

### Assignment 3: Process Book

#### What do you want to achieve with the visualization?

I wish to do a text analysis on the common themes and associated words that appear in many European fairy tales. This visualization aims to illustrate how often certain themes appear in a collection sample of stories, allowing the viewer to visually compare the magnitude of values between words and themes.

#### What tasks do you want to support?

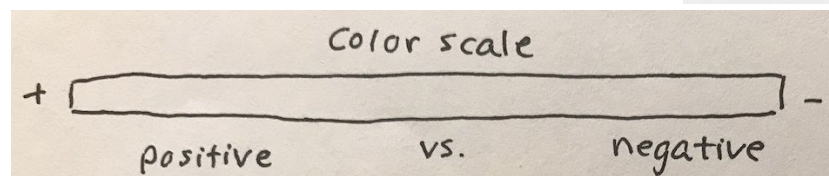
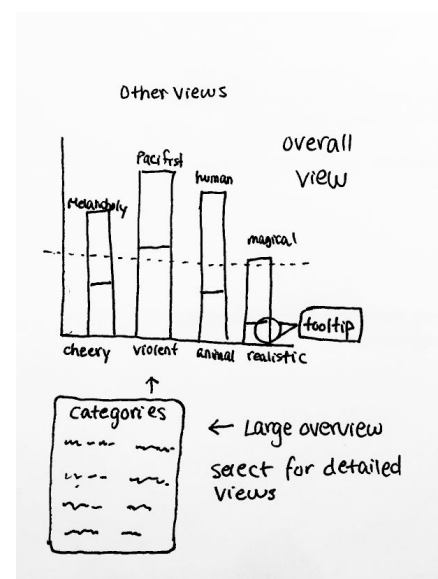
I wish to support selection, categorization (filtering and sorting), and coordination. The user should be able to view multiple perspectives of the data in addition to being able select a specific part of the visualization in order to gather more details about that specific part. Transitions and other animations may also be added to improve and clarify the presentation.

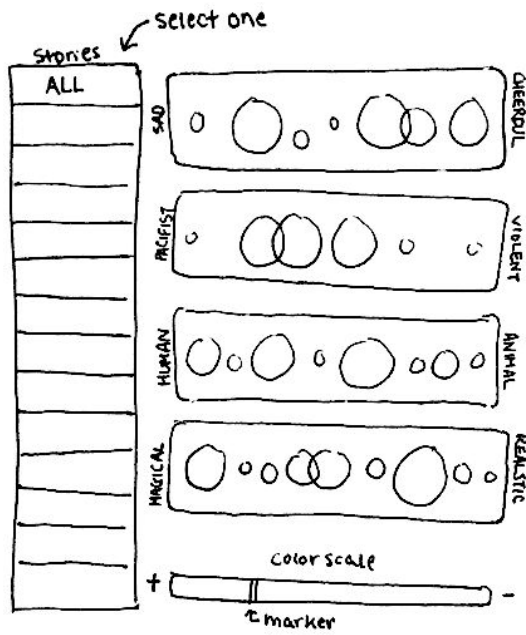
#### What designs will help you achieve these designs? Name at least two.

1. A categorized circular scatter plot with each point representing a value. Also, the size of the point would represent how prevalent that word was. Each word will be categorized based on what theme it belongs to the most, and placed on the visualization accordingly.
2. A bar-scatter plot hybrid visualization. There will be multiple horizontal bars with each end representing opposite values. The words (as points) would then be placed within these bars, their horizontal position depending on their individual values.

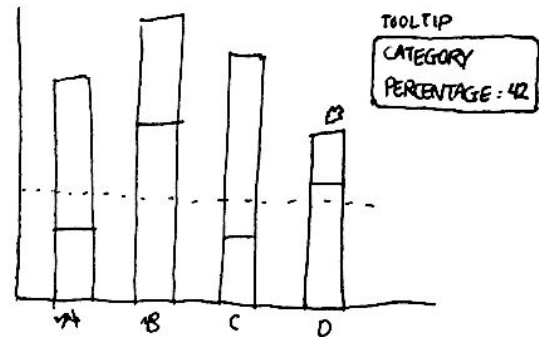
#### Sketches

[Multiple views associated with each one. These designs will be based off of all the stories given.]





## FOCUSED VIEW/ALTERNATIVE



CATEGORIES

- h. h. h.
- h. h. h. l
- h. h. h.
- h. h. h. h.
- h. h. h. h. h.

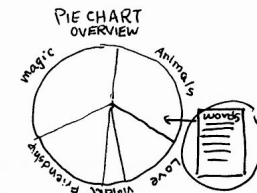
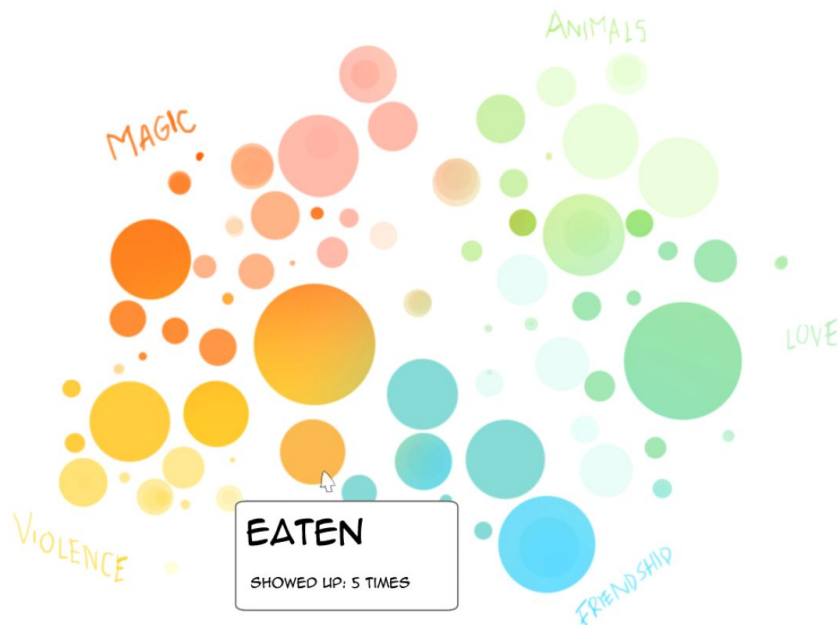
TOOLTIP

"WORD"

NUM of times: 15 times

Percentage: 50.26%

+ or - : Positive



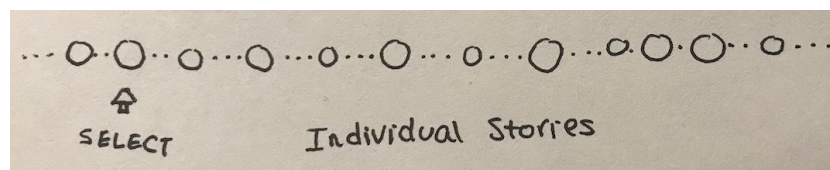
WORDS

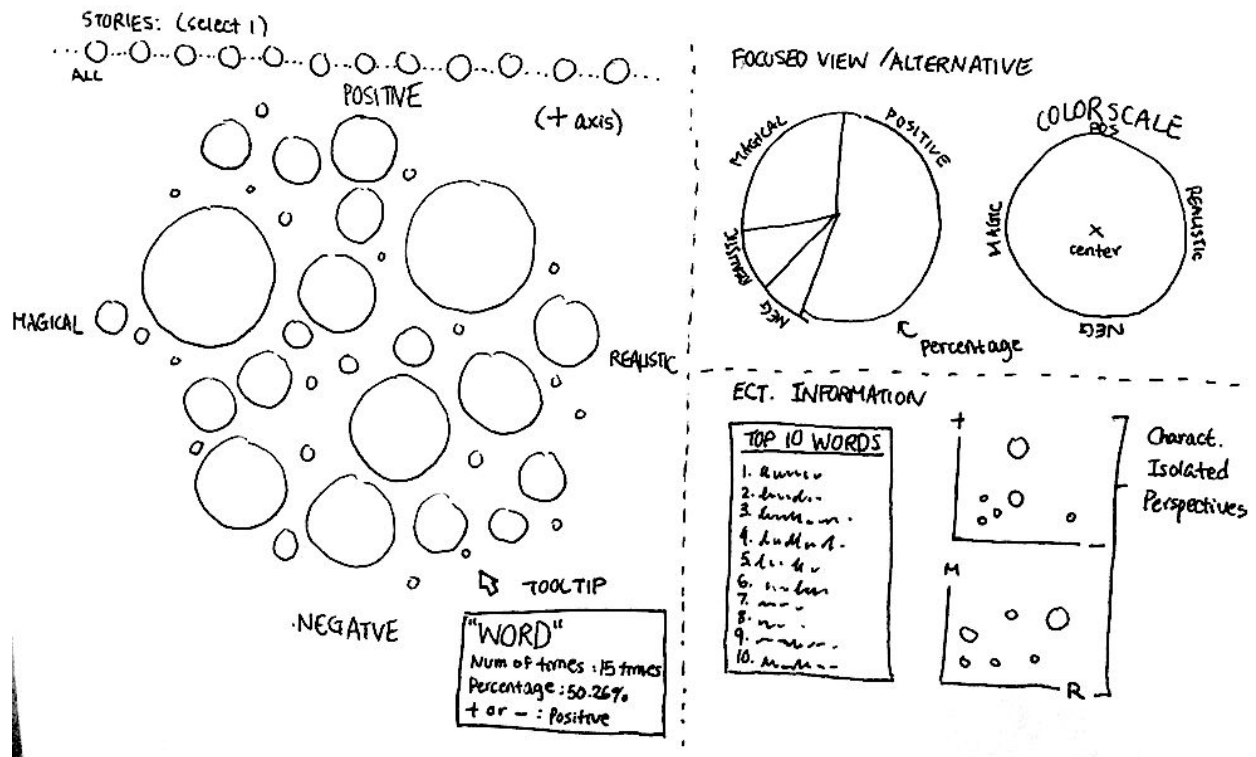
1. h. h. h.
2. h. h. h.
3. h. h. h.
4. h. h. h.
5. h. h. h.

← TOP 5

Eaten

categories?





## Final Design

A mix between the first and second designs ended up being chosen because it manages to show the data clearly in addition to being more straightforward to implement than the first design. The focused views, now translated to be shown simultaneously to when a story is chosen, also manage to show the data in different perspectives more relevant to the master chart itself, which is important to illuminate the correlations in isolated parts of the data. Overall, its purpose may also be more noticable and practical. However, it is also important to know that the design and scatter plot had to undergo revisions given the limitations of the word screening API being used, especially since it proved to be rather difficult to associate values between words and translating that onto an x and y coordinate scatterplot.