

Verification of Novel Summarization in Arousing Reading Interests

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1. Background & Objective

Young people spend less time reading books



Their skills are declining.

Reading comprehension



logical thinking

They are interested in reading, usually think that it takes a long time to read a book continuously.

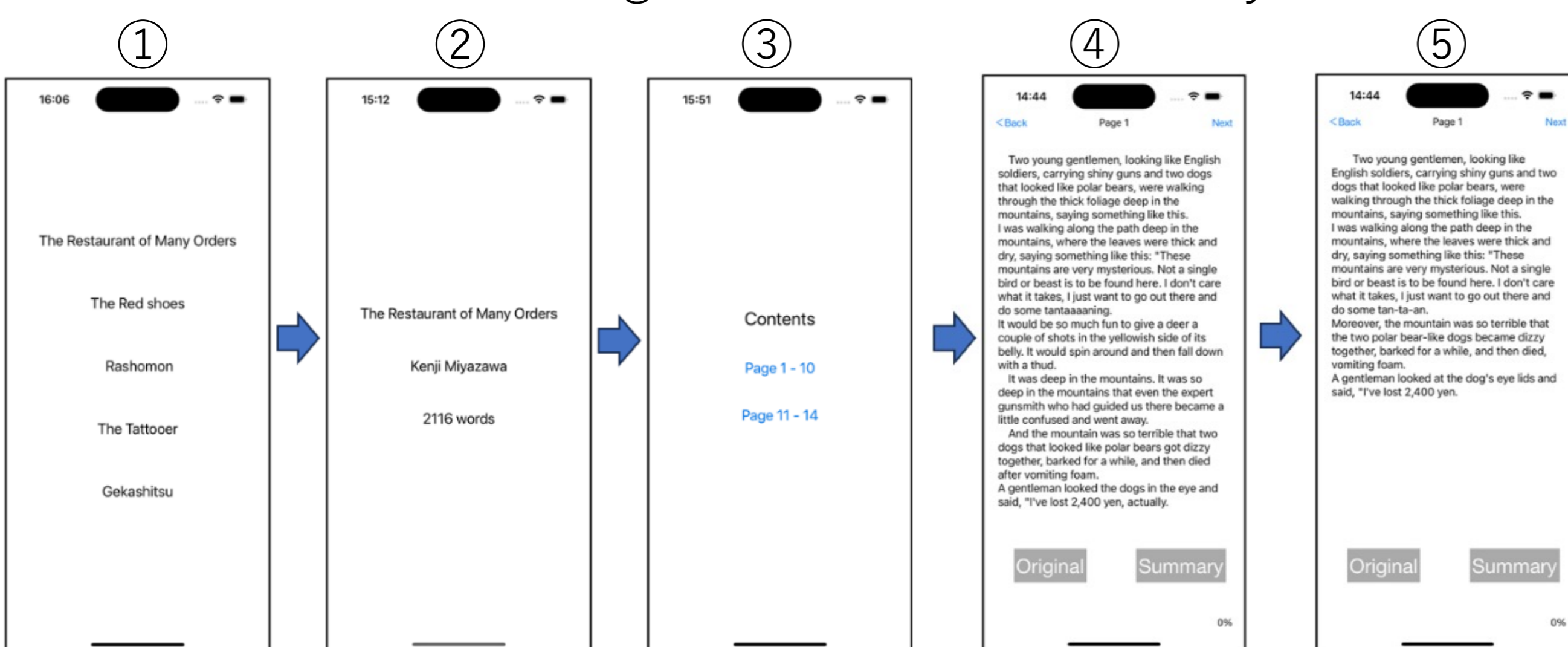


If the reading time is reduced per book, readers would read more books and maintain their interest in reading.



2. Implemented User Interface

We Implemented a reading support interface with a function to switch between the original text and the summary.



① It displays the titles of novels and users can select the title they like.

② Displays the title, author, and word count.

③ Users can choose where to start the novel.

④ Users can switch between the original text and the summary text while reading each page.

⑤ This is the summary display screen. The implemented interface uses "Tanteki"* as a summarization function that is one of the extractive summarization APIs. The summary ratio is set to 70%.

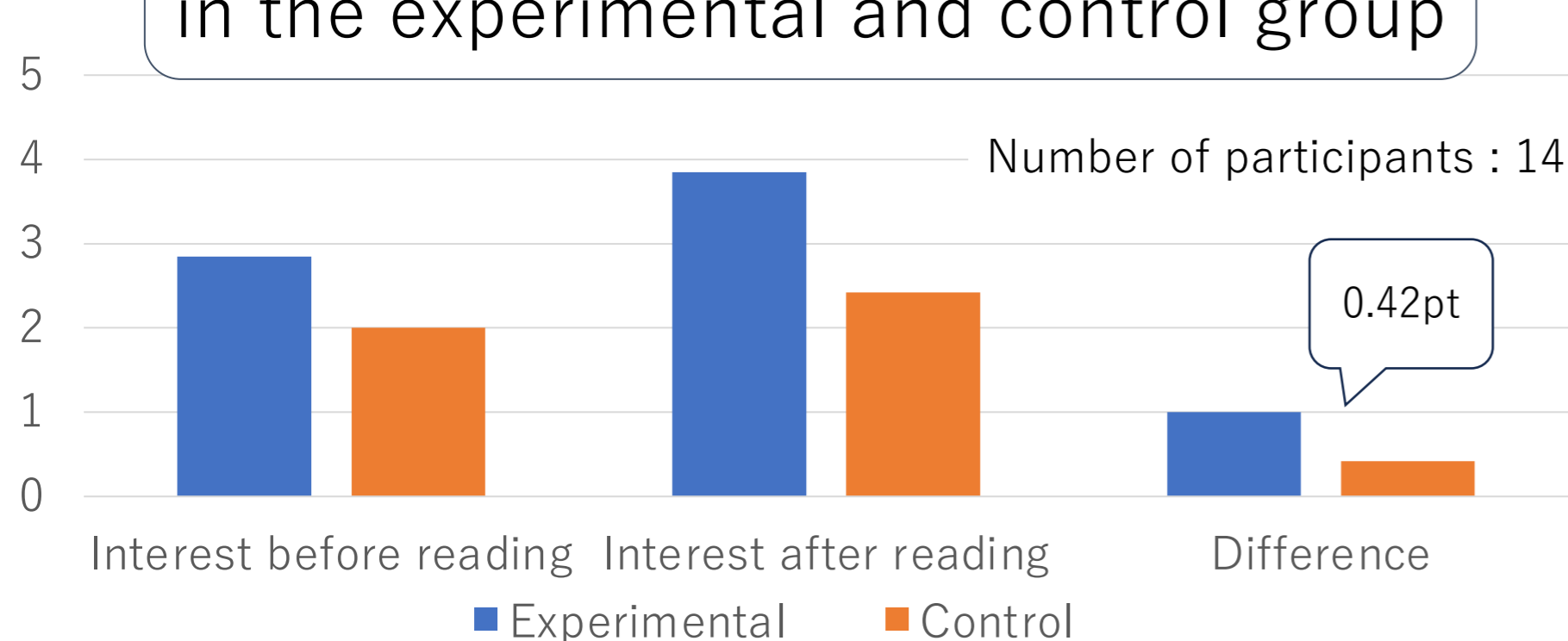
*1 : <https://ai-tanteki.com/>

3. Evaluation Experiments

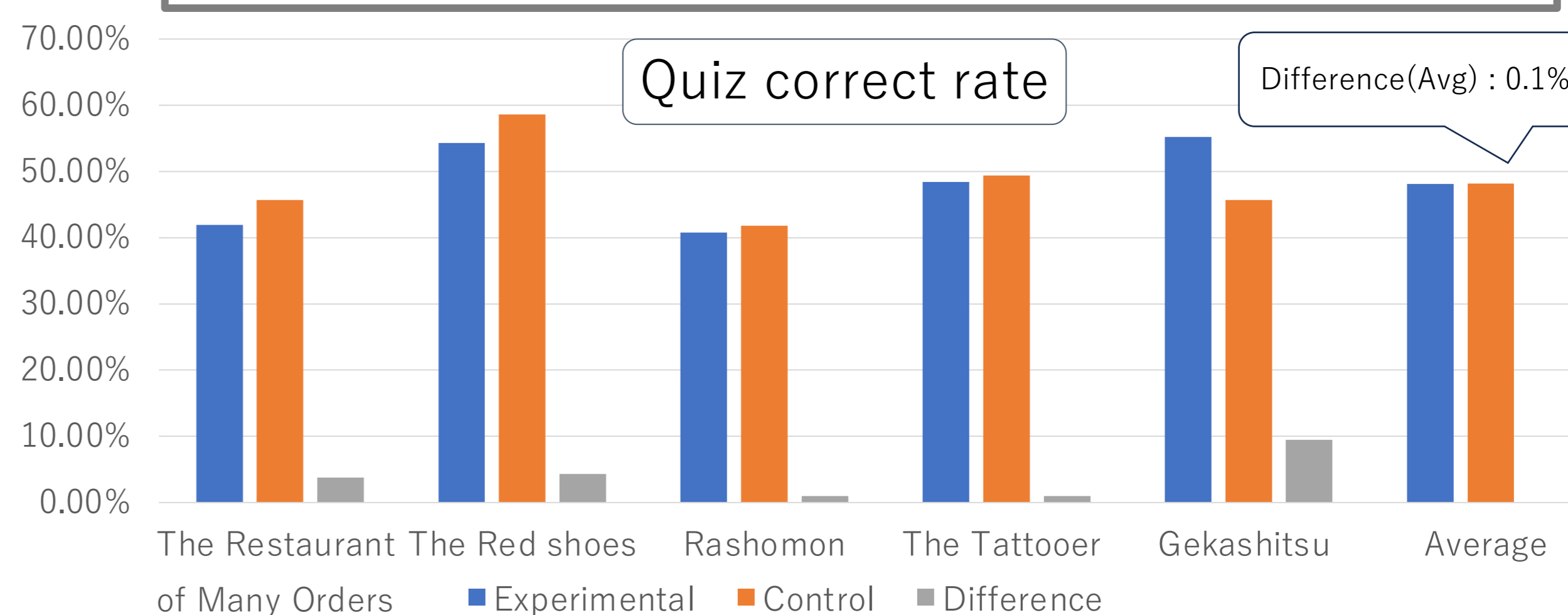
Evaluation methodology

1. Compare changes in user interest and see if the interface stimulates interest.
2. Based on quiz correct rate, see if summarizing affects comprehension of the reading content.

User interests change in the experimental and control group



The comprehension of the novel's content was similar between reading the original text and its summary.



4. Conclusion

We Implemented a reading support interface for novels with a summarization function and verified whether the summarization function can arouse reading interests while maintaining the comprehension of the novel's content.

We conducted experiments and found that the summary function could arouse users' reading interest while maintaining their understanding of the novel's content.