

Titanic Data set – Data Visualization

- Vivek R

Before feedback:

<https://public.tableau.com/profile/vivek5596#!/vizhome/TitanicDataStory-V-1/Story2?publish=yes>

After feedback:

https://public.tableau.com/profile/vivek5596#!/vizhome/TitanicDataStory_0/Story1

After Review:

<https://public.tableau.com/profile/vivek5596#!/vizhome/TitanicDataStory-Updated/Story1?publish=yes>

Summary

The sinking of the RMS Titanic is one of the most infamous shipwrecks in history. On April 15, 1912, during her maiden voyage, the Titanic sank after colliding with an iceberg, killing 1502 out of 2224 passengers and crew. This sensational tragedy shocked the international community and led to better safety regulations for ships.

One of the reasons that the shipwreck led to such loss of life was that there were not enough lifeboats for the passengers and crew. Although there was some element of luck involved in surviving the sinking, some groups of people were more likely to survive than others, such as women, children, and the upper-class.

This visualization shows the demographics of 891 of the 1317 passengers aboard the Titanic. The main area we are focusing on is gender, class, port of Embarked and age.

This visualization objective is to, shows complete of analysis of what sorts of people were likely to survive.

Design

Dataset information

This dataset is taken from [Kaggle](#) website.

As we are focusing only on people's status i.e whether they are alive or dead which we will be comparing against the total records.

In this we are considering only 4 factors they are

- 1) Age group
- 2) Passenger class
- 3) Embarked point
- 4) Sex

In the first Slide, it gives the idea about the data and the survival and death percentage and in the later slides the impact of each factors followed by us will be analyzing who has the highest and least survival percentage combining all the factors.

*In this we will exclude the values having Null.

In this project, we are mainly concentrating on comparisons so mostly I preferred bar charts. Which explains the comparisons easily.

In visualization color plays an important role which makes the viewers attract. In order to maintain consistency, I have mostly used the same color throughout the story.

Dead: red

Alive: Light Green

Male: Orange

Female: Blue

Filters:

- 1) As we are mainly concentrating on Comparison of survival chance I have made **People's status as One of the primary filter which is categorized into survived and dead people.**

- 2) AGE bin: In order to check which age group has the highest and least survival rate so I have created bins size of 10 and group all the records based on it.

Feedback:

What do you notice in the visualization?

The relationships between the attributes were clearly explained. And the objective of the story was achieved by the end of story.

What questions do you have about the data?

Data does not have any information about the crew. Adding data about the crew also gives a complete picture of the survival chance

What relationships do you notice?

- As you see comparing classes the survival rate increased as the class decreases. Class 3- people have less survival rate when compared to class-1
- Considering from 20 group age bin as the age increased the survival rate and death rate decreased. Which says as the age increases the number of people belong to that group on the Titanic also decreased.

What do you think is the main takeaway from this visualization?

The starting slide in the story was a simple slide for the count of people between survived and dead passengers to the total records which does not add any value to the story.

Is there something you don't understand in the graphic?

The visualization is clear and specific.

Changes after the feedback:

- 1) Removed the slide which is not necessary,
- 2) Changed the color for survived and dead people so as to maintain consistency
- 3) Changed the tags to each slide as per the requirements so as to look like a complete story.

Info About Data:

Embarked points

C = Cherbourg, Q = Queenstown, S = Southampton

References:

- Titanic Wikipedia Entry https://en.wikipedia.org/wiki/RMS_Titanic
- Titanic Facts <http://www.titanicfacts.net/titanic-passengers.html>
- <https://classroom.udacity.com/nanodegrees/nd002/parts/38e740f3-bea2-43cb-a474-1de2abe3ec4b/modules/acbe4df1-d046-40fd-a2e5-8e1a777c339f/lessons/820d84b6-974f-4531-b4da-371de2f91e79/concepts/398460f5-2f43-46ee-9fef-487c3ea46289>