Trait Analysis to Facilitate Children's Books Recommender Systems

4. Results

ŤUDelft

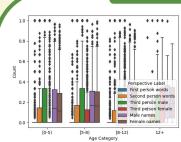
Author: Stijn Swart Supervisor: M.S. Pera s.f.swart@student.tudelft.nl

1. Background

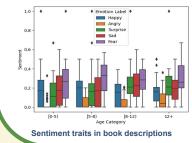
- Children don't leave many book reviews when compared to adults
- Target age instead of similar users or previous preferences expressed through reviews
- Explore traits that can aid in targeting specific age groups
- The relation children have with **perspective** and **sentiment** change as children **age**

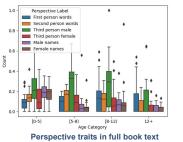
2. Research Question

What sentiment and perspective traits can be extracted from book descriptions and fulltext and how do these traits differ when compared between those two sources?



Perspective traits in book descriptions





The section of the sector of t

• Shift from names to

advancing through the

• All 5 emotions aid in

age group distinction

when extracted from full

pronouns when

age groups

book text

Results

Both sentiment and perspective traits that can be used for differentiating books by age can be extracted from book

6. Conclusion

- descriptions and full book text.
- Traits extracted from full book text show more promise in this process when compared to those obtained from book descriptions

7. Limitations

- Limited book count in full book text part of dataset
- Public domain books use antiquated writing
- Tool selection has a lot of impact on the results of sentiment trait extraction
- Name detection struggles with foreign names

• Difference in first person perspective between description and

5. Findings

- full book text
- A lot more **variance** in book descriptions when compared to full book text

* aman2666. Text2emotion. https://github.com/aman2666/kext2emotion-library, 2022. * SSA America. Popular baby names in the usa. https://www.ssa.gov/AC2T/habymanes/limits.html. * Timothy K Amratrong. Picht texts: Wikisource as an open access repository for law and the humanities. U of Continnati Public Law Research Paper, (10-09), 2010. * Arthur M Jacobs. Sentiment analysis for words and fiction characters from the perspective of computational (neuro-) poetics. Frontiers in Robotics and AJ, 653. 2015 I J Siee. Who is the average goodreads user? https://www.goodreads.com/.jan.2017. * Andrea Schwenke Wylie. The value of singularity in first-and restricted thrid-person engaging narration.

References:

3. Method

text





Text2Emotion