

# "Covering Covers" - Characterization Of Various Elements Regarding Sleeves

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## 1. Background

- **Reading** is important for children's development at **different ages**.
  - Recommendation systems (**RS**) can help pick **appealing** books.
  - **Little is known** about RS for children's books.
- **Book covers** impact the appeal of a book.

Use book covers to recommend books to children!

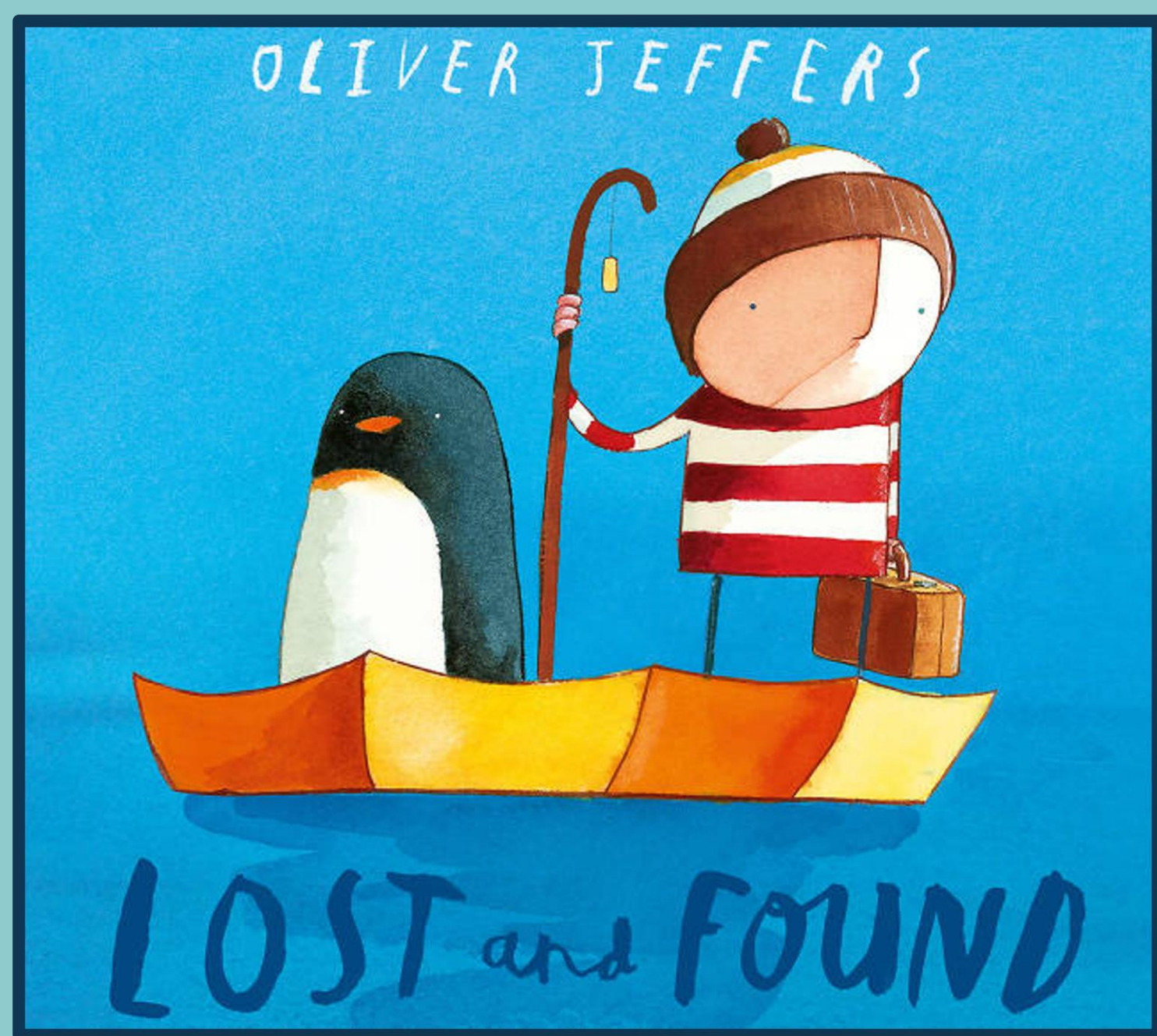
## 2. Research Question

To what extent do **visual features of covers** contribute to the recommendation of books appealing to **children of different ages**?



## 3. Method

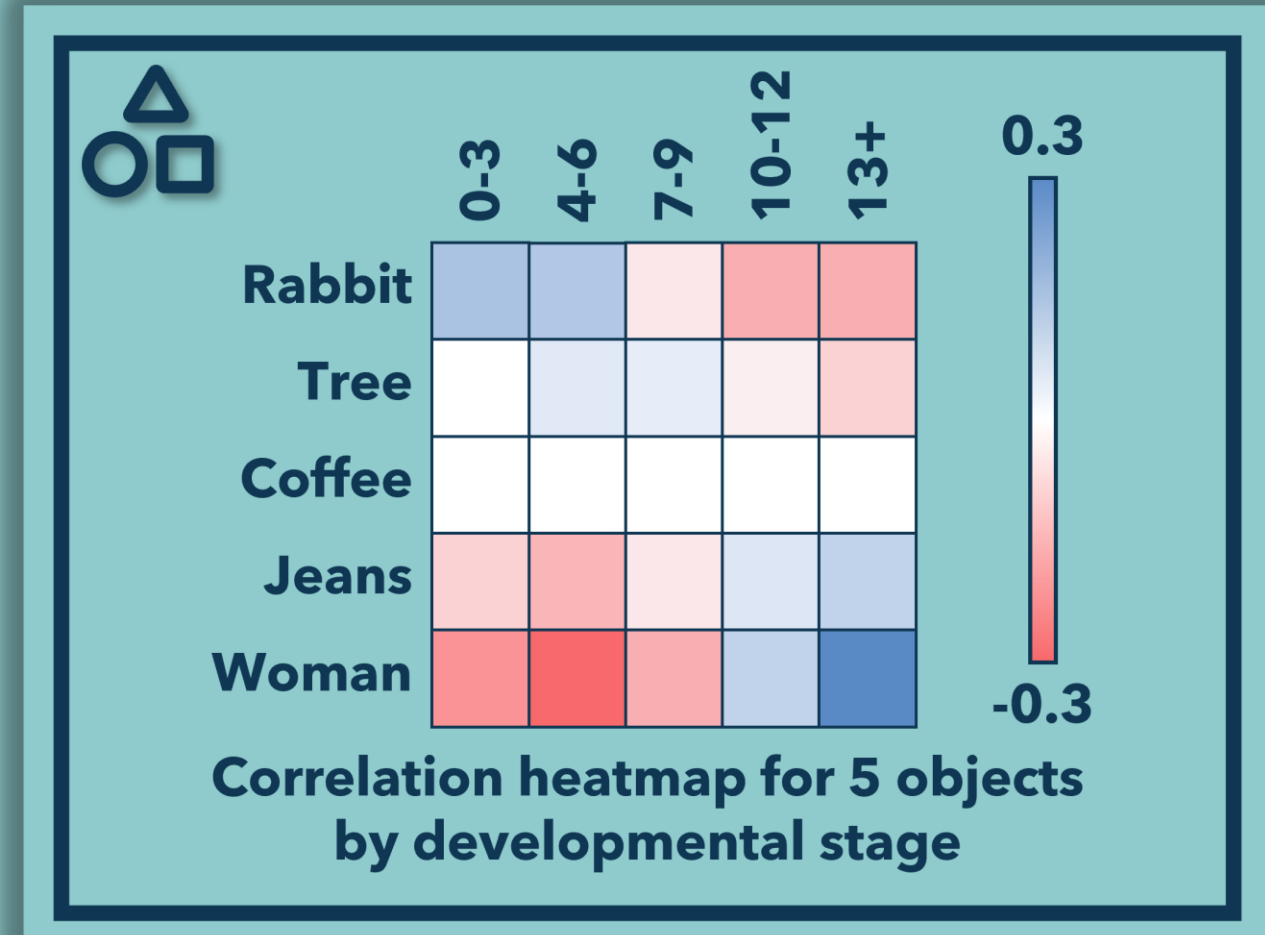
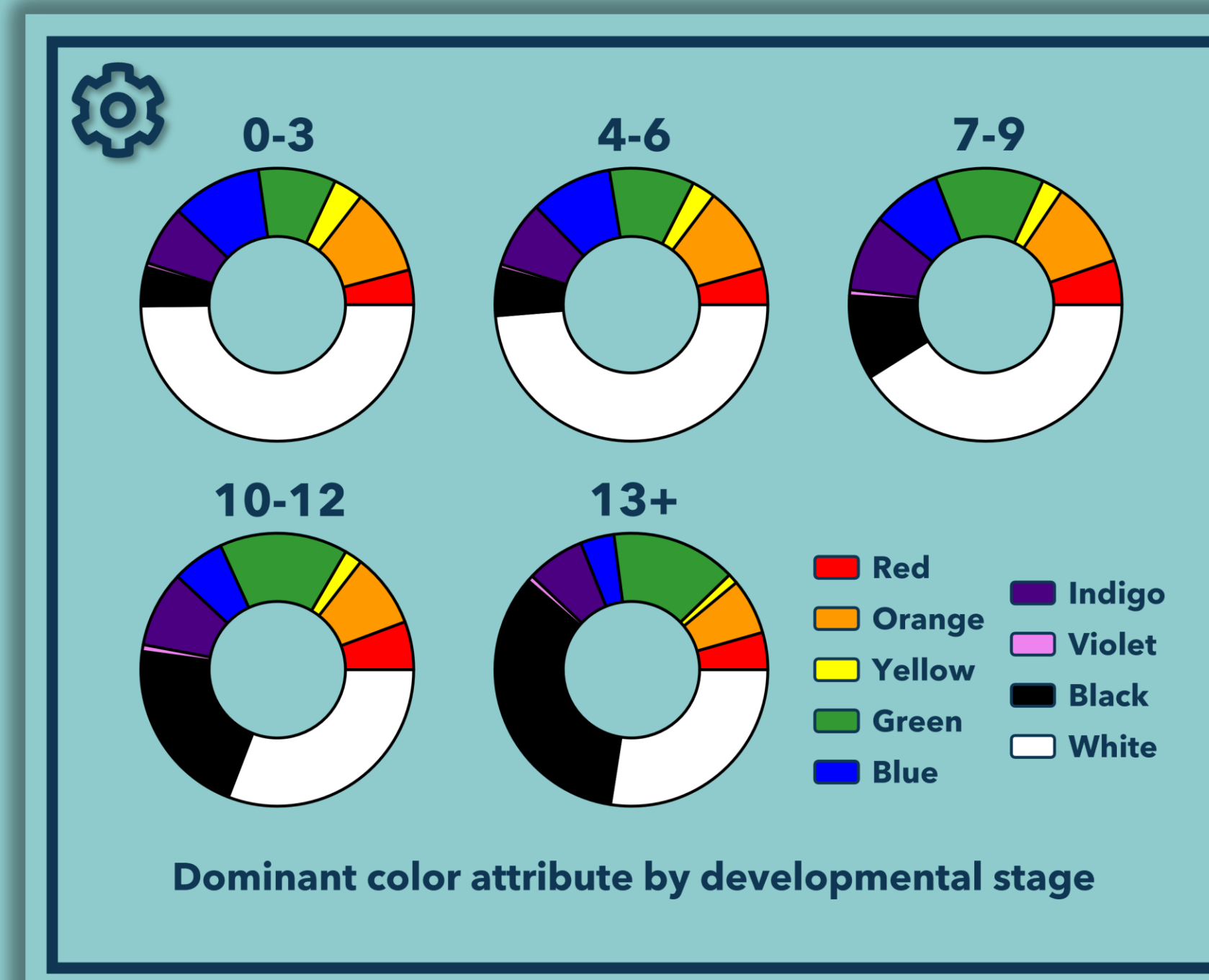
Examine **93,662** children's book covers from the **Goodreads** dataset. Analyze the results grouped by **developmental stages**.



**Dominant color:** **Brightness:** 62% **Colorfulness:** 52%

**Poster**      **Hat**  
**Penguin**      **Paddle**  
**Person**      **Canoe**

"A picture of a penguin and a man in a boat"



Most associated topics by developmental stage

Developmental Stage	Topic 1	Topic 2
0-3	Animals	Nature
4-6	Playing	Adventure
7-9	Education	Sport
10-12	Creativity	Colors
13+	Romance	Leisure

## 4. Findings

- **Noticeable differences** between the developmental stages.
- **Brightness, colorfulness** and the presence of **animals** are the best indicators for age.

	Young	Old
	Bright & Colorful	Dark & more Contrast
	Animals & Nature	People & Accessories
	Playing & Adventure	School & Romance

## 5. Limitations

- Use of age groups
- Not perfect object detection
- Unreliability in cover images

### References:

- "Lost and Found" by Oliver Jeffers
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- Milton, A., Batista, L., Allen, G., Gao, S., Ng, Y. K. D., & Pera, M. S. (2020, September). "Don't judge a book by its cover"