

Titanic Data Visualization

Summary

This project involves visualization of Titanic survival using passengers data such as class, gender and age group. Created total three graphs:

1. Titanic survival by class: The First class passengers have the highest survival rate among all the different classes.
2. Titanic survival by age group: The Children belonging to the age group 0-15 have the highest survival rate.
3. Titanic survival by class and gender: The First class female have maximum survival rate and the third class male have minimum survival rate.

Design

- Chart type: Passengers information is defined in different categories. Thus bar charts are best way to see the survival trend.
- Layout: Stacked bar chart layout is used to visualize two survivorship data status.
- Legend: Data are represented in the ratios, the stacked bar chart of y-axis are same for all the categories so, legend are moved to the right hand side of the chart.
- Visual encodings: X-axis represents different categories of information and y-axis represents ratio of passengers. Sequential colors are used to differentiate between 'survived' and 'perished'. Shape of the stacked bar chart is rectangle.

Feedback

1.

Color in the stacked bar chart can be improved. The color which are used are good but more conventional and sequential color can improve the visualization.

2.

Reduce the width of stack bar chart for the second graph (Titanic survival rate by age group) so that it can be more clearly represent the age group.

3.

To display the likelihood of survival, it is best to use ratios of the survival, so change the count to ratio in the chart 1 and chart 3. It would be best to use 'perished' instead of 'dead' as this tense matches that of 'survived'.