

The Tragic Titanic Accident Survival Data Visualization

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Summary

"RMS Titanic (/taɪˈtænik/) was a British passenger liner that sank in the North Atlantic Ocean in the early morning of 15 April 1912, after colliding with an iceberg during her maiden voyage from Southampton to New York City." Titanic was the largest ship afloat at the time it entered service and was one of three Olympic class ocean liners operated by the White Star Line. The ship carried 2,224 passengers and crew aboard. "Titanic only carried enough lifeboats for 1,178 people—slightly more than half of the number on board, and one third of her total capacity." Titanic left Southampton and made two stops before heading west to New York. It stopped at Cherbourg, France then at Queenstown, Ireland. (Wikipedia). In this project, we only have a sample of 891 of the 2,224 passengers and crew aboard.

We want to discover if Ticket class, gender or age has any effect on survival?

We found that gender and ticket class had a good effect where age groups had a small effect.

Design

I decided to use a histogram for the age distribution, a pie chart for categories and bar chart for comparison.

- In the two pie charts I have, I was asked to add the count for each category, so I added the count for each category and the total count and changed the graph to a doughnut charts to use the middle circle for the total count.
- Filtered any null data point.
- Changed Titles to better titles.
- Changed colors.
- Removed y-axis header for some graphs.
- Changed some variable names. "First – Upper" -> "First Class".
- Added sheets names.

Feedback

For adding count for each category to pie charts, "Counts can be very important in discerning significance. Think about it this way - what is more significant, 3/4 or 75/100?"

For variable names, and color, "Good variable names can make it easier for interpreting the visualization as well as colors."

For titles, y-axis, sheets names, and null data points: What I understood from my sisters, who was one of the feedbackers, is that I can make my titles better as well as removing y-axis since there are labels on the bars and so y-axis is redundant. She asked me to remove null data point because it is distracting and the viewer doesn't need to see it. She asked me to add sheets names to easily navigate through the workbook.

I am happy with what I have done and I got positive feedback on the final visualization, so I am submitting my project.

Resources

RMS Titanic, Wikipedia. Last edited on 14 June 2017, at 00:13.

URL (https://en.wikipedia.org/wiki/RMS_Titanic)

Tableau. URL (<https://www.tableau.com/>)

Udacity. URL (<https://www.udacity.com/>)

URLs

First sketch: [Link](#)

Final visualization: [Link](#)