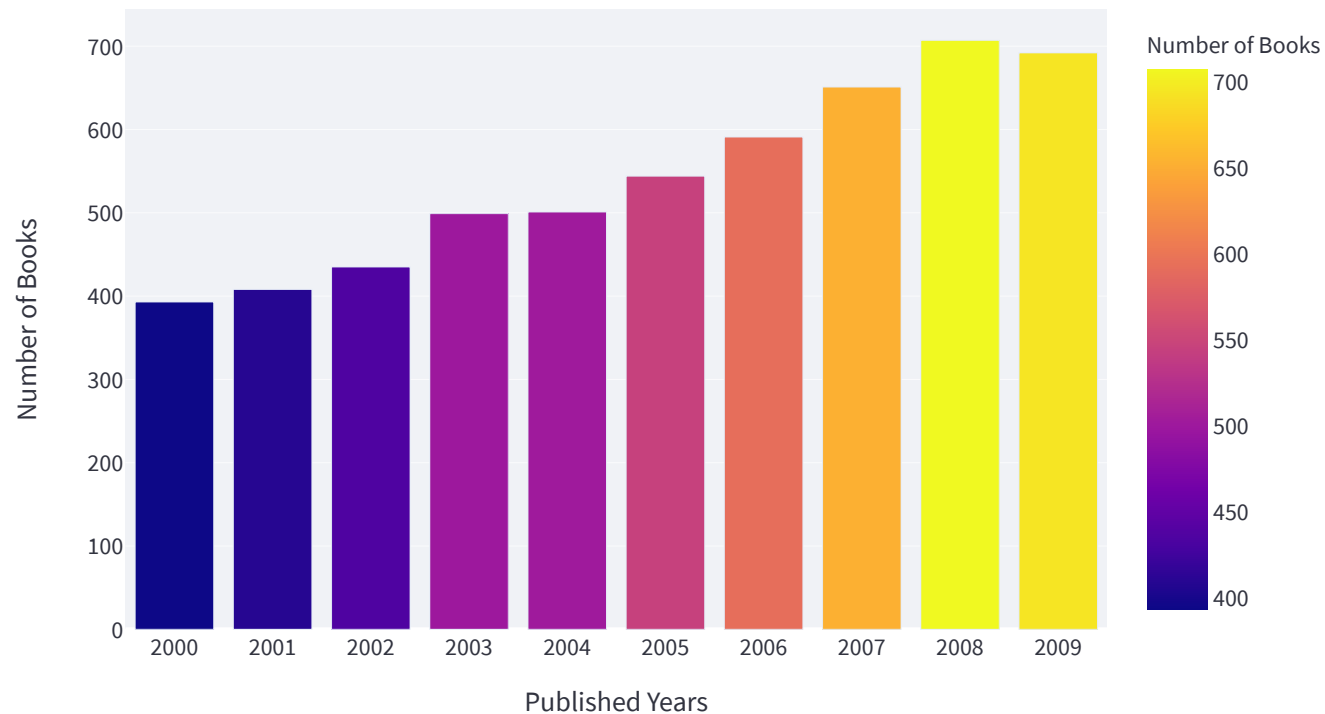


Box Plot Diagram

- Median = 325 Pages
- Maximum = 710 Pages
- Minimum = 5 Pages

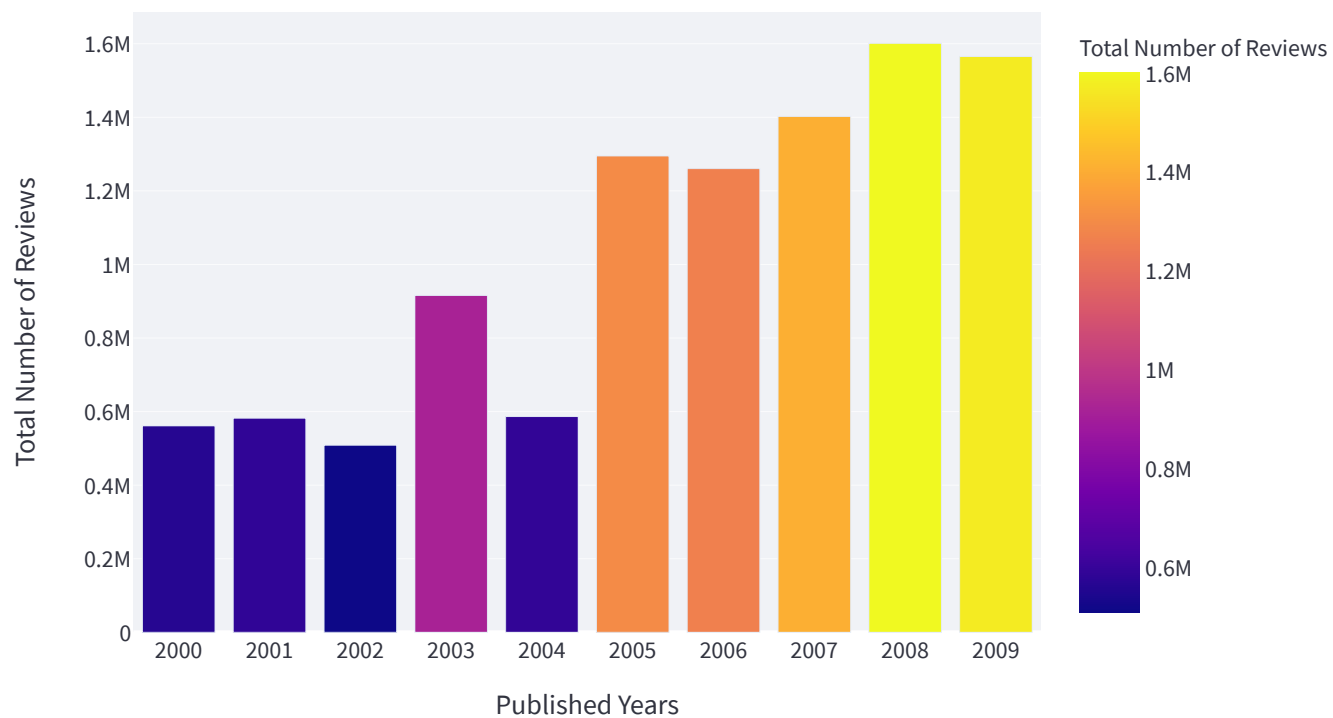


Number of Books published according to Years



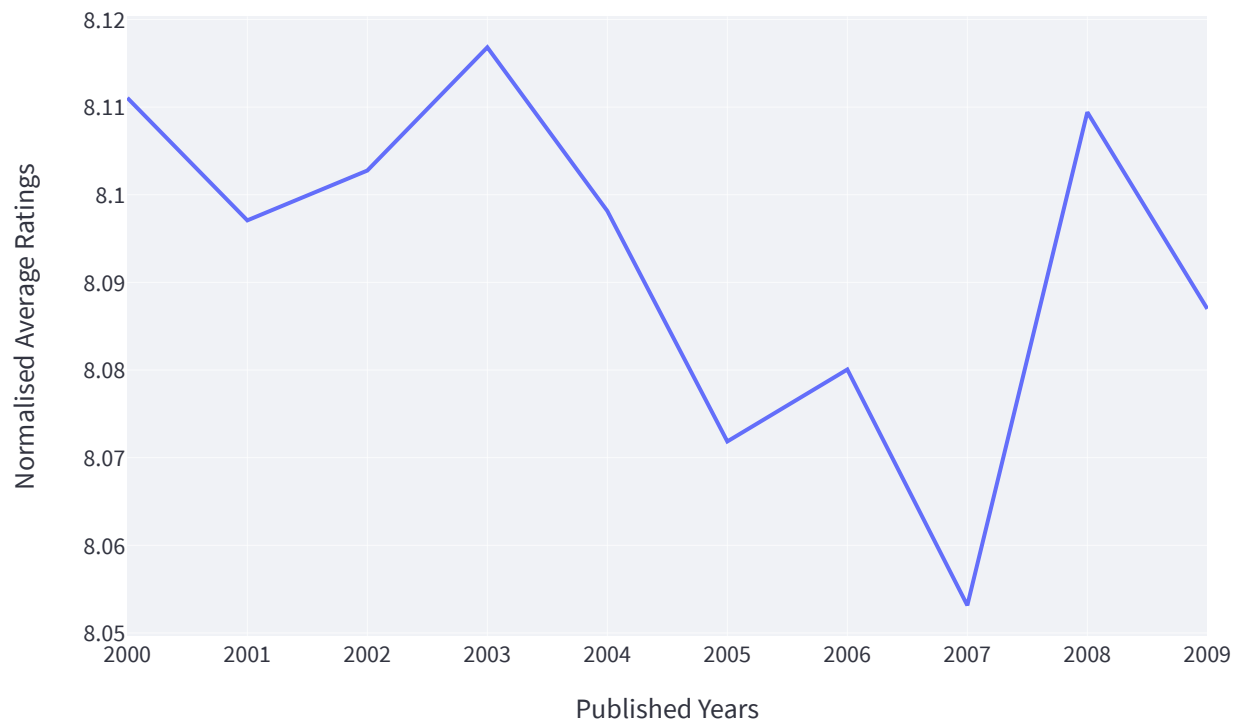
- In the first 4 years, there was a **slight rise** in the rate of books published each year.
- From 2004 till 2009, there was a **linear** change in rate of books published each year.

Relationship of Number of Reviews over published Years



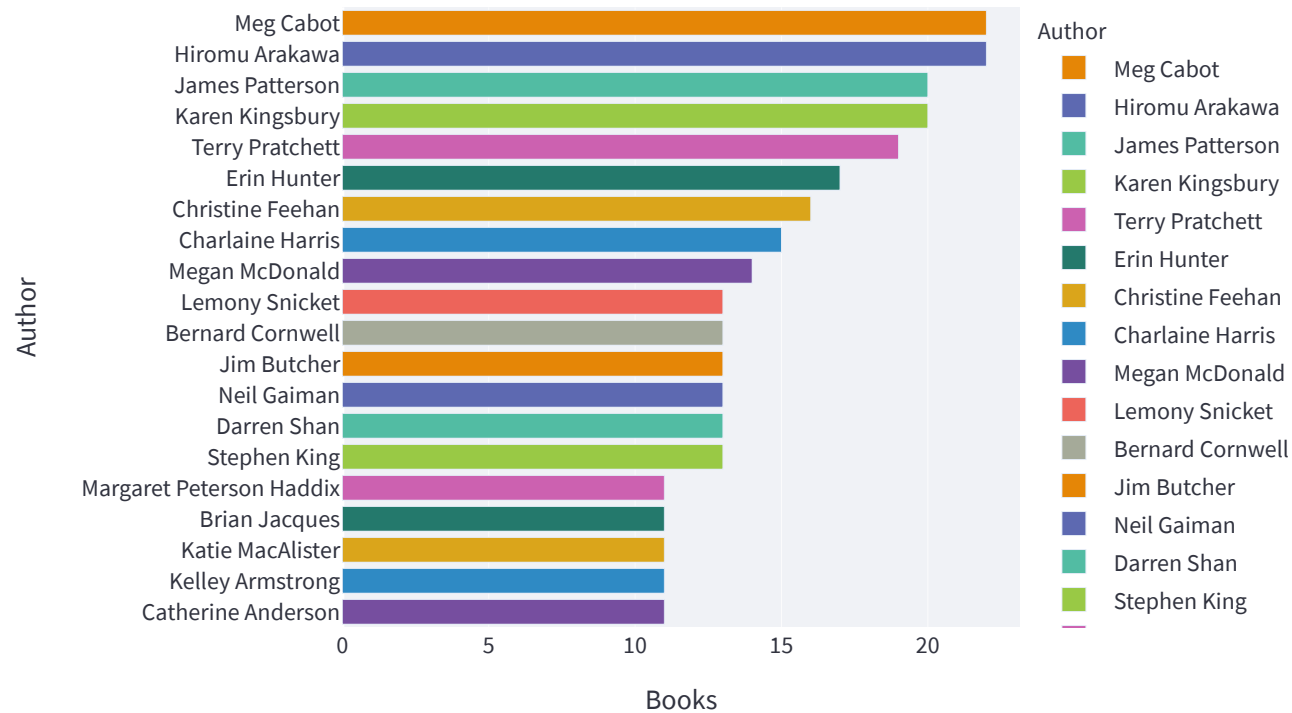
- In the first 4 years, there was a **steady** rate of change in number of reviews.
- From 2004 till 2009, there was a **major** change in rate of reviews exceeding 1M.

Normalised Average Ratings for a Decade



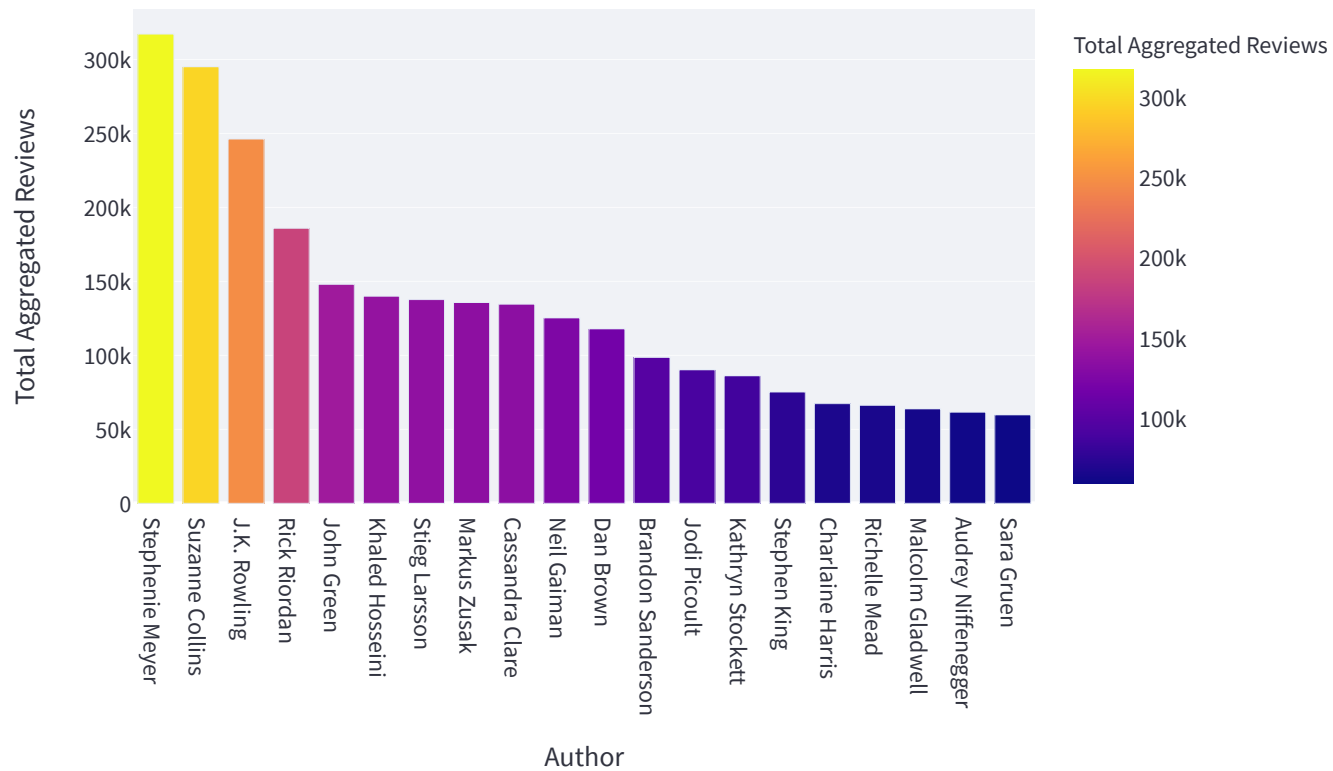
- The **highest peak** in 2003 showing an average rating of 8.11.
- The **lowest peak** in 2007 showing an average rating of 8.05.

Number of Books published by the Authors (Top 20)



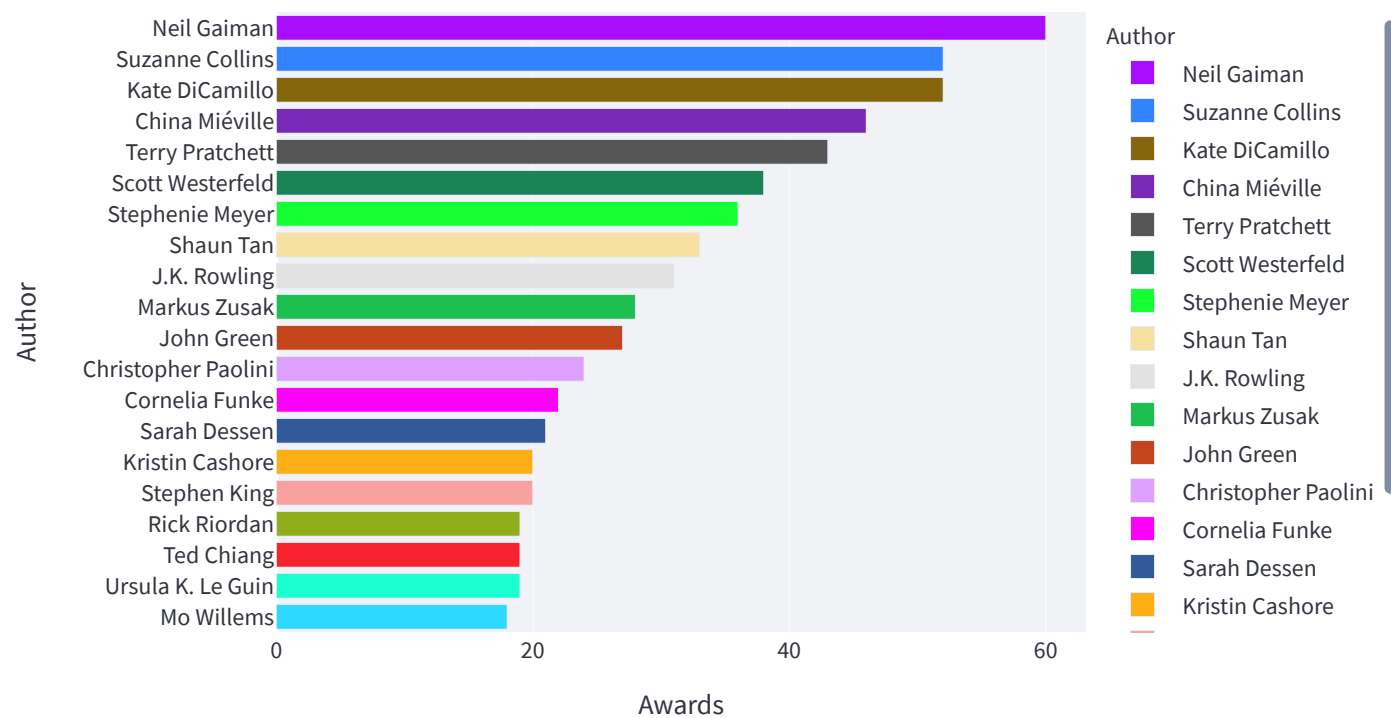
- Authors **Meg Cabot** and **Hiromu Arakawa** published **22** books in total during the decade 2000s.
- There were **5** Authors published **11** books during the between 2000-2009.

Total Reviews obtained by the Authors (Top 20)



- The **highest** number of total reviews is to be seen with the Author Stephanie Meyer, she published 9 books in the 2000s decade and showing that she had more than 0.3M readers.
- The **lowest** number of total reviews is to be seen with Author Sara Gruen, she published only one book and gathered around 60k reviews showing that the readers were exceeding 60k.

Number of Awards given to the Authors (Top 20)

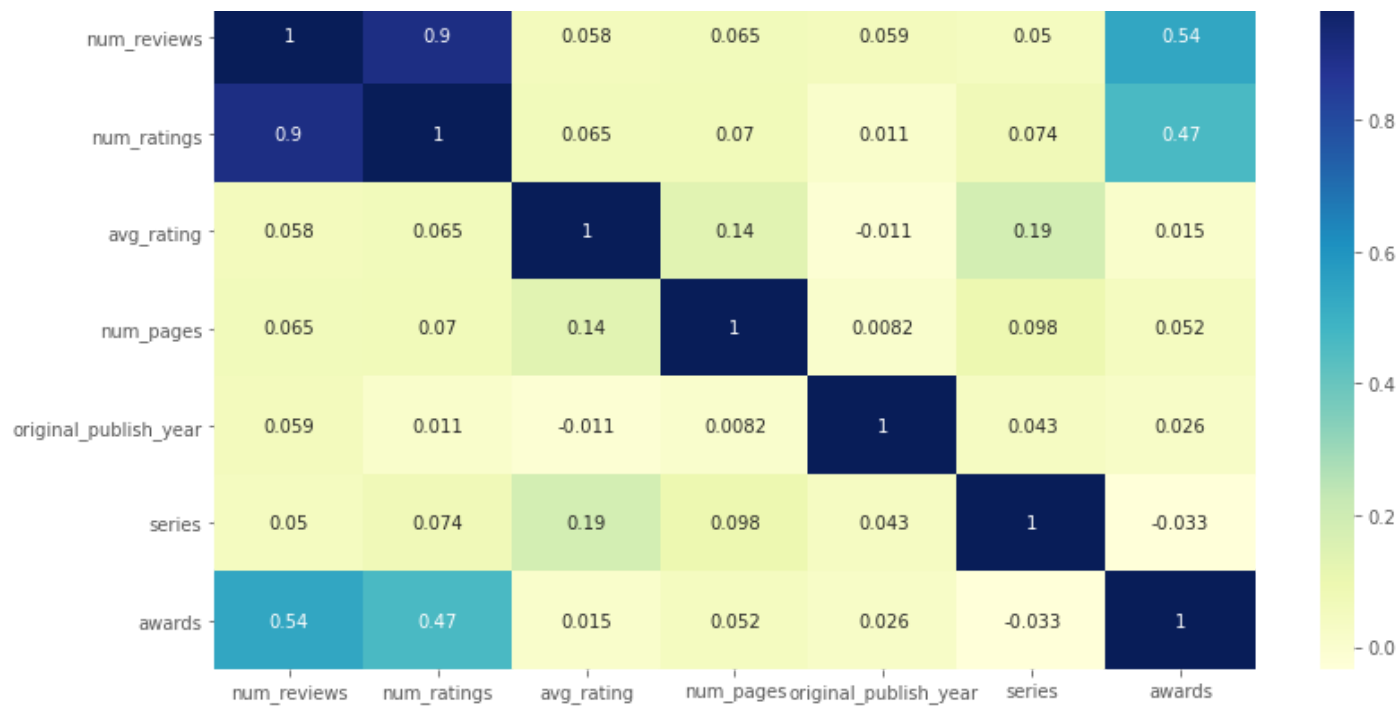


- Author **Neil Gaimann** received **60** Awards.
- Author **Mo Willems** received **11** Awards.

Conclusion

Correlation Coefficient Heat Map





Correlation Coefficient Heat Map

- A **strong uphill** (positive linear) relationship can be seen between the **number of ratings & number of reviews**.
- A **moderate uphill** (positive linear) relationship is being observed between **number of reviews & awards** and **number of ratings & awards**.
- No linear relationship can be observed between the **series released & the number of ratings**.



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