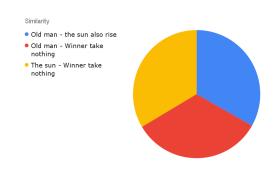
Using data to analy three of the Hemingway's books

This report will analyze *Oldman and the sea*, *The Sun Also Rises* and *Winner Takes Nothing* by using some low-code methods to show what these books are about and will present a comparison among these books.

These three books were written by Hemingway in the 1920s(*The Sun Also Rises*), 1930s (*Winner Takes Nothing*), and 1950s (*Oldman and the Sea*) respectively, but according to the Pie chart of similarity (right side), his overall writing style has not changed much.





this book focuses on family.

Lastly, there is a sentiment chart in which each books' starting and ending were tested and represented on the right. Through the obvious color contrast, *The Sun Also Rises* has the most positive tone from the starting to the ending of the whole book. Compared to the other two books, the result can be determined, *Oldman and the sea* would be the most negative book among these three.

Next are word

clouds which could show us some key phrases in the books that could help us to predict the content of the text, or roughly what the story is about, is equivalent to the introduction of a book, which can make people who have not read these three books understand the general content of the book. (From top to bottom: Oldman and the sea, The Sun Also Rises, Winner Takes Nothing.) We can see from the prominent words that the story told by Oldman and the sea is like the title, which tells the story of an **old man fishing**, and includes the words of shark, dolphins and other marine creatures, which makes it more certain that this book is about the story of the sea. The second picture shows the keywords related to The Sun Also Rises. Different from Oldman and the sea, there are names, and there are character verbs: said, know, went, and so on. It can be seen that the whole story revolves around the character's actions. The last one comes from the Winner Takes Nothing. The most prominent words are also character verbs such as said, asked and know, and some people's names. It's more important to note that there is no obvious character relationship word in the sun also rise. The word father can be found in this picture, so it can be inferred that the story of

