Summary

This project visualizes the relation between titanic passenger survival with other available variables in the titanic dataset. The tested features are gender, class, age, fare and city of embarkation. The tool used for visualization is Tableau.

Link to 1st version:

https://public.tableau.com/profile/yusra.alonaizan#!/vizhome/TitanicStory_6/Story3

Link to 2nd version:

https://public.tableau.com/profile/yusra.alonaizan#!/vizhome/TitanicStory2_0/Story4?publish=yes

Design

The following explain the design choices of each chart.

Chart 1: gender

In order to show the relationship between the gender and the passenger survival, I used a pie chart faceted by survival status. The size of the pie chart represents the survival status group size in order to compare each group size and visually show the percentage. I used the standard color encoding for the gender in order to communicate the difference of gender in each survival status group.

Chart 2: title

I chose to size-encode the title group count to directly show the pattern between the title and the passenger survival. Also, I used shades of red for female titles and shades of blue for male titles. I used other colors for titles that are associated with both males and females.

Chart 3: class

To show the relationship between the social class and passenger survival, I used a pie chart faceted by class and color encoded with survival status. I also faceted the graph by gender to show the distribution of the relationship across the two genders.

Chart 4: age

I used Gannt chart to show the distribution of age. To avoid overpotting, I encoded the rectangle size with the number of observations that have the same age. I used three shades of blue to illustrate the order of the class.

Feedback

I got 2 feedbacks that I combined in the following text:

Gender:

- There are two Gender narratives, maybe if you added more description of what you are trying to show from these visualizations instead of just one word.
- Why did you display gender class twice?

The purpose of me sharing two graphs versions that shows similar information is to check which version is favored by the reviewer. After getting the feedback, I settled on one and made the changes on it.

Title:

- Can't you display the size of the bubble based on the percentage of survival/non-survival. Because there is no notable change on office and royalty because they're small in number to begin with. Also royalty is split in half in yes which makes it harder to understand for me

I removed the gender split in the bubble. I also used the percentage instead of count to encode the size of the bubble.

Social class:

- Maybe if you switch the axes so the visualization would fit the screen without scrolling down.

I followed the reviewer suggestion by switching the axes and changing the layout.

Age:

- It looks nice but it is hard to get specific of information from it. For example, you provided Sex, Survival and Fare but I could not find how many women who paid high fare and survived, maybe adding filter for all the variables would be a good idea.
- For age, don't you have another variable instead of fare as an x-label? Can you at least remove the 2 outliers on the right?

I followed the reviewer suggestion by adding a filter and removing the fare variable. I also changed the chart type to adapt with the changes. I also showed the toolbar to enable the user to zoom in for more details or out for more general view.

Resources

http://onlinehelp.tableau.com/current/pro/desktop/en-us/stories.html